

COMPETITION VENUES

*Technical Manual on
Venues - Design Standards
for Competition Venues*





Technical Manual on Venues – Design Standards for Competition Venues

NOVEMBER 2005



International Olympic Committee

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I. Global Reference Data

Name **Technical Manual on Venues – Design Standards for Competition Venues**

Date/Version November 2005

Note This manual is part of the IOC Host City Contract. It will often refer to other IOC documents and manuals in an effort to synthesize information under specific functional areas.

In order to provide Games organisers with a complete picture of a Games function, both Olympic and Paralympic information is integrated within the technical manuals. General information may apply to both Olympic and Paralympic Games even though not explicitly mentioned, while Paralympic-specific information is identified as such.

Disclosure

The material and the information contained herein are provided by the IOC to be used for the sole purpose of preparing, organising and staging an edition of the Olympic Games. This material and information is the property of the IOC and may not be disclosed to third parties or the general public, whether in whole or in part, without the prior written approval of the IOC. Sharing of such material and information is only permitted, under the condition of strict confidentiality, with third parties assisting in the preparation, organisation and staging of an edition of the Olympic Games.



II. Changes from Previous Version

List of Changes The following information and table indicate the updates/changes that were made to the July 2004 version of the Design Standards for Competition Venues.

Winter Games

In this version we have added information related to Winter Games venues and including a venue design matrix for each Winter Games Competition Venue.

Minor grammatical and/or word changes are not noted, as they do not affect the content of the information originally provided and serve only to facilitate the overall comprehension of the document.

Summer - Updates to the Competition Venue Matrices

The post- Athens review of the Design Standards for Competition Venues was completed in collaboration with all Summer International Federations (IFs). The Athens Games presented the opportunity to observe many venues in operation and for the IF to evaluate the space/areas provided at the venue for sport functions. Based on the post-Athens review and feedback received, the following information in the matrices has been adjusted:

Updates/Changes

- Updates/changes were performed for all venues, specifically to the sports operation & IF areas/space

Types of Updates/Changes

- Space changes in size/square metres
- Addition of new spaces
- Deletion of spaces.

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II. Changes from Previous Version, Continued

Winter Competition Venue Matrices

The first version of the design standards matrices for winter competition venues has been developed in collaboration with each Winter International Federation (IF).

Winter Competition Venues

Chapter 3.5, venue matrices have been completed for the following venues:

- Biathlon
- Bobsleigh/Luge/Skeleton
- Curling
- Ice Hockey
 - Ice 1
 - Ice 2
- Figure Skating and Short Track Skating
- Speed Skating
- Ski Jump
- Cross Country Skiing
- Alpine Skiing
- Freestyle Skiing
- Snowboard

Chapter and Name		Change
IX	Link to OCOG Phase	<ul style="list-style-type: none">• The Link to OCOG Phase will be included on completion of the Technical Manual on Venues.
XII	Master Schedule Reference	<ul style="list-style-type: none">• The Master Schedule Reference will be included on the completion of the Technical Manual on Venues.
1.1	Venue Area: <ul style="list-style-type: none">• Venue Parking/Principles• Venue Area Diagram	<ul style="list-style-type: none">• Positioning of Public Domain areas is more specific.• Winter text has been added for venue parking areas

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II. Changes from Previous Version, Continued

Chapter and Name		Change
1.2	Venue Entry and Exit <ul style="list-style-type: none"> • Walking Distances • Open/Close of Constituent Entry/Exit Points • Open/Close of Vehicle Entry/Exit Points • Number of Magnetometers 	<ul style="list-style-type: none"> • Winter text has been added for walking distances and wheel chair access to the venue. • Adjustments made to constituent closing of entry/exits points • Added new text for open/close of vehicle entry points • Winter text added for magnetometers • Queuing times – added new information regarding the inclusion of entertainment/activities queuing areas.
1.3	Front of House Operations Impact on Design: <ul style="list-style-type: none"> • Introduction • Concourse Areas • Medical Services Area • Shade/Shelter/Rest • Spectator Services • Vehicle Flows 	<ul style="list-style-type: none"> • Text amended to provide precision to the « FOH three main sections ». • Winter text added for concourse areas • Winter text added for parking & emergency vehicle access • Winter text added for Shade/Shelter/Rest • Winter text added for snow storage • Added new text for vehicle flows in the venue
1.4	Back of House Operations Impact on Design: <ul style="list-style-type: none"> • Compound Areas Diagrams • Venue Back of House • Technical Officials Flow • Olympic Family Flow • Workforce Flow Diagram 	<ul style="list-style-type: none"> • Winter text added for compound areas • The positioning of the Secure Perimeter is clearly defined. • Tribune Seating replaced with Reserved Stands. • TD (Technical Delegates) Work Area » replaced by TO (Technical Officials) Work Area. • The constituent group breakdown of the Olympic Family (IOC/IF/NOC) removed from diagram. • The location of the Workforce Centre re-positioned.
1.5	Seating and Standing Areas: <ul style="list-style-type: none"> • Introduction • Seating Sections • Seat Sizes • Reserved Stands • Standing Areas • Sight Lines 	<ul style="list-style-type: none"> • The word « typically » added to the last sentence. • Winter text added for seating sections • « In depth » added to the text following the Principles bullet points. • Text added regarding adding additional seats during preliminary rounds • Winter text added for standing areas • « And/or walls of FOP» added to last Principles bullet point. • Winter text added for sight lines

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II. Changes from Previous Version, Continued

Chapter and Name		Change
1.6	Venue Diagrams: <ul style="list-style-type: none">• Venue Interior	<ul style="list-style-type: none">• « Tribune Seating » replaced with « Reserved Stands ».
1.7	Lighting, Power, and HVAC: <ul style="list-style-type: none">• Introduction• HVAC Principles•	<ul style="list-style-type: none">• « Ventilation » added to HVAC definition.• « Cold » added to second Principles bullet point.• All information was updated
1.8	Security Impact	<ul style="list-style-type: none">• Winter text added
1.9	Safety of the Venue	<ul style="list-style-type: none">• Winter text added
1.10	Look of the Games and Signage: <ul style="list-style-type: none">• Signage Principles	<ul style="list-style-type: none">• Terminology definitions in table amended.• Winter text added
1.11	Venues for Sustainable Development	<ul style="list-style-type: none">• New text added for outdoor venues occupation of public lands.
3.0	Overview <ul style="list-style-type: none">• Contents	<ul style="list-style-type: none">• Topic order rearranged
3.4	Number of Competition Venues & Venue Gross Capacity <ul style="list-style-type: none">• Variations in Number of Venues• Venue Gross Seating Capacity• Structure of Matrices	<ul style="list-style-type: none">• Winter text added• Gross Seating Capacity for Winter & Summer added• Chapter restructured into a table format with new text added for compound areas – setbacks.• Baseball and Softball venue capacities removed.
3.5	Venue Matrices	<ul style="list-style-type: none">• Baseball Venue Matrix has been removed.• Softball Venue Matrix has been removed.



III. Related Documents

List

The documents listed below should be considered complimentary reference sources to the Technical Manual on Venues.

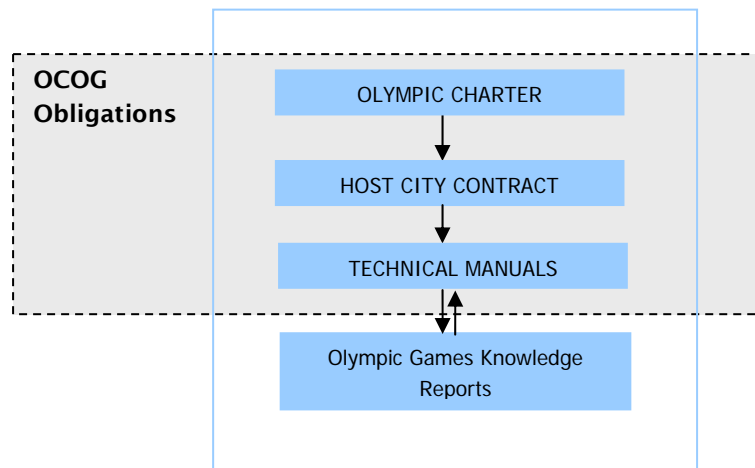
- Olympic Charter
- Host City Contract
- Accreditation and Entries at the Olympic Games – User’s Guide
- Technical Manual on Accommodation
- Technical Manual on Media
- Technical Manual on Medical
- Technical Manual on Workforce
- Technical Manual on Sport
- Technical Manual on Transport



IV. Information Road Map

Introduction The aim of this section is to explain how the Technical Manuals fit into the general context of the various IOC guidelines and supporting documents. The Technical Manuals are part of an information chain that needs to be clearly understood by all Games organisers including OCOGs, government entities, and partners, as well as by bidding cities. This will enable them to understand their obligations and distinguish them from the recommendations and advice provided through the Olympic Games Knowledge Programme.

Presentation The diagram below illustrates the “information road map” and the position of the Technical Manuals within the context of other related documents. Each of the documents is described in more detail on the following pages.



Continued on next page



IV. Information Road Map, Continued

Olympic Charter (OC) The Olympic Charter governs the organisation and operation of the Olympic Movement, and stipulates the conditions for the celebration of the Olympic Games. It is the codification of the:

- Fundamental Principles
- Rules
- Bye-laws

as adopted by the IOC. Thus, the Olympic Charter represents the permanent fundamental reference document for all parties of the Olympic Movement. It can only be modified with the approval of the IOC Session. The Olympic Charter is updated periodically and therefore, the only applicable version is the most current version.

Host City Contract (HCC) The Host City Contract sets out the legal, commercial, and financial rights and obligations of the IOC, the host city and the NOC of the host country in relation to the Olympic Games. The Host City Contract represents the written agreement entered into between the:

- IOC, on the one hand
- Host city and NOC of the host country, on the other hand

In case of any conflict between the provisions of the Host City Contract and the Olympic Charter, the provision of the Host City Contract shall take precedence.

The Host City Contract is signed by the IOC, the host city and the NOC of the host country immediately following the announcement by the IOC of the host city elected to host the Olympic and Paralympic Games. As such, the Host City Contract is specific to each edition of the Olympic Games, and may vary from Games to Games due to changes and modifications.

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IV. Information Road Map, Continued

Technical Manuals

The Technical Manuals annexed to the Host City Contract form an integral part thereof. They contain the following information regarding a given subject/theme of Olympic Games organisation:

- Detailed technical obligations
- Planning information
- Procedures and processes
- Proven practices

Thus, they provide the technical requirements and information for the implementation of the key functions by the OCOGs and their partners. The IOC may amend the Technical Manuals and update them as necessary to include the most recent and relevant information for the Games organisers. Therefore, the only applicable version of any Technical Manual is the most current version. The English version of the manuals shall prevail.

Olympic Games Knowledge Reports (Formerly called "TOK Guides")

The Olympic Games Knowledge Reports* represent a description of practices and experiences from previous Games organisers, referring to a given local host city context and environment.

The reports contain:

- Technical and organisational information from the OCOG's point of view referring to a given edition of the Olympic Games. This can include practice examples, scale and scope data, as well as information on resources, planning, strategy and operations.

They do not contain:

- Legal obligations
- IOC recommendations

Once edited after each edition of the Olympic Games, the Olympic Games Knowledge Reports are no longer modified. For this reason, there is one version of reports that is specific to each edition of the Olympic Games.

** These reports are part of the Olympic Games Knowledge Programme put in place by the IOC to facilitate the transfer of Olympic Games Knowledge and assist in the exchange of information from one Olympic Games to the next. The programme comprises several components (written information, workshops etc.) and features the Olympic Games Knowledge Reports as one of its key elements. These reports can be found on the Olympic Games Knowledge Extranet.*



V. Olympic Games Study

Introduction

This section provides an introduction to the work undertaken by the IOC that directly impacts Games preparation, operations, and long-term sustainability. Therefore, it is crucial for the reader of this manual to understand the general context and philosophy of the IOC, which will help adopt the mindset of cost consciousness and continuing improvement introduced by the IOC. Detailed technical recommendations from Olympic Games Study have been incorporated directly in the manual-specific content.

Games Study Commission

The Olympic Games Study Commission was established by IOC President Jacques Rogge to analyse the current scale and scope of the Olympic Games and the Olympic Winter Games. The Commission's mandate was to propose solutions to manage the inherent size, complexity and cost of staging the Olympic Games in the future, and to assess how the Games can be made more streamlined and efficient.

The decision to undertake this work recognises the IOC's desire to maintain the position of the Games as the most important sporting event in the world while, at the same time, balancing the need to keep the impacts associated with Games organisation under reasonable control. In particular, the IOC addressed measures to ensure that Games Host Cities do not incur greater expenses than are necessary for the proper organisation of the Games.

The IOC ensured that proposed measures should not undermine the universal appeal of the Games, nor compromise the conditions which allow athletes to achieve their best sporting performance, and which allow the media to transmit the unique atmosphere and celebration of the Games to the world.

The Commission presented its complete report to the IOC Session in Prague in July 2003. At this meeting, the general principles and detailed recommendations were adopted as well as the calendar of dates for the implementation of these recommendations.

The IOC Olympic Games Department owns the task of managing the detailed implementation of all recommendations. The objective is to integrate the recommendations and principles of the study into the general IOC guidelines and Games management processes, so that future Games organisers will automatically work from this basis. At the same time, it is key that the organisers understand and adopt its general philosophy and guiding principles.

Continued on next page



V. Olympic Games Study, Continued

Main Recommendations of Games Study Report

The Olympic Games Study report lists 117 detailed practical recommendations, which have been structured according to five major themes. Please note that the detailed recommendations have been incorporated in relevant parts of the Technical Manuals. Detailed information can be found in the complete report; however, the following represents a general explanation of the five major themes:

1. Games Format

The IOC should re-affirm the following Olympic Charter principles:

- The Olympic Games are awarded to a single Host City
- The duration of competitions shall not exceed 16 days
- Only sports practised on snow and ice may be considered as winter sports

2. Venues & Facilities

Minimise the costs and maximise the use of competition, non-competition and training venues and guarantee an efficient usage in terms of time, space and services, while taking into consideration the needs of the Olympic Family.

3. Games Management

Recognising the fact that the Games are evolving, the IOC should clearly define its role and responsibilities within the Olympic Movement vis-à-vis all involved parties with the objective of improving Games governance. The OCOG should adopt more effective business processes with the objective of creating a more efficient and coordinated Games management through work practices that maximise all resources.

4. Number of Accredited Persons

The IOC should establish appropriate guidelines and find ways of containing (and ideally decreasing) the overall number of accredited persons on the occasion of the Games. The focus should be on groups that have experienced the most dramatic increases, those that have more flexible rules and those that do not have any maximum numbers.

5. Service Levels

Stop the ever increasing "benchmark inflation" that arises from comparisons of services provided at past Games or other major events. Service levels should be of a reasonable standard and be adapted to each client groups' real needs. Acceptable risk levels must also be addressed with some key stakeholders.

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V. Olympic Games Study, Continued

Games Debriefing & Post-Games Analysis

Games Debriefing

Following every edition of the Games, a formal debriefing is conducted with the participation of the following:

- IOC
- OCOG having just organised the Games
- OCOG to organise the subsequent edition of the Games in four years time

The debriefing takes place within months immediately following the Games, and in the city of the next OCOG. At this time, a high-level analysis is conducted on the strategy, planning and operations of that specific edition of the Games, with the intention of passing on key conclusions and recommendations for the next organisers to improve the delivery of the Games.

Post-Games Analysis

Based on the various analysis, reports, and observation of each Games edition, the IOC gathers all relevant information and presents a final summary report. Within this report, the IOC proposes the major policy changes and key actions necessary to implement improvements for future Games. Following the necessary approval, these key conclusions are adopted and integrated into the IOC guidelines, forming the framework for future Games organisers.

Olympic Games Global Impact (OGGI)

In recognising the importance of sustainable development and social responsibility, the IOC launched the OGGI project with the objective to:

- Measure the global impact of the Olympic Games
- Create a comparable benchmark across all future Games editions
- Help bidding cities and future organisers identify potential legacies to maximise the Games' benefits

OGGI takes into account the specificities of each Games and related host city context, and covers economic, social and environmental dimensions. The main OGGI report forms part of the Official Report to be produced by the OCOG after each Games, and therefore is an official requirement to be fulfilled by each Host City.

The OGGI project allows for the IOC to measure the long-term implications of Games organisation, in order to analyse the global impact of the Games on a given host city. Based on the findings, the IOC integrates the appropriate changes to maintain the long-term viability and success for the Games in keeping with the ideals of the Olympic Movement.

Continued on next page



V. Olympic Games Study, Continued

Key Messages

- As a responsible organisation, the IOC wants to ensure that host cities and residents are left with the best possible legacy in terms of venues, infrastructure, environment, expertise and experience.
- Bigger does not necessarily mean better and higher expenditure does not necessarily guarantee the quality of the Games. The IOC made clear that excessive or unjustified costs and infrastructure could even be counterproductive.
- Games Study should involve the commitment and participation of all Olympic stakeholders, as the improvements will ultimately be to their benefit as well. The notions of "teamwork" and striving for the same goal are key in this context.
- It has to be ensured that the underlying philosophy and conclusions with regard to the size and complexity of the Olympic Games are widespread, understood, and properly assimilated within the Olympic Movement and beyond.
- No single recommendation can provide a solution, but the sum is reflective of an attitude and mindset that should be adopted by all parties of the Olympic Movement.
- Underpinning this approach, the IOC has strengthened its support and collaboration with the Games organisers through, for example, enhanced Games management processes, and a strong transfer of knowledge programme to provide assistance and advice as needed.



VI. Introduction

Mission The mission of the Technical Manual on Venues - Design Standards for Competition Venues is to provide prospective, bidding and current Olympic Games Organising Committees (OCOGs) with planning standards for the design of Olympic competition venues.

Objectives The IOC recognises that competition venues are a critical Olympic Games success factor and that expenditure on venue development comprises a high percentage of a total Games budget. Therefore, in developing the Design Standards for Competition Venues, the IOC's objectives are to:

- Assist prospective, bidding and current Olympic Games Organising Committees to understand Olympic venue design standards
- Ensure stakeholders' technical requirements are understood and respected
- Control unnecessary growth and subsequent cost
- Assist Organising Committees to understand stakeholder involvement in venue design
- Assist stakeholders to understand their involvement in venue design
- Ensure appropriate input and decisions to Olympic venue design
- Improve delivery of Games venues
- Help distinguish between Olympic and legacy venue needs
- Allow planners to assess particular land areas and existing venues to determine their potential for Olympic Games use.

Target Audience The target audience for the Design Standards for Competition Venues is:

- Prospective, bidding and current OCOGs and their partners involved in venue design and development
- Stakeholders involved in venue design and development

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VI. Introduction, Continued

- Context** A key recommendation regarding Olympic venue design was that the IOC should develop venue design standards to prevent over-building, over-servicing and over-spending at the Olympic Games. It was noted that these standards would be a critical reference tool for all stakeholders.
- The Design Standards for Competition Venues are the first part of this extensive project.
- Method** The Design Standards for Competition Venues has been developed by the International Olympic Committee (IOC) in conjunction with the Association of Summer Olympic International Federations, International Federations, International Paralympic Committee (IPC), other stakeholders and venue developers and planners from previous OCOGs.
- Revisions** The Design Standards for Competition Venues is intended to be dynamic. It is not intended to set immovable standards for all future Olympic Games; rather, it recognises that as information changes and improves the document will need to be updated. It is anticipated that this document will be updated periodically, including the following:
- Each edition of the Olympic Games,
 - International Federation rule or policy changes that impact venue design,
 - IOC qualification system changes that impact venue design.
- Future revisions will be released accordingly with updated date of issue and version number.



VII. Executive Summary

- Objective** The objective of the Design Standards for Competition Venues is to provide a functional tool to be used as a resource basis throughout the planning and development process for all Olympic Sport Venues.
- Key Principles** Key principles relevant to venue design, which have also been reinforced by the IOC's Olympic Games Study Commission include the following:
- Share venues wherever possible according to technical feasibility and competition format and schedule
 - Adopt the following principles for venue selection:
 - Use existing venues with refurbishment if needed
 - Build a new venue only if there is a legacy need, ensuring flexible use if possible
 - If there is not a legacy need, seek a temporary solution
 - Review and rationalise gross venue capacities
 - Develop venues in clusters
 - Maximise temporary installations over permanent construction
 - Develop functional area operational standards and service levels for venues and constituent groups to educate and guide OCOGs and to prevent over building, over-servicing and over-spending.
- Summary of Information** The information contained in each chapter covers the following areas:
- Chapter 1 – Venue Planning Principles
 - Chapter 2 – Venue Design Standards Matrices which includes the General Planning Principles & Design and Construction Principles
 - Chapter 3 – Explanation and Presentation of the Competition Venues Matrices



VIII. Technical Presentation

Introduction	The content of this manual has been organised into three chapters. The first is the written planning principles for venue design, the second, the detailed explanation of the venue design matrices and the third chapter comprises a matrix for each Summer and Winter Olympic competition venue outlining the design standards for all spaces in that venue.
Venue Planning Principles	Chapter 1 Defines the general and consistent levels of services to be provided to Olympic constituent groups and service partners that may impact competition venue design. The Venue Planning Principles chapter outlines the key design, construction and operational principles for the planning of competition venues.
Venue Design Standards Matrices	Chapter 2 Explains the content of the Venue Design Standards Matrices that have been defined for planning Olympic competition venues and provides the general principles as well as design and construction principles for venue design.
Competition Venues	Chapter 3 Presents the key aspects of competition venues and lists each specific competition venue presented in a matrix format. The following key aspects are presented: <ul style="list-style-type: none">• Number of competition venues and venue gross seating capacity• Spaces that are generic in size for all venues• Method of developing the venue matrices• Structure of the venue matrices
Limits X	All technical aspects of the field of play, sports equipment and sport-related subjects are not covered in this manual, but are addressed in the Technical Manual on Sport .



IX. Obligations

Introduction

The Design Standards for Competition Venues are not intended to set requirements or immovable standards for Olympic Competition Venue design. The design standards aim to provide a baseline for venue design for future Organising Committees of the Olympic Games.

In all cases, the standard identified should be considered in context with:

- An existing venue is being used, with spaces larger or smaller than those required for Olympic use,
- A new venue is being built, with legacy space requirements different to Olympic standards.

Continued on next page



IX. Obligations, Continued

**Host City
Contract (HCC)**
△ ×

The Host City Contract signed between the IOC and the host city is the framework that defines the rights and duties of two parties: the Olympic Family (represented by the IOC) and the organisers of the Olympic Games (represented by the City and NOC of the country):

Preamble J

WHEREAS, in contributing to the history of the Olympic Games, the City and the NOC understand the importance of presenting the Games using technology and facilities of an appropriately high standard at the time the Games are organised.

34. Olympic Venues

The capacity, contents, location, structure (permanent/temporary) and construction schedule of the Olympic venues proposed by the City and the NOC in their application to host the Games may not be modified without the prior written approval of the IOC, in consultation with the relevant IF or, in the case of modifications with regard to the Olympic Village, in consultation with the National Olympic Committee representatives on the IOC Coordination Commission. Further information is contained in the “Technical Manual on Venues - Design Standards for Competition Venues”, which forms an integral part of this Contract.

**Reference to
other Key
Principles**

For other key principles about venue design please also refer to the IOC’s Olympic Games Study report. A summary of relevant principles can also be found in the Executive Summary of this Technical Manual.



X. Glossary

Presentation This section defines the different specific terms used throughout this manual. Please note that this manual may also use the Olympic core terminology created by the IOC and which is usually delivery in combination with the complete set of all Technical Manuals. This core terminology comprises approximately 400 general terms, which are among the most used terms for the Olympic Games organisation. The following table gives a list and definitions of terms and acronyms used in this manual specific to the subject.

Term	Definition
A/C	Air conditioning systems or HVAC: heating, ventilation, and air conditioning systems.
Athlete Stand	At each sport venue an athlete stand is reserved for people accredited in certain categories.
Basis	The starting point or foundation for an idea or principle.
Broadcast Operations	A term that refers to the functions of the Host Broadcaster/Olympic Broadcasting Organisation (OBO). The OCOG may establish a functional area dealing with Broadcasting aspects.
Buffer Zone	The immediate area outside the secure perimeter of the venue (distance to be determined by security) that is still required to operate the venue successfully during the period of the Olympic Games.
CIS	Commentator Information System (CIS) provides real-time results information to broadcasters.
Closed Circuit Television (CCTV)	A multi-channel closed circuit television distribution system; used to distribute pictures of the events or other viewing requirements; available for viewing in office and technical areas.
Concourse	A large open space for the gathering or passage of crowds (e.g. spectators).
Constituent Flows	The designated routes or pathways for Olympic constituent groups in and around a venue. Normally, the OCOG has installed directionally signage or way finding signage at the venues for all relevant constituent groups.
E Stand	A seating area which access is authorised to the certain accredited categories (e.g. journalists, photographers).
Federation Stand	At each competition venue, a Federation Stand is reserved for people from the International Federation governing the sport being staged at that venue

Continued on next page



X. Glossary, Continued

Presentation (continued)

Term	Definition
Finance	The OCOG may establish a Financial Management functional area that should determine and maintain the framework for effective financial reporting and financial control over the OCOG's operations. Its primary objectives include the provision of timely and accurate financial reports, financial information and commercial advice to the OCOG Board, Executive Office and relevant internal and external committees.
Furniture, Fixtures & Equipment (FF&E)	Commonly referred to as FF&E in the building industry. In relation to the Games, this term refers mainly to furniture and equipment that are necessary in the Games venues.
HVAC	Heating, Ventilation and Air-conditioning systems.
Magnetometer / Mag & Bag	An electronic device that is used to detect metal objects. Used at the entry points of each venue for security screening purposes. The term "mag & bag" may be used in reference the security screening process; mag equals the magnetometer and bag is process of screening/searching a bag that a constituent may be carrying through the secure entry point.
MOU	Memorandum of Understanding
Official Stand	At each competition venue, an Official stand is reserved for people accredited in certain categories.
PABX	A private automatic branch exchange (PABX) is an automatic telephone switching system.
Principle	The fundamental source(s) or primary element(s).
RTDS	Real Time Display Systems (RTDS) provides real time data from the venue results systems (OVR) fed into venue cable television system (CATV) for display of specific event data required by sport operations on television units.
Reserved Stands	A dedicated seating area for accredited constituents viewing the competition.
RT Stand	At each competition venue, an RT stand is reserved for people accredited in certain categories (e.g. Host Broadcaster)
Stakeholder	May be defined in relation to management as anyone who has a stake or interest in an organisation.

Continued on next page







X. Glossary, Continued

Presentation (continued)

Term	Definition
Stand of Honour	At each competition venue, a Stand of Honour is reserved for people accredited in certain categories.
Venue Planning Principles	The key design, construction and operational principles for the planning of competition venues. These principles define the general and consistent levels of services to be provided to Constituent Groups and Service Partners, that impact on venue design.
Venue Secure Perimeter	The venue area established by the OCOG beyond which no person or vehicle may proceed without the appropriate vehicle permit, accreditation or ticket.

Icons

The following table provides definitions of the icons and colours used in this manual.

Icon and Colour	Type of Information
	Obligation
	Third party reference
 IPC	IPC Reference
	Cross-Reference

Disclaimer

Please note that these symbols as well as the grey background indicating OCOG obligations are used for illustration purposes to guide the reader through this manual, without however limiting the general validity and contractual character of this document.





1.0 → Venue Planning Principles

Executive Summary

Introduction This chapter provides the key design, construction and functional operating concepts for the planning of competition venues for both Summer Games and Winter Games. Each concept is defined by listing the key principle(s) and their source.

These planning principles define the general and consistent levels of services to be provided to constituent groups and service partners that impact venue design.

The text and tables in each section also include references to Winter Games Standards as needed to assist in defining the special requirements of Winter Games Venues.

Contents This chapter contains the following topics:

Topic
1.1 Venue Area Concept
1.2 Venue Entry and Exit
1.3 Front of House Operations Impact on Design
1.4 Back of House Operations Impact on Design
1.5 Seating and Standing Areas
1.6 Venue Diagrams
1.7 Lighting, Power and HVAC
1.8 Security Impact on Design
1.9 Safety of the Venue
1.10 Look of the Games
1.11 Venues for Sustainable Development
1.12 Paralympic Games



1.1 Venue Area Concept

Introduction The venue area is centred on the venue and encompasses the key elements surrounding the venue that should be considered during planning and designing.

Public Domain The designated area surrounding a Games site, outside the perimeter.

Principles

- Designated as such because its normal day-to-day operations are typically not sufficient to manage the anticipated Games impacts, therefore requiring additional planning and services by public agencies and authorities. These plans and services need to be integrated and coordinated with the design and operations of the venue.

Basis

- Precedent based on previous Olympic Games.

Buffer Zone The immediate area outside the secure perimeter of the venue (distance to be determined by security) that is still required to operate the venue successfully during the period of the Olympic Games.

Principles

- A buffer zone should be established around the perimeter of the venue in which only authorised or accredited persons or vehicles may proceed but without the security search/screening or inspection.
- Vehicle Permit Check Points will be established at venue access roads to control traffic flow of accredited/authorised vehicles that may proceed to the venue or other established zones within the buffer zone or inside the venue perimeter.

Basis

- Precedent based on previous Olympic Games

Continued on next page



1.1 Venue Area Concept, Continued

Venue Secure Perimeter

The venue perimeter area established by the OCOG beyond which no person or vehicle may proceed without the appropriate vehicle permit, accreditation or ticket.

Principles

- The secure perimeter defines the area controlled by the OCOG during the Games time period.
- A person(s) or vehicle(s) requires a designated level of security search or inspection prior to proceeding into the venue secure perimeter area.

Basis

- Precedent based on previous Olympic Games.

Venue Parking X

Each venue may establish designated parking areas for Olympic constituent groups during the Game time period.

Principles

- Spectator parking is normally not permitted at the venue due to the lack of space and vehicular congestion issues; a spectator transport system should be established by the OCOG to and from all competition venues from various points in the host city or other locations using the public transportation network.
- Allocation of accredited parking spaces is established by the OCOG (e.g. Athlete/Team, IF, Broadcast, Press, Workforce), in agreement with the IOC.
- Parking Area(s) may be secured.
- Winter Games: vehicle capacities of parking areas will be reduced for area factors including: parking surface material, terrain, and additional area(s) required for snow removal and storage.

Basis

- Technical Manual on Transport
- Venue design (overlay) and layout will affect the parking availability
- Precedent based on previous Olympic Games.

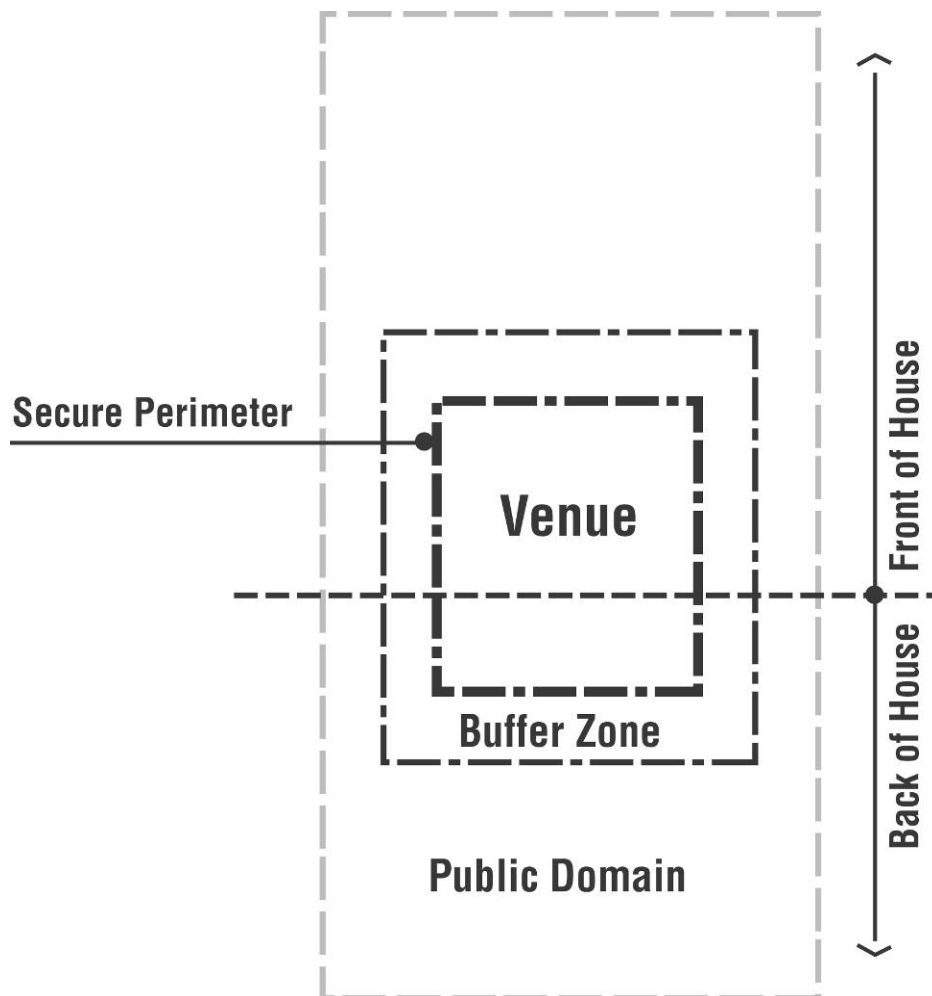
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1.1 Venue Area Concept, Continued

Venue Area Diagram

In the diagram below, a basic model has been developed that outlines the perimeter of a venue.





1.2 Venue Entry and Exit

Introduction

The venue entry and exit points during the Olympic Games period are a key component of venue design for Olympic use. Several factors should be taken into consideration when planning, including: walking distances for constituent groups, dedicated entry for athletes, hours of operation, type and level of security screen, waiting times to enter the venue prior to the competition beginning and flows of constituents to and from the entry and exit points.

Walking Distances from the Transport Drop-off

Each venue will establish designated transport drop-off points and walking routes for each Olympic constituent group.

Principles

- Practical, efficient and a reasonable comfort level taking into account the specific needs for each constituent group.
- Avoidance of congestion with same constituent and other constituent groups.
- Dispersion of load zones to allow for safe and efficient loading/unloading of constituents; easy access to constituent walking route.
- Venues situated in a cluster may have greater walking distances because the transport drop-off may be located at a greater distance than for stand-alone venues.
- Winter Games: special consideration should be given to pedestrian and wheelchair disabled access. Provisions for higher levels of snow and ice management on pathways, especially access ramps and inclined terrain should be considered.

Basis

- Precedent based on previous Olympic Games.

Continued on next page



1.2 Venue Entry and Exit, Continued

**Walking
Distances from
the Transport
Drop-off**
(continued)

The table below outlines recommended walking distances for Olympic constituent groups.

Constituent Group	Walking Distances
Athletes	Recommended at 30 metres maximum from transport drop-off to entry points and 100 meters from entry to athlete areas (locker rooms, lounge, etc.).
IOC/IF/NOC Technical Officials	Recommended at 50 metres maximum from transport drop-off to entry points, and 50 meters from the entry to the official/Honour/IOC areas.
Broadcasters	Recommended at 50 metres maximum from transport drop-off to entry points and 50 meters from the entry to the Broadcast Compound or seating area.
Press	Recommended at 50 metres maximum from transport drop off to entry points and 50 meters from the entry to the venue media centre or seating.

Continued on next page



1.2 Venue Entry and Exit, Continued

Walking Distances from the Transport Drop-off (continued)

Constituent Group	Walking Distances
Spectators / Sponsors	Recommended at a maximum of 1200 metres from transport drop off to entry points and 800 meters from the entry to spectator areas.
Workforce	Recommended at a maximum of 800 metres from transport drop off to entry points and 800 metres from entry to work area.
Accessible	Recommended at a maximum of 200 metres from transport drop off to entry points and 400 metres from entry to spectator areas.

Winter Games Note

The terrain, path surface conditions, and weather conditions commonly found in Winter Games venues suggests that the distances in the table should be factored down by a minimum of 25%.

Continued on next page



1.2 Venue Entry and Exit, Continued

Open/Close of Constituent Entry and Exit Points

In the venue design process venue hours of operation should be taken into consideration. The OCOG should establish hours of operation during the Games time period for all constituent groups, which will impact the opening and closing of all constituent entry and exit points.

<p>Principles</p> <ul style="list-style-type: none"> Varies accordingly by sport, venue type (shared sport venue), OCOG, location and constituency. <p>Basis</p> <ul style="list-style-type: none"> Precedent based on previous Olympic Games

Hours-Open/Close of Venue Entry

The table below outlines the recommended hours of opening and closing venue entry points.

Constituent Group	Opening of Entry/Exit Points	Closing of Entry/Exits Points
Athletes	<ul style="list-style-type: none"> Entry/Exit points generally open 2-4 hours before competition on event days and 1 hour before training on training days (adjusted according to IF recommendations). 	<ul style="list-style-type: none"> Sport-specific according to IF recommendations.
IOC/IF/NOC (Olympic Family)	<ul style="list-style-type: none"> Entry/Exit points generally open at same time as spectator gates, 2-3 hours before competition. 	<ul style="list-style-type: none"> Maximum 2 hours after competition concludes
Broadcasters	<ul style="list-style-type: none"> Entry/Exit points generally open 3 hours before competition. 	<ul style="list-style-type: none"> 3 hours after competition concludes This timeframe could be increased or decreased by the IOC according to need)

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1.2 Venue Entry and Exit, Continued

Hours-Open/Close of Venue Entry (continued)

Constituent Group	Opening of Entry/Exit Points	Closing of Entry/Exits Points
Press	<ul style="list-style-type: none">• Entry/Exit points generally open 3 hours before competition.	<ul style="list-style-type: none">• 3 hours after competition concludes• This timeframe could be increased or decreased by the IOC according to need.
Spectators / Sponsors	<ul style="list-style-type: none">• Entry/Exit points generally open 2-3 hours prior to competition.	<ul style="list-style-type: none">• Variable e.g. depending on preceding and following session times, transport schedules, access and egress flow capacity etc.
Workforce	<ul style="list-style-type: none">• Entry/Exit points generally open up to 24 hours per day to accommodate work shifts on event and non-event days.	<ul style="list-style-type: none">• Entry/Exit points generally open up to 24 hours per day to accommodate work shifts on event and non-event days.• Entry/Exits points during the venue off hours (pre/post competition hours) may be limited to one point.

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1.2 Venue Entry and Exit, Continued

Open/Close of Vehicle Entry and Exit Points Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. re-supply/fuel truck, broadcast compound, deliveries). Entry and exit point locations must be considered in venue design.

Vehicles	Opening of Entry/Exit Points	Closing Entry/Exits Points
Venue Motor pool, Service and Supply Vehicles	<ul style="list-style-type: none">• Vehicle Entry points generally open based on constituent group hours of operation (see above).• Movement of service and supply vehicles is normally limited to within the venue master delivery schedule time period; deliveries are generally scheduled outside the competition period to minimise congestion at the venue.• Winter Games Note: snow clearing and removal vehicles may be operated at any time, including during the load-in or load-out of the venue. A plan should be in place to allow for the snow crews with their vehicles, tools and bulk snow management materials to operate both inside and outside the secure perimeter of the venue.	<ul style="list-style-type: none">• Vehicle entry/exit points may close based on the constituent group transport schedule.• Overnight vehicle entry/exit points may be required for vehicles depending on the master delivery schedule time period.

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1.2 Venue Entry and Exit, Continued

Number of Magnetometers The venue entry points may house security magnetometer devices that require all constituent groups to enter when passing through the secure perimeter of the venue.

Principles

- The number of spectator magnetometers is typically calculated at a flow rate of **400 spectators per hour**.
- For Winter Games, due to the additional clothing and metallic fixtures often found on winter clothing, the flow rate for spectator magnetometers is typically calculated at a rate of **250-300 spectators per hour**.
- Flow rates for athlete and media with equipment are typically calculated at a flow rate of **200 per hour**.
- For Winter Games, due to the additional clothing and metallic fixtures often found on winter clothing, the flow rate for media magnetometers is typically calculated at a rate of **150-200 media personnel per hour**.
- The number of other constituent magnetometers (e.g. Athletes) should be determined using queuing times that are listed on the following page.

Note: advancement in technology may alter these principles.

Basis

- Precedent based on previous Olympic Games.
- This will vary based on the current security conditions that exist at the time of the Games.

Continued on next page



1.2 Venue Entry and Exit, Continued

Queuing Times at Entry Points / Screening Area

In the design of venue entry points and/or screening areas it is important to consider the queuing times of each constituent group as a factor in design.

Principles

- Practical, efficient and a reasonable queuing time when entering the venue, taking into account the specific needs for each constituent group.
- Avoidance of congestion with same constituent and other constituent groups by using a systematic process for persons entering the venue.
- Dispersion of constituent entry points to allow for free movement.
- Consideration should be given to various forms of entertainment or activities in the spectator queuing areas.

Basis

- Precedent based on previous Olympic Games

Queuing Times at Entry Points / Screening Area (continued)


The table below outlines the recommended queuing time for constituent groups at venue entry points for both Summer and Winter Games.

Constituent Group	Queuing Times
Athletes	• Recommended at a maximum of 5 minutes.
IOC/IF/NOC (Olympic Family)	• Recommended at a maximum of 10 minutes.
Broadcasters	• Recommended at a maximum of 10 minutes.
Press	• Recommended at a maximum of 10 minutes.
Spectators / Sponsors	• Recommended at a maximum of 20 minutes.
Workforce	• Recommended at a maximum of 10 minutes.
Accessible Persons	• Recommended at a maximum of 20 minutes (access to Operations gate at Spectator entry).



1.3 Front of House Operations Impact on Design

Introduction The Front of House (FOH) component of the venue is the area the spectator has reached after proceeding through the spectator entry point and/or security screening and ticket rip. The FOH is comprised of three main sections: the area outside the venue and leading to the venue, the concourse that contains spectator services and the spectator seating area.

Concourse Areas  The concourse areas consist of open space where spectators are free to move around at their leisure throughout the period of the competition. An area that allows reasonable circulation for a large number of persons attending an event.

Principles

- A concourse area may be required both outside and inside the secure perimeter depending on the size of the Olympic venue.
 - A reasonable and functional width to allow safe movement of spectators and accredited people, including those people with accessibility requirements.
-
- Accreditation zone changes (e.g. going from FOH to BOH) may affect space required in the concourse area, including space to set-up a change of zone, the equipment (e.g. barricades) and workforce (e.g. Event Services) that monitor the zone change.
 - May vary according to sport type, venue layout (e.g. road course, or indoor stadium), and popularity of sport in host country.
 - Winter Games: additional area will be required for the temporary and long-term storage of collected snow. Concourse areas should be increased by a factor that allows for the anticipated area required for snow storage, while maintaining the minimum required holding, queuing and pathway areas. Snow fencing or similar barriers are required for segregating dangerous terrain and snow storage areas from spectator areas, as well as “problem” areas (e.g. ice patches in pathways, dangers from falling snow and ice off of structures, etc.), which should be serviced at a later time (after spectator depart the venue).

Basis

Determined by local code or legislation.

Continued on next page



1.3 Front of House Operations Impact on Design, Continued

Medical Services Area



A medical services facility will be located in the FOH areas to service spectators primarily; additionally it will service other Olympic constituent groups at the venue.

Principles

- A quick and efficient emergency response time for all constituents, both inside the venue and in queuing areas
- Easy access between the facility and other areas of the venue.
- Outdoor Venues: additional area will be required for the parking and the predefined routes of all-terrain vehicles and snowmobiles where required for the purposes of responding to medical emergencies in all areas of the venue. This includes pedestrian concourses both inside and outside the secure perimeter and the field of play.

Basis

- Technical Manual on Medical Services
- IOC Medical Commission standards.
- Determined by local code or legislation.

Continued on next page



1.3 Front of House Operations Impact on Design, Continued

Medical Services Proximity

The table below outlines the recommended proximity and service level for medical services at the venue for certain constituent groups and the typical personnel.

Constituent	Proximity & Service Level of Medical Services	Medical Personnel
IOC/IF/NOC (Olympic Family)	<ul style="list-style-type: none">• Opening/Closing ceremony only - a medical station should be located in or adjacent to Olympic Family Lounge.• Otherwise, it is not necessary to have a specific area for medical dedicated to the Olympic Family in venues throughout the event. Use spectator medical service areas.	<ul style="list-style-type: none">• Roving medical personnel available throughout the event to service IOC/IF/NOC seating areas and OF lounge area.• Typically the same personnel servicing spectators
Broadcasters	<ul style="list-style-type: none">• Use the spectator medical service areas on event days.	<ul style="list-style-type: none">• On-site Emergency Medical Services available on non-event and training days when periods of high risk are identified.
Press	<ul style="list-style-type: none">• Use the spectator medical service areas on event days.	<ul style="list-style-type: none">• On-site Emergency Medical Services available on non-event and training days when periods of high risk are identified.
Spectators / Sponsors	<ul style="list-style-type: none">• Located close to spectator seating and standing areas.	<ul style="list-style-type: none">• Roving medical personnel in spectator front of house areas available throughout the competition.
Workforce	<ul style="list-style-type: none">• Use the spectator medical service areas on event days.	<ul style="list-style-type: none">• On-site Emergency Medical Services available on non-event and training days when periods of high risk are identified.

Continued on next page



1.3 Front of House Operations Impact on Design, Continued

Drinking Water



In the development of the venue design it should be determined whether access for spectators to water drinking facilities at the venue is necessary.

Principles

- The health and safety factors of water provision.
- Easy access to be considered at convenient and frequent locations depending on a Winter or Summer Games, on the location of the Games, and climatic conditions during the period of the Games.
- Water quality to be strictly monitored and controlled by qualified personnel
- Location to be away from spectator services points of sale.
- Facilities may vary accordingly between indoor and outdoor sites.


Basis

- Precedent based on previous Olympic Games.
- Determined by local code or legislation.

Continued on next page



1.3 Front of House Operations Impact on Design, Continued

Toilet Facilities  In the development of the venue design consideration should be given to the number of toilets required, type of toilets, service requirements, and locations.

Principles

- Total number of toilets is generally based on spectator capacity, duration of event including load-in/load-out time.
- Emphasis should be placed on consistent distribution and adjacent functions (e.g. concessions, seating, queuing).
- Hand-wash stations may be required for temporary toilet units.
- Accessible toilets facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location.

Basis

- Precedent based on previous Olympic Games.
- Determined by local code or legislation.

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1.3 Front of House Operations Impact on Design, Continued

Shade/Shelter and Rest Seating Areas



In the development of the venue design it should be determined whether to develop or install shade/shelter areas and rest seating for spectators accessing both indoor and outdoor venues.

Principles

- The health and safety of the constituent groups.
- A reasonable quantity to be considered based on climatic conditions.
- The distances between transport drop-off, entry, seating and service areas.
- Consider the use of vegetation, canopies, existing infrastructure, etc. where possible.
- Varies accordingly for indoor and outdoor venues.

Basis

- Precedent based on previous Olympic Games.
- Determined by local code or legislation.

Winter Games Note

Consideration should be given to providing covered and/or enclosed areas in outdoor venues for spectators and other accredited groups in the design of venues. These facilities generally do not provide seating as they are intended to serve large numbers of individuals for short periods of time. Some spaces planned into the normal operations of competition venues can double as holding areas in times of severe weather conditions or disaster response.

Continued on next page



1.3 Front of House Operations Impact on Design, Continued

Spectator Services

Generally consisting of all services for spectators, including: food/beverage concessions, merchandise stands, telephones, and automatic teller machines (ATMs), with easy access to and from the spectator seating areas.

Principles

- An area designed to allow safe movement and queuing of spectators for food/beverage and merchandise services, public information, pay phones, ATMs, etc.
- Services may affect space or area required in the concourse areas or main spectator flow areas.
- Plan for sufficient area that gives easy access to service and delivery vehicles for re-supply.
- Consistent distances for all seated and standing spectators.
- Service area locations and numbers may vary according to size and layout of site.
- Inside and outside venue perimeter concourses house all spectator services.
- Winter Games Note: snow storage is generally required to some degree in each spectator service area, as removal is generally avoided during entry/exit of spectators and during competition periods. In cases of severe conditions, an operations plan which would have an impact on spectator services operations is required to allow for snow maintenance and removal during these periods.

Basis

- Precedent based on previous Olympic Games.
- Determined by local code or legislation.

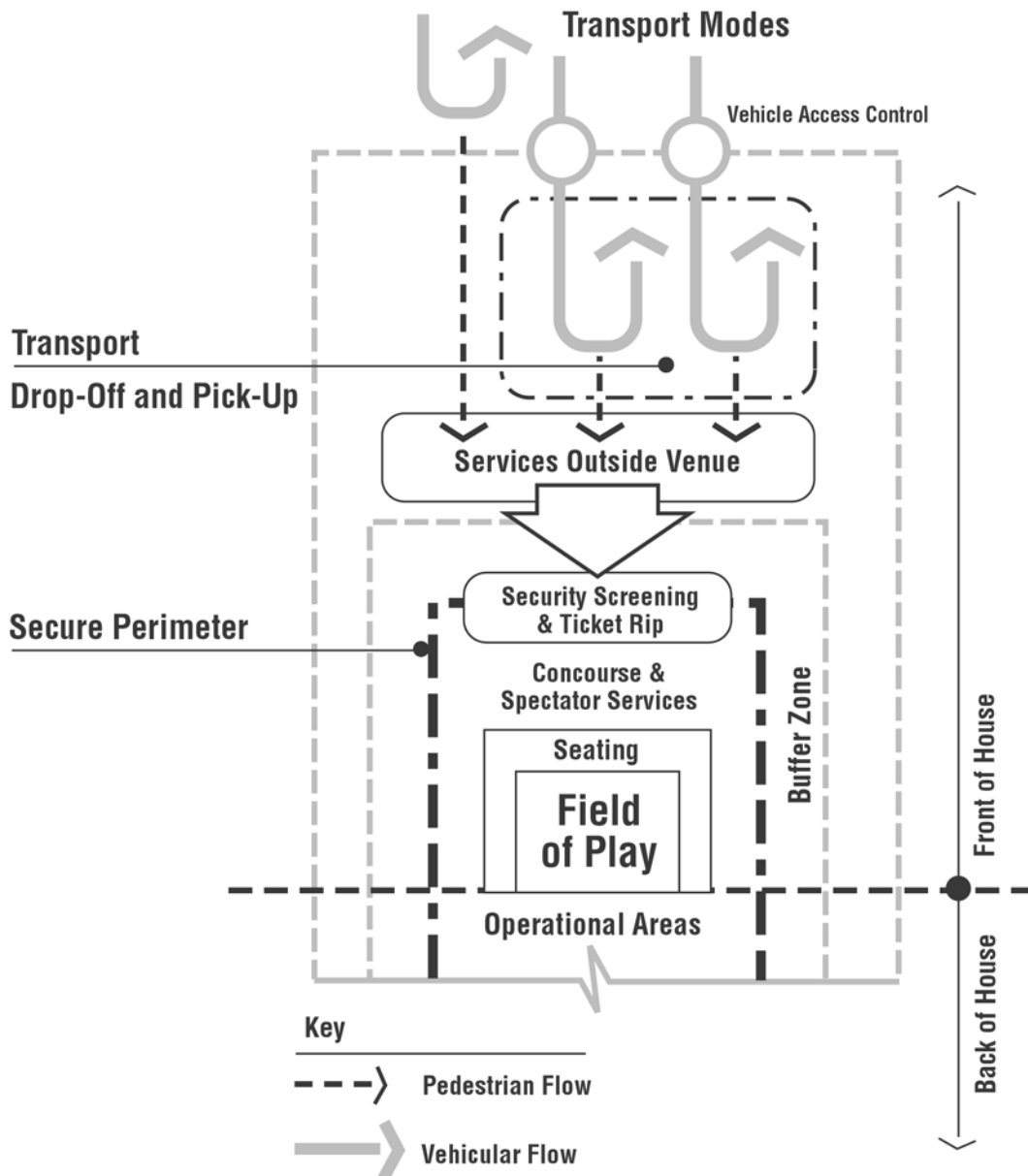
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1.3 Front of House Operations Impact on Design, Continued

Venue Front of House

In the diagram below, a basic model has been developed that outlines the FOH at the venue.



Continued on next page



1.3 Front of House Operations Impact on Design, Continued

Constituent Flows



In the design and/or development of the venue for Games time it is important to consider constituent flows, that is, how each constituent group will move in and around the venue.

Principles

- Practical, efficient and a reasonable movement and or pathway from the transport drop-off point to the relevant venue area (e.g. Olympic Family lounge); taking into account the specific needs for each constituent group.
- The most effective environment possible for athletes to have minimal disruption
- Certain routes may vary according to venue size and layout.
- Allow flexibility with certain constituents to use managed crossovers or use shared pathways and areas of the venue
- Constituent access will vary according to venue layout.

Basis

- Precedent based on previous Olympic Games.
- Determined by local code or legislation.
- Also see the [Technical Manual on Transport](#), the [Technical Manual on Media](#), and the [Technical Manual on Sport](#).

Continued on next page



1.3 Front of House Operations Impact on Design, Continued

Vehicle Flows In the design and development of the venue for Games time it is important to consider internal vehicle flows throughout the venue.

Principles

- A defined plan for vehicular flow for internal working vehicles that may be required to service and re-supply various venue facilities (e.g. food/beverage delivery vehicles, refuelling, waste removal).
- Internal venue vehicle flow is recommended to be only in operation overnight or during pre and post competition time periods.
- Dedicated and marked with route for spectators with accessible needs (e.g. wheelchairs).
- A defined plan for emergency vehicle access routes throughout the venue (inside the secure perimeter).

Basis

- Precedent based on previous Olympic Games.
- Determined by local code or legislation.

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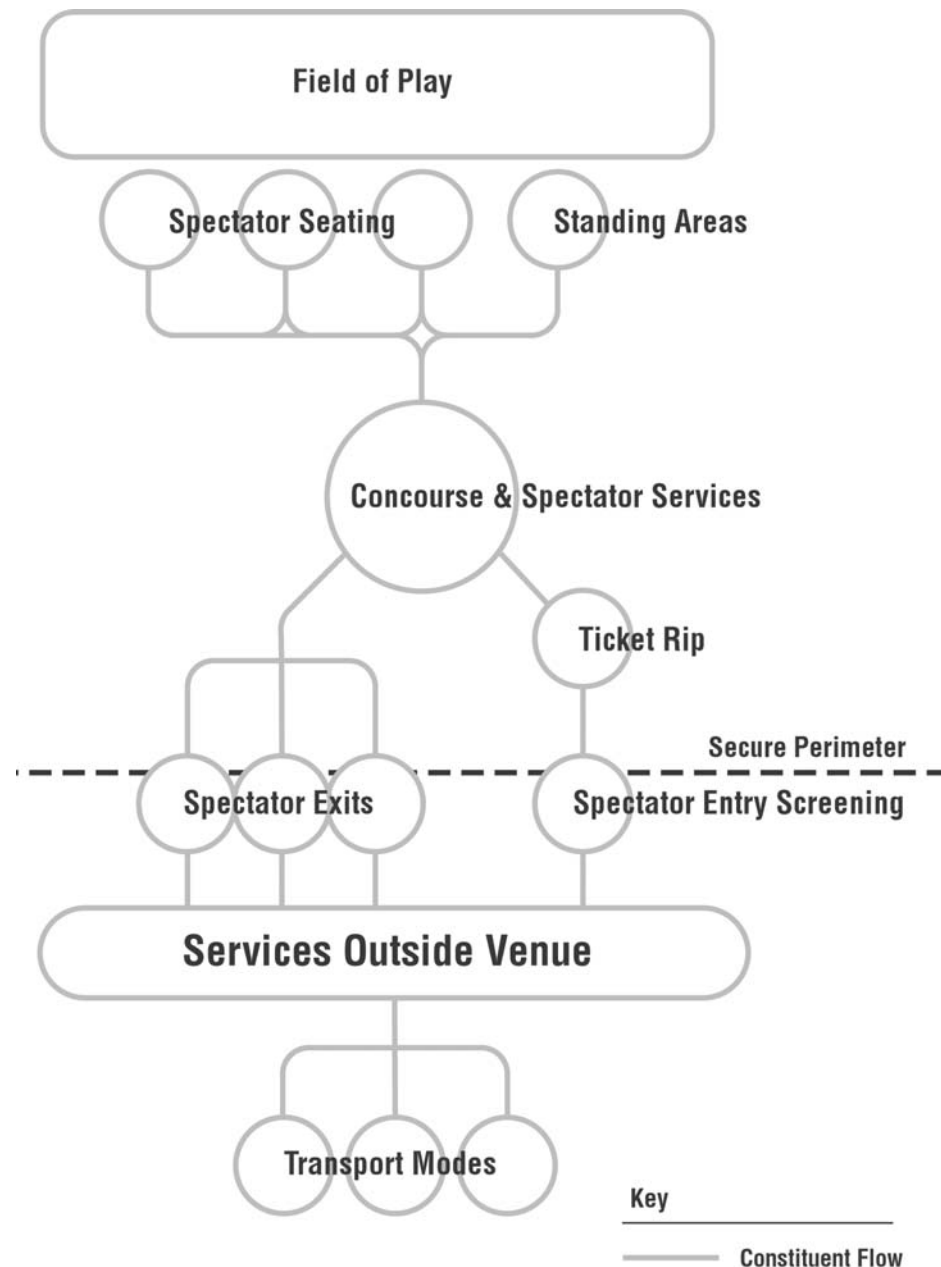


1.3 Front of House Operations Impact on Design, Continued

Spectators/ Sponsor Constituent Flow Diagram

In the following table and diagram, a basic model has been developed that presents the flow of constituents (Spectator/Sponsors) entering the FOH from the transport drop-off/pick-up point and then proceeding to the venue seating or other areas in the venue.

Note: Generally, venue planning/design for sponsor constituents will be identical to spectators.





1.4 Back of House Operations Impact on Design

Introduction The BOH component of the venue is defined as those areas of the venue designed to support the operation. Typically located out of view of the public, access to the BOH areas is restricted to those individuals with the appropriate accreditation.

Workforce Spaces, Offices and Working Areas The designated workspaces in the venue for functional area staff to operate.

Principles

- Functionality – in event mode the need for office space or area is significantly reduced from a normal office environment. While certain FA staff may require dedicated working space, the majority will be performing their functional duties without requiring a permanent desk or office space.
- Open plan office space utilising shared workstations.
- Enclosed offices limited to special needs.
- The concept of shared space for various functions is a key element to review when developing the venue spaces. This concept of integrating several functions under one roof allows for venue team cohesiveness and closer communication throughout the event. Therefore, in the Venue Design Standards Matrices, dedicated office space has only been listed for a very small number of FAs based on functional need. The other FAs are assumed to intermittently use office space within the Venue Operations Centre (VOC).

Basis

- Precedent based on previous Olympic Games.

Continued on next page



1.4 Back of House Operations Impact on Design, Continued

General Accredited Zones



Designated areas within a venue that limit participants' access to areas they need to go to perform their official functions and keep unauthorised persons out of reserved areas.

Principles

- A defined area where multiple functional areas require operational space at the venue.
- Size varies by venue capacity.
- More than one location at the venue may be used.
- Vehicular and pedestrian routes should link all areas to avoid leaving the secured perimeter.

Basis

- Precedent based on previous Olympic Games.
- Also see the [Accreditation and Entries at the Olympic Games - User's Guide](#)
- Determined by local code or legislation.

Continued on next page



1.4 Back of House Operations Impact on Design, Continued

Athlete Areas
X An area adjacent to the FOP or in close proximity with easy access to FOP areas and warm-up areas (where applicable). The athlete area operates in conjunction with the FOP and supports the athletes with the services that are required for pre or post competition.

Principles

- A defined area to accommodate athlete services required for the competition and warm-up areas.
- Requires an independent venue entry point.
- Houses functions specific to sport and athlete operations (e.g. athlete medical services).
- Requires a higher level of access control and security monitoring during operation.
- Is, by nature, linked directly to the FOP.

Basis

- Precedent based on previous Olympic Games.
- Also see the [Technical Manual on Sport](#)

Continued on next page



1.4 Back of House Operations Impact on Design, Continued

Broadcast Compound Area X An area accommodating all the necessary broadcast operations at the venue; located in close proximity and with easy access to the broadcast tribune and FOP areas.

Principles

- Requires an independent venue entry for pedestrians and a variety of specialised broadcast related vehicles.
- It is recommended to develop and maintain an isolated cabling and pedestrian link to the seating area.
- A higher level of access control and security monitoring should be maintained in and around compound area.

Basis

- Precedent based on previous Olympic Games.
- Also see the [Technical Manual on Media](#)

Continued on next page



1.4 Back of House Operations Impact on Design, Continued

Compound Area(s)



An area defined to accommodate core sub-functions necessary to operate the venue (e.g. Catering, Logistics, Site Management, and Cleaning/Waste).

Principles

- Size varies by venue capacity.
- Location will vary according to venue layout; specifically the BOH areas of the venue.
- Easy internal access for vehicles to other parts of the venue and easy external access for servicing vehicles.
- Safe pedestrian routes should also be considered.

Basis

- Precedent based on previous Olympic Games.
- Determined by local code or legislation.

Winter Games Note

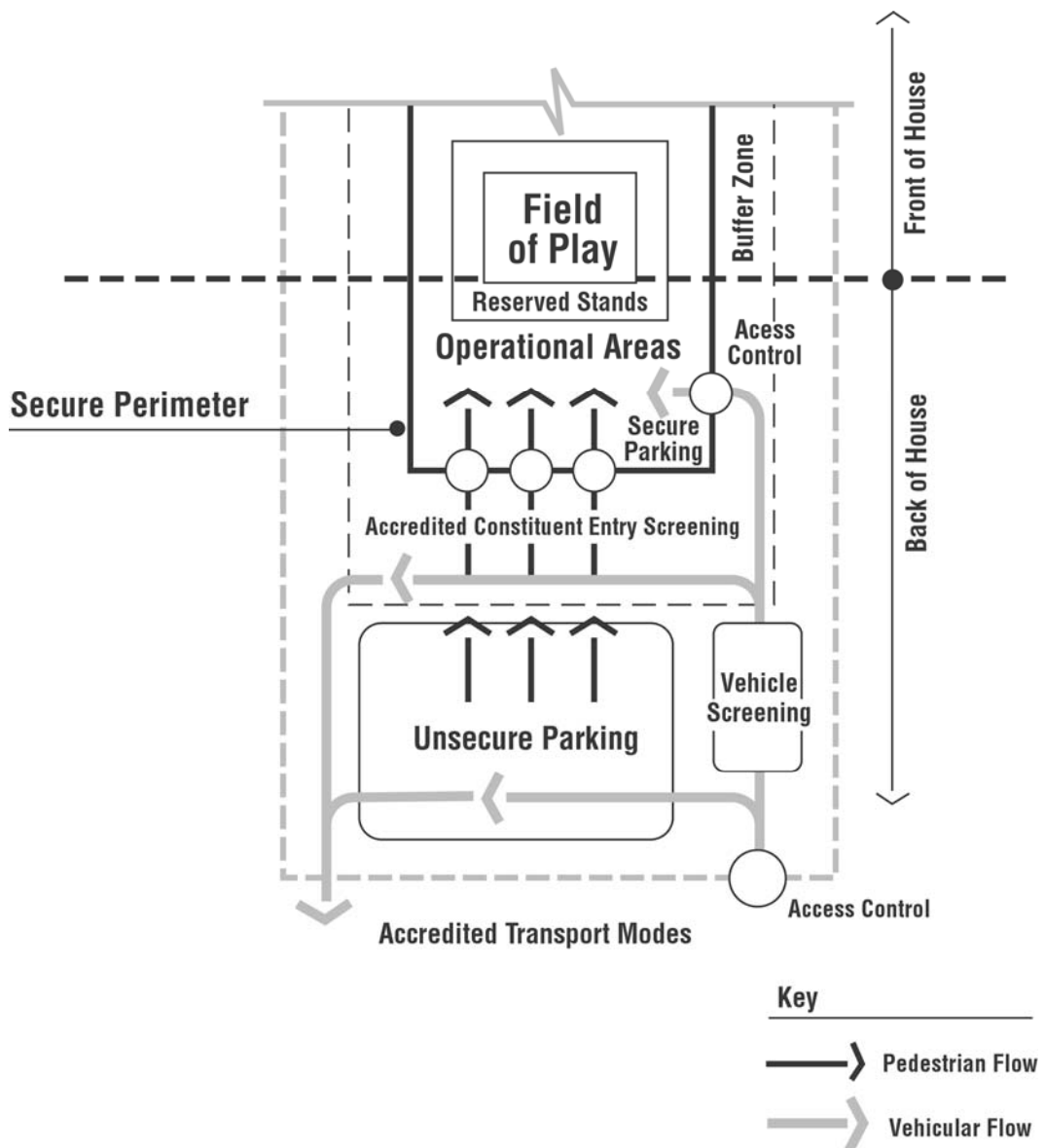
Depending on how services and Functions are structured, contracted or outsourced, there will be the need for a snow management compound. Each venue will require area for the snow management team and their required vehicles, tools and bulk materials.

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1.4 Back of House Operations Impact on Design, Continued

Venue Back of House

In the diagram below, a basic model has been developed that outlines the BOH area at the venue.



Continued on next page



1.4 Back of House Operations Impact on Design, Continued

Constituent Flows



In the design and development of the venue for Games time it is important to consider constituent flows, and how each constituent group will move in and around the venue.

Principles

- Practical, efficient and a reasonable movement and or pathway from the transport drop-off point to the relevant venue area(s) (e.g. Olympic Family lounge); taking into account the specific needs for each constituent group.
- The most effective environment possible for athletes to have minimal disruption
- Certain routes may vary according to venue size and layout.
- Allowing flexibility with certain constituents to use managed crossovers or use of shared pathways.
- A defined plan for vehicular flow for internal working vehicles that may be required to service and re-supply various venue facilities (e.g. food/beverage delivery vehicles, refuelling, waste removal); internal venue vehicle flow is recommended to be only in operation during the overnight or pre and post competition time periods.
- Constituent access will vary according to venue layout.

Basis

- Precedent based on previous Olympic Games.
- Technical Manual on Media
- Also see the [Technical Manual on Sport](#), and the [Technical Manual on Transport](#)
- Determined by local code or legislation.

BOH Constituent Flow Diagrams

In a series of tables and diagrams in the following pages, a basic model has been developed that presents the flow of each constituent group entering the BOH from the transport load drop-off point and then proceeding to various areas of the venue.

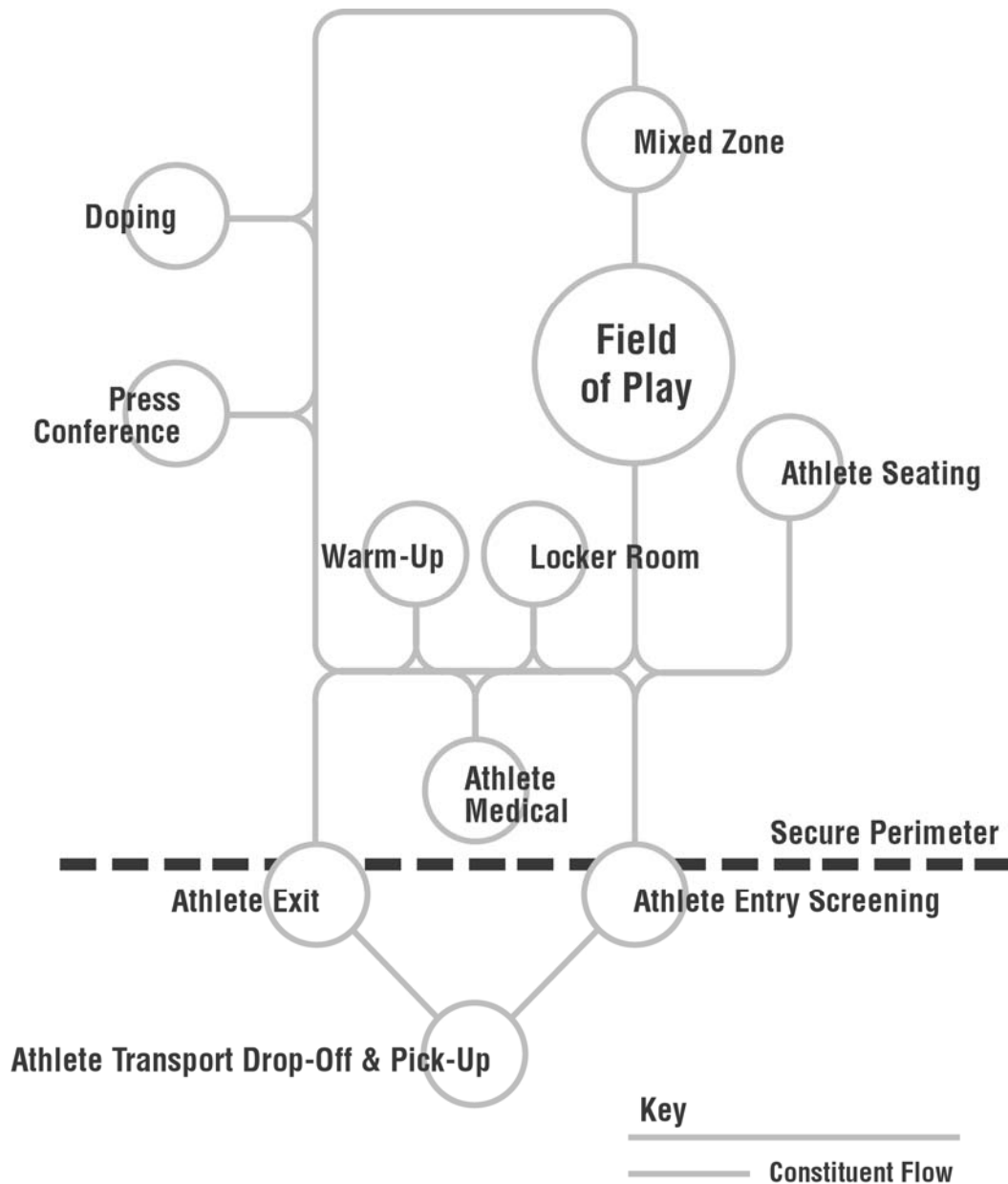
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1.4 Back of House Operations Impact on Design, Continued

Athletes

- Secure and exclusive route required and generally no exceptions.
- A limited number of controlled crossovers with other constituent groups should only be considered when other reasonable solutions are not available.



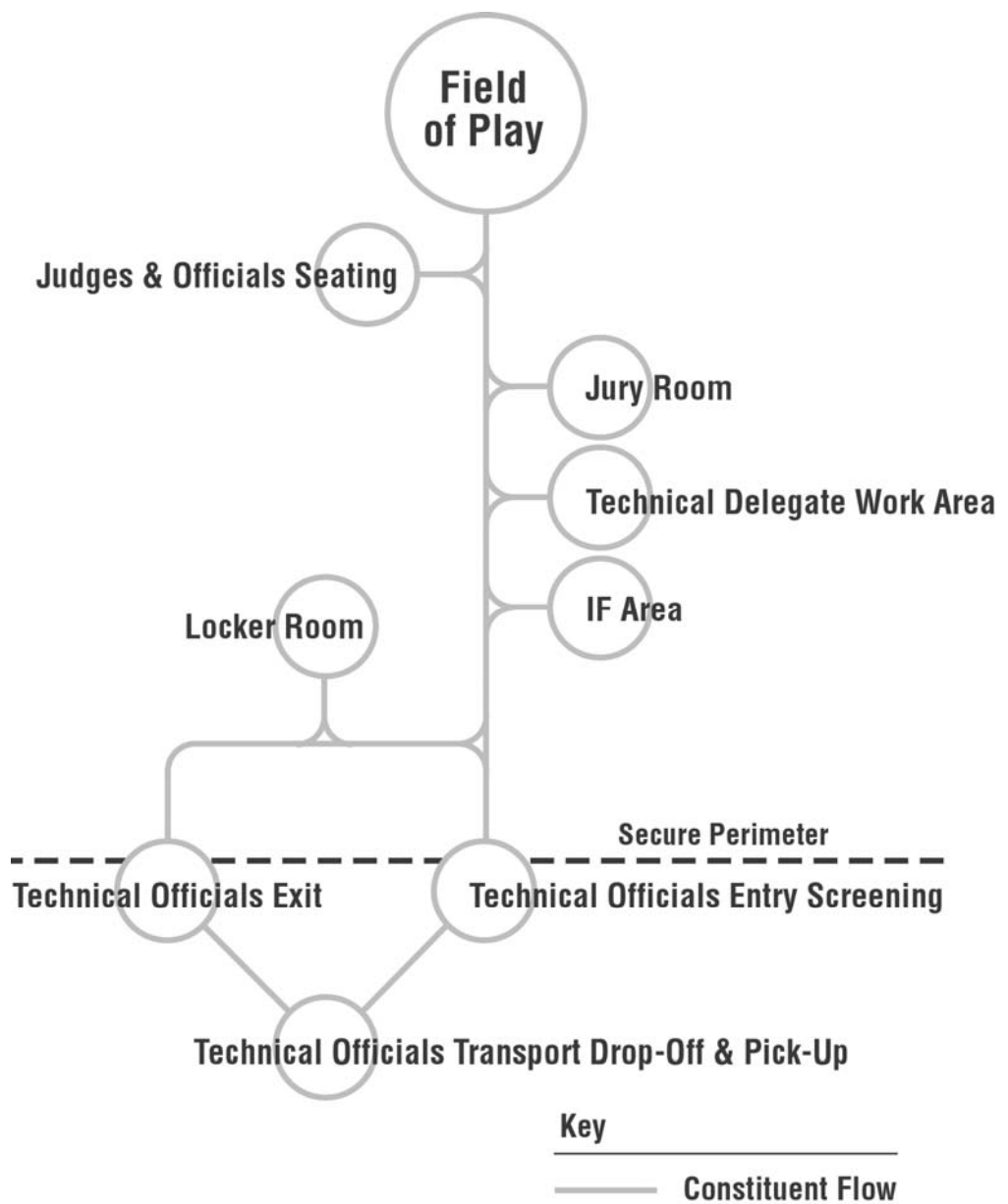
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1.4 Back of House Operations Impact on Design, Continued

Technical Officials (TOs)

- Controlled crossovers with other constituent groups are permitted if other reasonable solutions are not available.

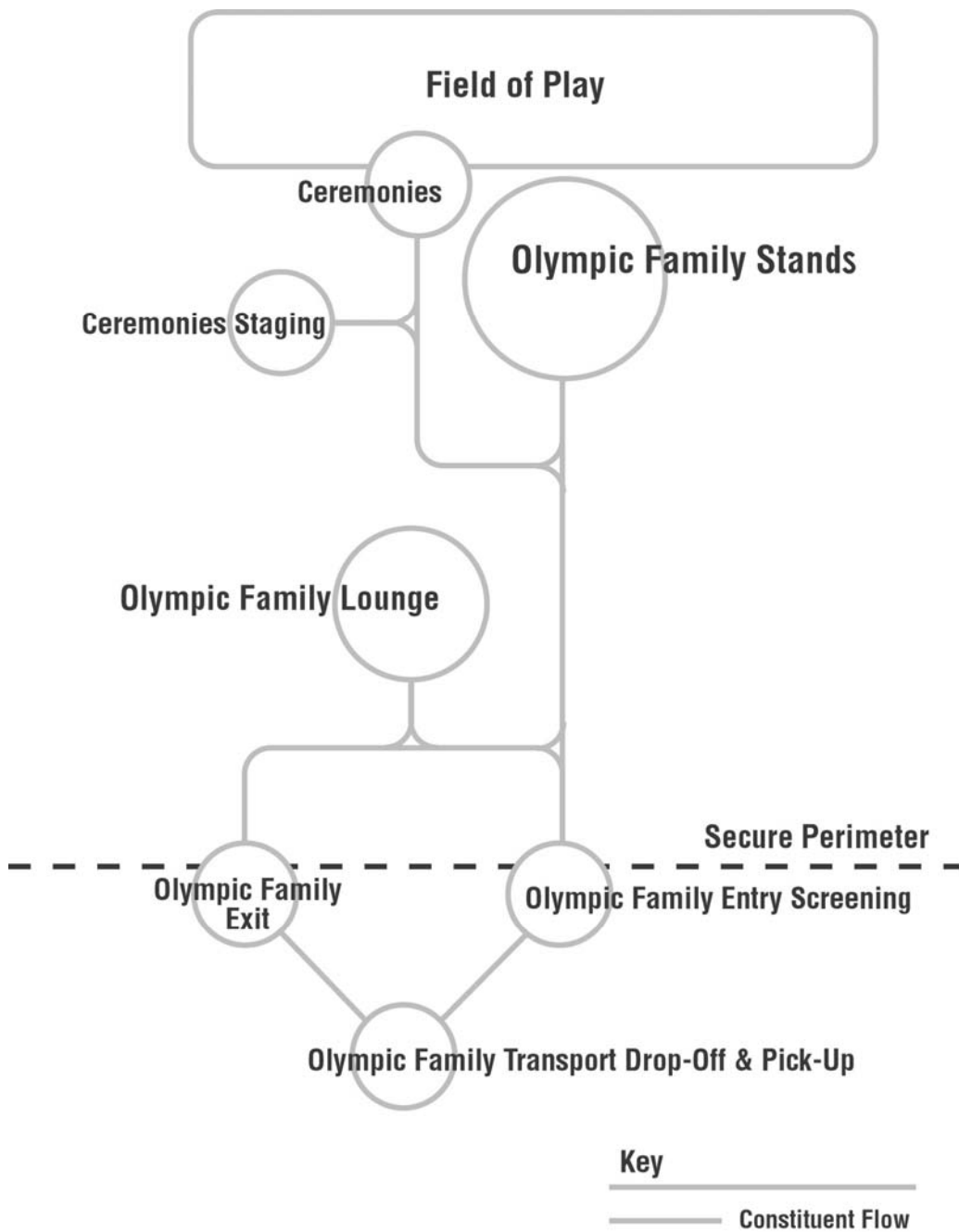


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1.4 Back of House Operations Impact on Design, Continued

- Olympic Family (IOC/IF/NOC)**
- Controlled crossovers with other constituent groups are permitted if other reasonable solutions are not available.



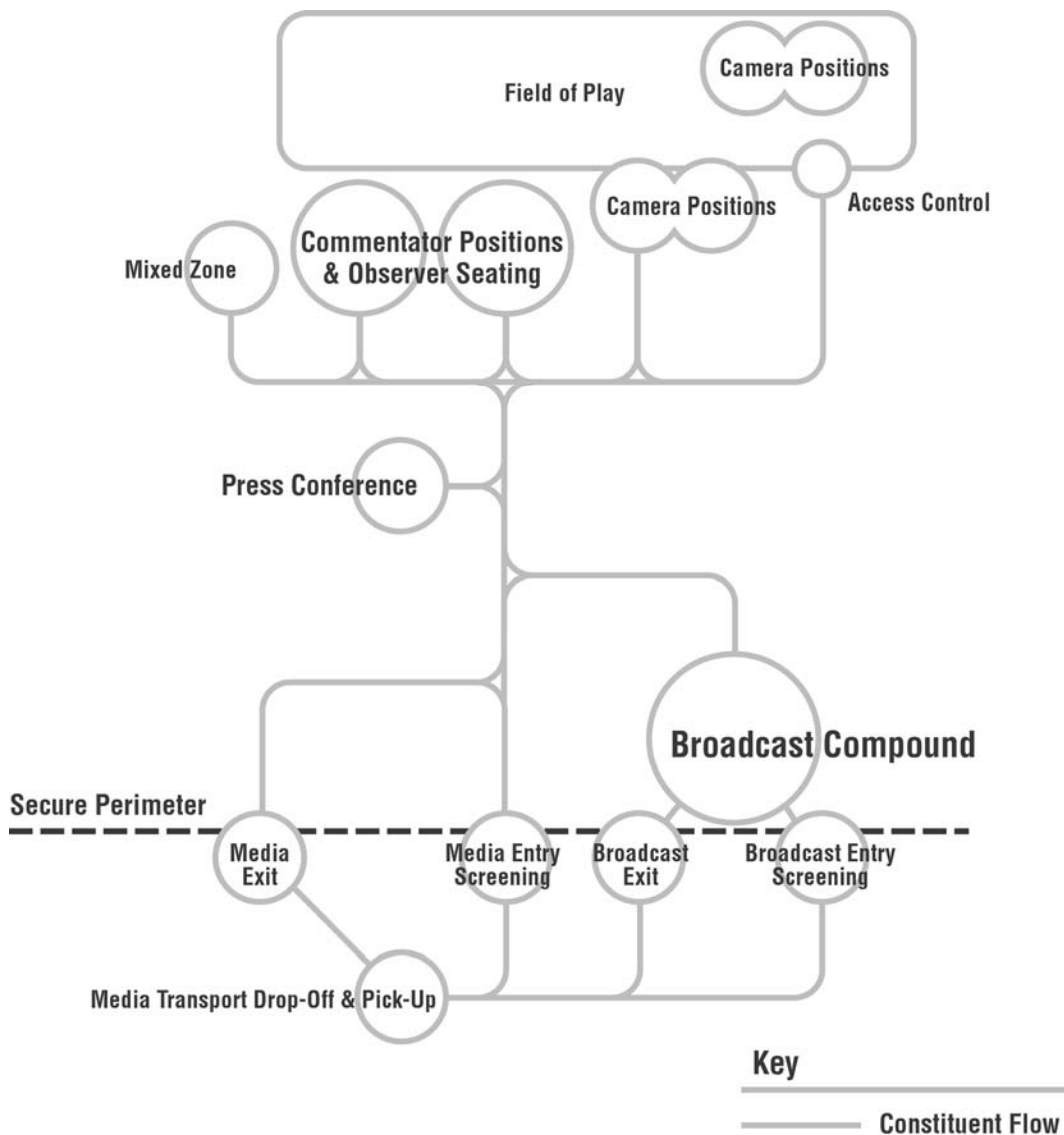
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1.4 Back of House Operations Impact on Design, Continued

Broadcast

- Controlled crossovers with other constituent groups are permitted if other reasonable solutions are not available.



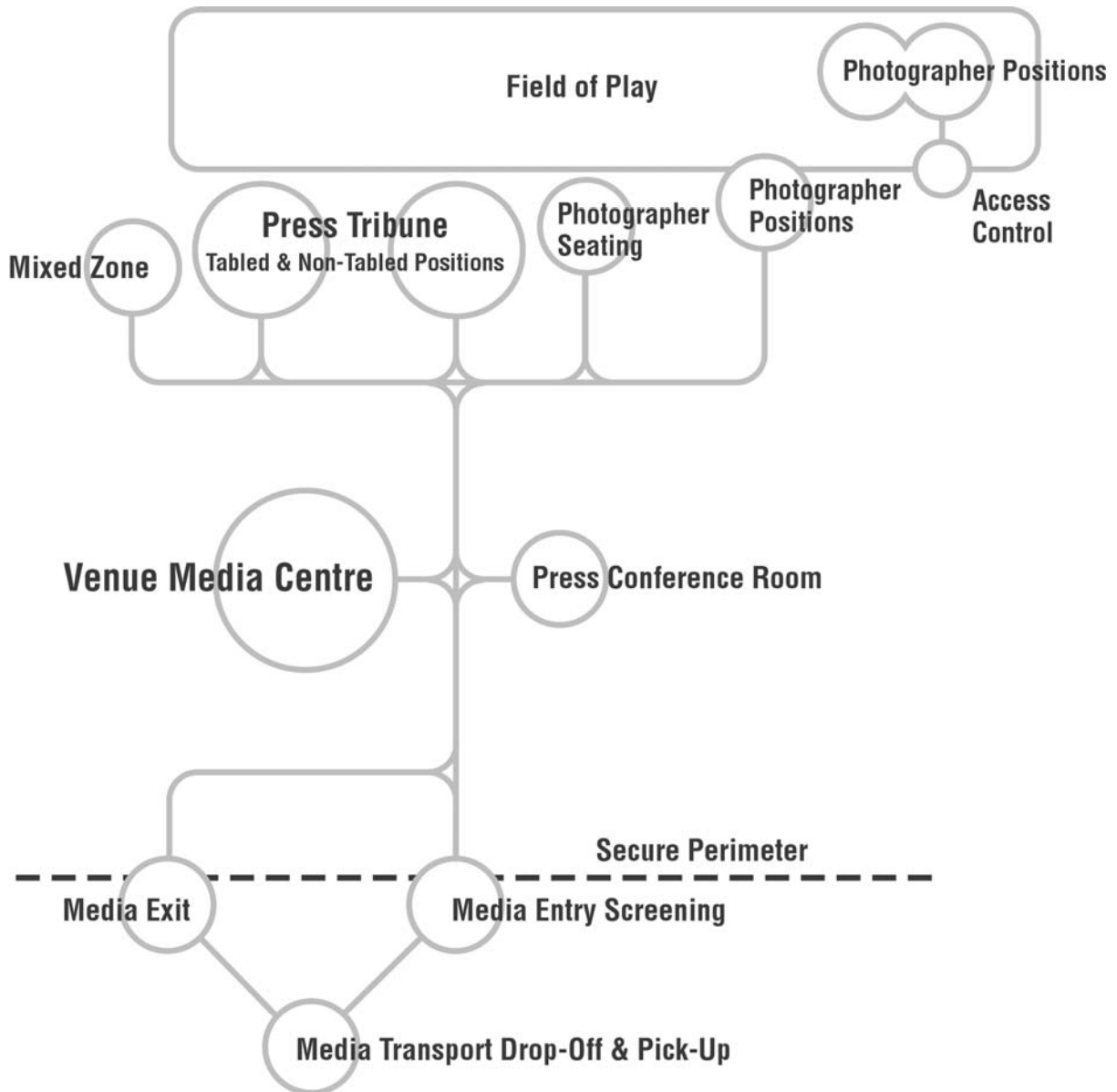
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1.4 Back of House Operations Impact on Design, Continued

Press and Photographer

- Controlled crossovers with other constituent groups are permitted if other reasonable solutions are not available.



Key

———— Constituent Flow

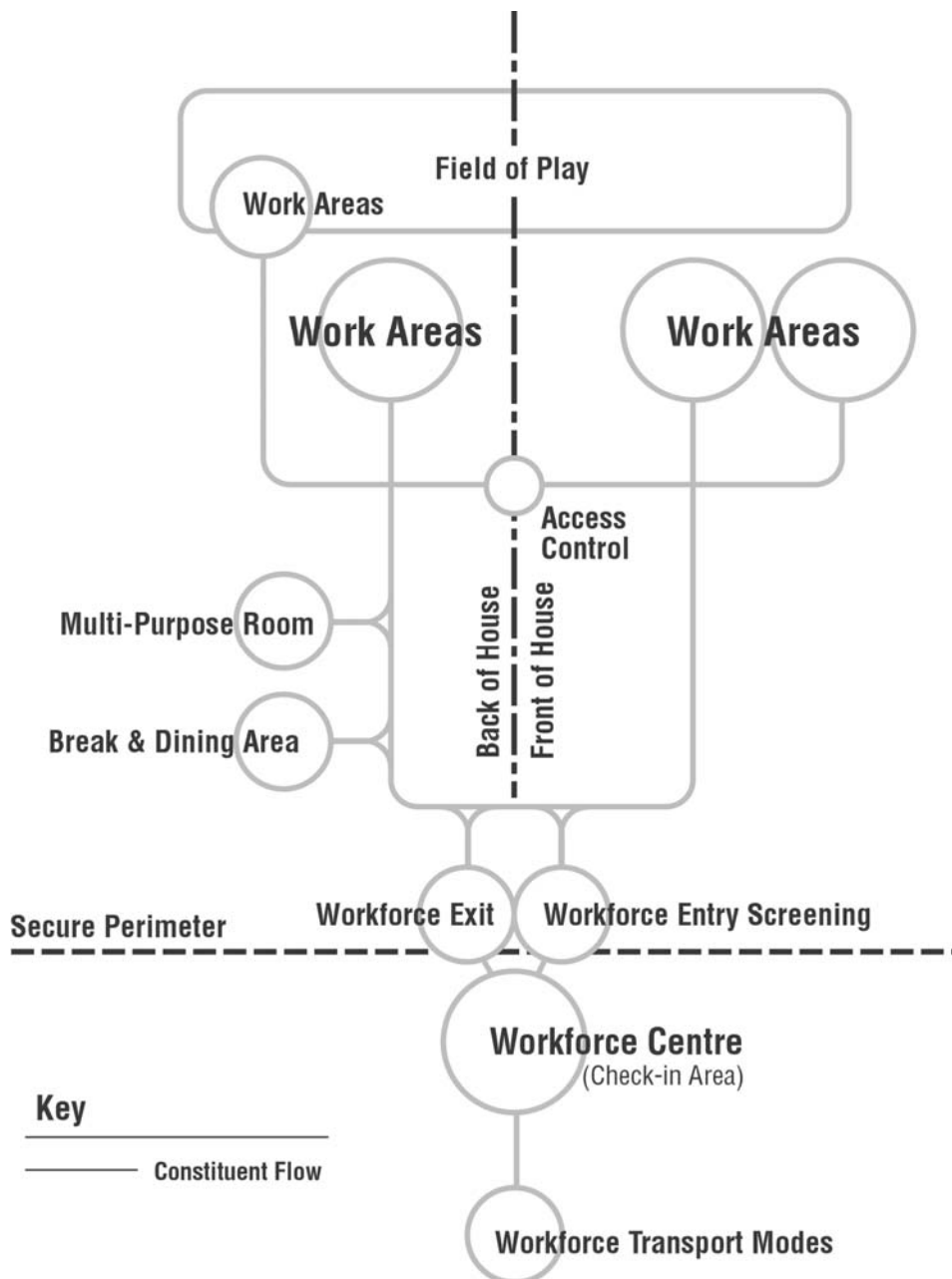
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1.4 Back of House Operations Impact on Design, Continued

Workforce

- Generally uses the spectator arrival routes with a dedicated route to and from staff check-in.
- BOH routes in general area and special areas by accreditation.





1.5 Seating and Standing Areas

Introduction The areas in the venue designed as the designated location where all spectators and other Olympic constituents attending the competition will view the competition; generally located along the FOP in FOH and BOH areas. An appropriate ticket or accreditation is typically required to enter these areas.

Seating Sections In the design of seating areas consideration should be given to a safe and functional movement to and from the seating areas.



Principles

- Seating areas should be divided into sections to allow for safe and functional entry and exit for constituents.

Basis

- Determined by local code or legislation.


Winter Games-Outdoor Venues Note

- Operational (procedures) and space provisions (adjacent bulk materials and tools) should be planned for the continued maintenance of the seating sections, stairways, pathways, etc. both during load-in/out and the competition periods.
- Additional area should be provided at the edges and/or perimeter of all seating areas to allow for snow and ice to be removed without falling onto spectators or impeding pathways and stairs.

Continued on next page



1.5 Seating and Standing Areas, Continued

Type of Seating  In the development of the venue seating areas consideration should be given to the type of seating (both temporary and permanent) design for Olympic constituents that will be viewing the competition.

Principles

Seating Types

- Spectator seating areas or sections can vary from seats with back, bench seating, accessible seating and or grass seating areas.
- Seat types will vary for specific constituent groups (e.g. Athletes, Olympic Family).
- Seat backs are recommended for Olympic Family and dignitaries.
- Varies by host city culture.

General

- Seats that provide reasonable comfort over a period of 2 to 4 hours.
- Non-flammable construction.
- Armrests are not required.
- Seating in general should accommodate all users; reasonable space for legroom and passage along rows.
- Grass seating areas generally occupy .75 square metres per person exclusive of designated access aisles.

Basis

- Precedent based on previous Olympic Games.
- Determined by local code or legislation.

Continued on next page



1.5 Seating and Standing Areas, Continued

Seat Sizes



In the selection of seat types and/or sizes it is important to consider the constituent group viewing the competition and the relative comfort level that may be required.

Principles

Minimum width

- 46 centimetres (18 inches).

Minimum depth

- USA - 61 centimetres (24 inches); not generally recommended.
- Europe - 80 centimetres (31.5 inches); recommended minimum.

Note: Temporary seating systems are usually 75 centimetres (29.5 inches) in depth and are generally accepted for use by local agencies.

Basis

- Human physiology studies.
- Determined by local code or legislation.

Continued on next page



1.5 Seating and Standing Areas, Continued

**Reserved
Stands
X**

A dedicated seating area for accredited constituents viewing the competition.

Principles

- Reference should be made to the IOC Accreditation and Entries at the Olympic Games – User’s Guide for the specific breakdown of constituents’ accreditation categories in each stand.
- During preliminary rounds, an OCOG may take the opportunity to have less Olympic Family seats than in later stages of competition or medal rounds, due to lower Olympic Family demand in the preliminary rounds. This would allow the OCOG to sell these seats in the preliminary rounds.
- Therefore reserved seating areas should be designed to allow increase in number of seats for later stages of competition or medal rounds. When planning for such reconfiguration, it is important to ensure that constituent access routes to the seating areas are not negatively impacted. For example, spectators may need to access an area in the preliminary rounds, while Olympic Family may need to access the same area in later rounds.
- Such solutions should be discussed with the IOC and the relevant IF.
- Sponsors – are normally ticketed and seated in general public seating areas.

Basis

- Also see the [Accreditation and Entries at the Olympic Games – Users’ Guide](#) and the [Technical Manual on Media](#)
- Transfer of Knowledge reports for previous Games data.

Continued on next page



1.5 Seating and Standing Areas, Continued

**Reserved
Stands**
(continued)

The table below outlines the constituent groups and planning principles for reserved stands for competition events.

Stand	Constituent Group	Principle
Official Stand	<ul style="list-style-type: none">• IOC• NOC	<ul style="list-style-type: none">• Dedicated seating with optimum viewing angles to the key element of the FOP (such as the mid-field, mid-court or finish line) and where possible in close proximity to the Olympic Family lounge.
Stand of Honour	<ul style="list-style-type: none">• IOC Guests	<ul style="list-style-type: none">• Dedicated seating with optimum viewing angles to the key element of the FOP and where possible in close proximity to the Olympic Family lounge.
Federation Stand	<ul style="list-style-type: none">• IF• Judges / Jury / Technical Officials	<ul style="list-style-type: none">• Dedicated seating with optimum viewing angles to the key element of the FOP and where possible in close proximity to the Olympic Family lounge.• Location may vary according to sport (i.e. judges may be seated separate from the Federation Stand) and should be decided in consultation with the relevant IF.
Athlete Stand	<ul style="list-style-type: none">• Athletes / Teams and Team Officials/ Coaches	<ul style="list-style-type: none">• Dedicated seating overlooking the FOP, generally with easy access to the athlete preparation areas.• Location may vary according to sport (i.e. coaches may be seated separate from the coaches stand).
RT Stand	<ul style="list-style-type: none">• Broadcast	Commentator tabled and observer seating positions for rights holders. These positions are located so that the commentator has an optimum view of the competition and important sources of information such as scoreboards, and, where applicable, in direct view of the finish line.
E Stand	<ul style="list-style-type: none">• Press	Dedicated seating for E accredited written press with a combination of tabled and non-tabled positions overlooking the FOP with an unobstructed view and in close proximity to the Venue Media Centre where possible.

Continued on next page



1.5 Seating and Standing Areas, Continued

Standing Area
X Generally, defined areas for accredited persons and/or unaccredited persons located in the venue adjacent to the FOP.

Principles

- Standing areas are relevant for certain Olympic competition venues.
- Standing areas may be defined for accredited persons and/or unaccredited persons adjacent to the FOP.
- 0.5 square meters per person exclusive of designated access aisles (or 7 square feet per person). Consideration must also be given to access, egress, and crowd flow and control in the venue seating and standing areas.
- Venues in which standing and/or grass seating may be used in addition to permanent and/or temporary seating include: Equestrian/Eventing, Cycling/Mountain Bike/Road Events, Sailing, Tennis (outlying courts), Triathlon Marathon, Race Walk, Canoe Kayak Slalom Racing, Modern Pentathlon, Rowing, Canoe Kayak Flat-water, Ski Jumping/Nordic Combined, Cross Country, Biathlon, Alpine, Freestyle, and Snowboard,
- Winter Games Note: “Outdoor” and “mountain” venues generally use snow terracing, on multiple levels, for standing areas for the following groups: Spectators, Olympic Family viewing outside their lounge Media, Field of Play Photographers, etc. Consideration for user safety and additional ground area should be given for access (including disabled). Pathway surface treatment, guardrails, emergency exiting, and embankment and maintenance and restoration during use and after each use are considerations in the built and operational plans.

Basis

- Precedent based on previous Olympic Games
- Also see the [Technical Manual on Media](#)
- Determined by local code or legislation.

Continued on next page



1.5 Seating and Standing Areas, Continued

Sight Lines



A defined viewing angle to the FOP from each seating location in the venue.

Principles

- Clear and unobstructed sight lines to the FOP within all boundary lines.
- Clear and unobstructed sight lines to sport objects (e.g. trajectory or balls) and/or athletes in the air (e.g. Diving).
- Clear and unobstructed sight lines to scoreboard(s)/video boards.
- For a FOP encircled with side padding or Look elements, the allowable obstruction varies – it is assumed that clear sight lines are available from three (3) meters to five (5) meters inside the boards and/or walls of the FOP.
- Consideration should also be given to camera positions and seat kills that may be required for a clear sight line to the FOP.

Note: the above principles may not be possible to achieve when an existing building is used, or when a venue built for a different purpose (either different sport or non-sport) is used.

Basis

- Precedent based on previous Olympic Games.
- IF recommendations and input.
- Also see the [Technical Manual on Media](#)
- Determined by local code or legislation.

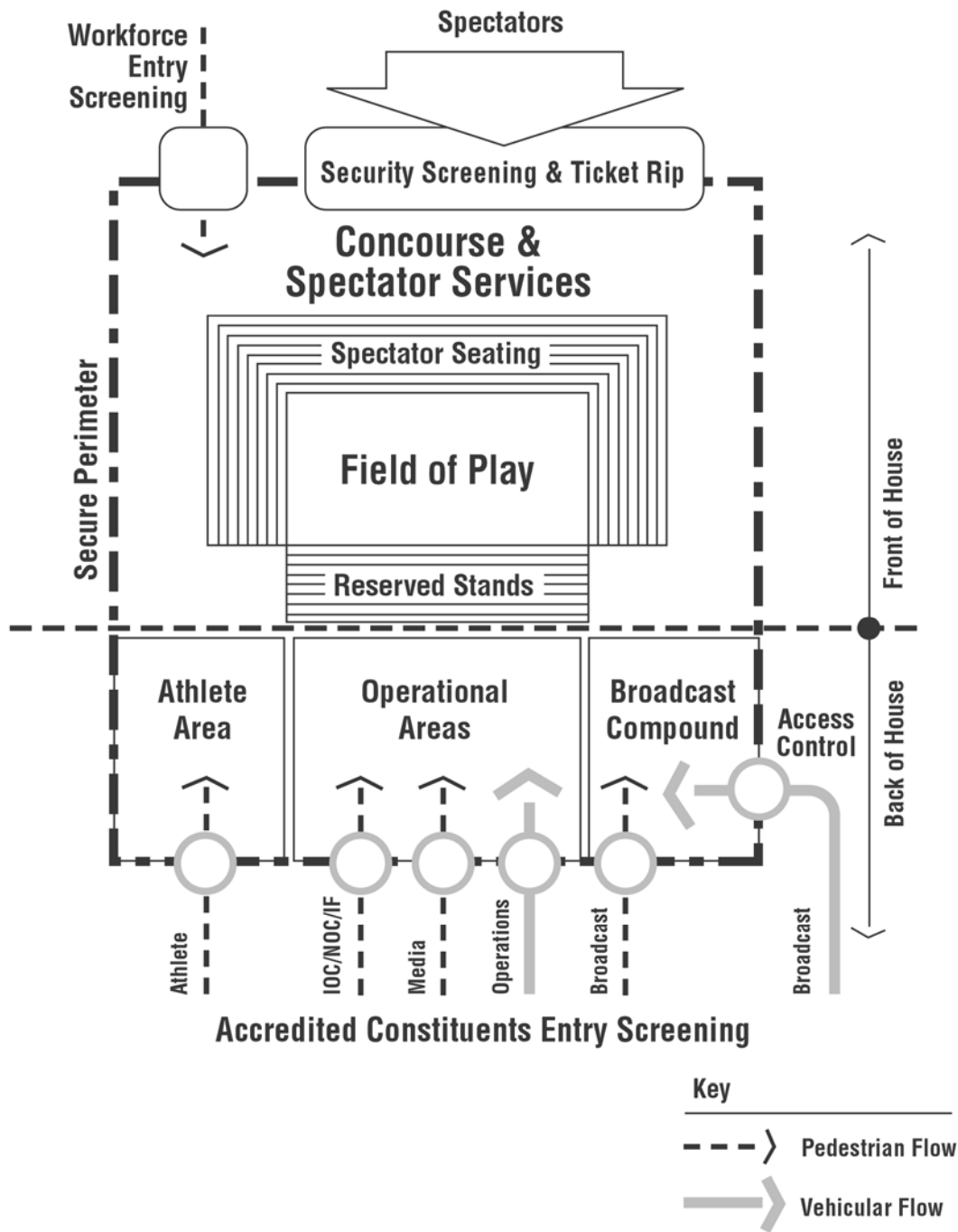
Winter Games Note

- Consideration must be given to fence and barrier lines that are often placed near the edge of the Field of Play for the management of pedestrians and vehicles away from dangerous terrain or areas of “clean snow”.
- Snow is required to be kept in pristine condition for several reasons. Foreign objects, debris and dirt must be kept off of the field of play surface for the technical requirements of competition.
- Well kept surrounding snow is required for broadcast camera views and the general image of the event for visitors. These issues should be considered in the overall sight line studies for seating and standing areas.



1.6 Venue Diagrams

Venue Interior In the diagram below, a basic model has been developed that presents a general layout of a competition venue.

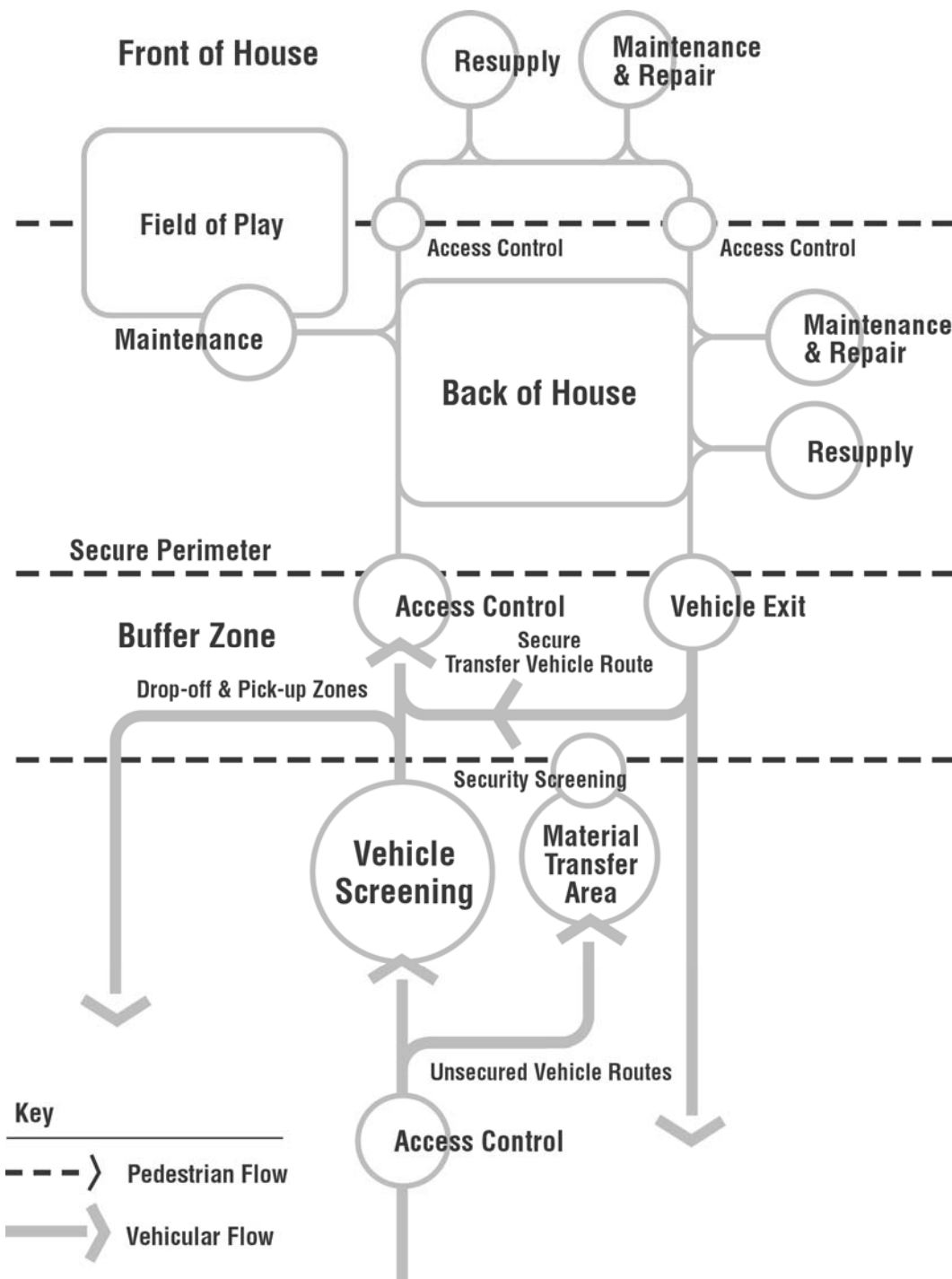


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1.6 Venue Diagrams, Continued




Operation and Service Vehicles In the diagram below, a basic model has been developed that presents the general flow of operation and service vehicles throughout the venue.





1.7 Lighting, Power, and HVAC

Introduction During the Olympic Games, venues may require additional capacity of power, lighting, and heating/ventilation/air-conditioning in various areas to support the overall competition and operation.

Lighting    At all competition venues a certain provision of lighting for sport, broadcast and photographers will be required during the competition.

Principles

- The lighting at each Olympic competition venue must meet the sport's technical requirements and must be of the highest quality for television and photographic coverage, identified at not less than 1400 lux average for indoor sports; however the technical specifications and placement for lighting will depend on the competition and venue itself and must be established by the OCOG in consultation with the sport's International Federation (IF), OBS (Olympic Broadcast Services) and OCOG Press Operations. This is currently under review given the introduction of digital photographic requirements.
- Consistent colour temperature.
- Placement to be approved by Sport and Broadcast.
- No glare allowed for athletes, cameras or commentators.
- Additional theatrical lighting needed for some sports and ceremonies.
- No strobe lighting permitted.
- Lighting may not be required for spectator areas, e.g. outdoor venue with day-time use; however, this will vary by sport.

Basis

- Also see the [Technical Manual on Media](#)
- IF regulations on sport technical lighting requirements.
- Precedent based on previous Olympic Games.

Continued on next page



1.7 Lighting, Power, and HVAC, Continued

Additional Lighting Needs

Note

Additional lighting requirements may be necessary in the venue due to various operations occurring in the darkness or partial darkness (early morning or evening).

The following examples may apply:

- The transport of constituent groups to the venue including entry/exit and security screening areas may require additional lighting when operating in the dark.
- The venue servicing and pre-opening/post-closing maintenance periods may be conducted in darkness.
- Weather delays push the competition period into the early morning, late afternoon or early evening.
- Weather conditions and terrain require that additional lighting be provided for roadways and pedestrian pathways for servicing and safe passage.
- Operations staff, especially those on roadways and parking areas, should be in view of vehicle operators.

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1.7 Lighting, Power, and HVAC, Continued

Power



Due to the nature of the event and the various functional areas and/or services required to support the Olympic competition, power demand is likely to increase beyond the current power capacity at existing venues. To meet this demand installation of additional power will be required.

Principles

- Power requirements and demand at each Olympic venue are met by a variety of sources.
- Power sources are arranged and used in several configurations to meet different technical and operational needs.

Basis

- Availability of power systems/sources determined by local codes/standards and functional requirements of involved stakeholders (e.g. Broadcast).
- Governed by local electricity standards or, in the absence of local, the Institute of Electrical & Electronic Engineers (IEEE) or European Union (EE) standards.

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1.7 Lighting, Power, and HVAC, Continued

Power Source Systems

Below are various sources of power that may be used at an Olympic venue.

Power Type	Description
Existing Utility Infrastructure	<ul style="list-style-type: none">• High voltage system up to main transformer(s) and meter(s) that already exist at the venue
Existing House Power (Mains)	<ul style="list-style-type: none">• Primary and secondary power distribution systems.
Temporary Power	<ul style="list-style-type: none">• Augmenting the existing house power (e.g. temporary cabling) or using generating power systems.• Temporary power is typically 20% cabled utility power and 80% generated power.
Back-up /Standby Power	<ul style="list-style-type: none">• Existing in-house generated power (generators already existing in the venue) or temporary installed generating systems.• Back-up power is usually automatically controlled.• Standby power is usually a manual response or manually controlled.
UPS Power (Uninterrupted Power Supply)	<ul style="list-style-type: none">• UPS – equipment/systems with electronics and batteries that prevents a temporary break in power, fed through utility power or utility + generated power supply.• UPS removes/takes out voltage surges• UPS or independent isolation systems (transformers) serve as harmonics filters.

Continued on next page



1.7 Lighting, Power, and HVAC, Continued

Power Supply Categories

In general terms for previous Olympic Games, power categories have been classified as follows.

Category	Description
Mains	<ul style="list-style-type: none">• Utility Power fed from two independent high voltage substations.
Standby	<ul style="list-style-type: none">• Utility + Generator back-up; this is where the standby board is fed both by mains and a back-up generator.
Domestic	<ul style="list-style-type: none">• Utility + generator back-up; generally provided for Olympic Broadcaster (OB).
Technical	<ul style="list-style-type: none">• Twin generators + utility + isolation transformer, generally provided for Olympic Broadcaster (OB).• A differentiation must be provided for technical power of the IBC and Venue Compounds according to local conditions
Generator	<ul style="list-style-type: none">• Primary power source. Standby power source. Note: the declaration of a generator as primary or standby carries a great cost difference <ul style="list-style-type: none">• Outdoor venues (e.g. Outdoor winter venues) have higher needs for generated power where they are inaccessible for utility power hook-up

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1.7 Lighting, Power, and HVAC, Continued

Power Area Needs

Following are the various areas that may require additional power needs at an Olympic competition venue.

Area	Power Needs
General Venue	<ul style="list-style-type: none">• Use existing (house\mains) power distribution systems and augment as required to provide sufficient power for event loads/event requirements by upgrading mains power supply to venue and using temporary generators and cabling.• Venue spaces critical to the operations which use technology systems to manage their operations, such as accreditation, doping, finance, logistics, medical, ticketing, venue operations, venue communications and security are provided with standby (utility + generator power) + utility. Generally UPS is provided to back-up 1 x selected PC workstation at each operational location as well as VCC radios.• Other BOH support services locations for Catering, Venue Staffing, Workshops, storage, and other non-event critical spaces are provided with mains (utility) power only.

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1.7 Lighting, Power, and HVAC, Continued

Power Area Needs (continued)

Area	Power Needs
Technology Systems	<ul style="list-style-type: none"> • Primary technical spaces to be supplied with both independent mains (utility) & standby (utility + generator back-up) supporting both A & B systems (that is an A-server & B-server) are: Telecommunications Equipment Room (TER), Computer Equipment Rooms (CER/LAN Mgmt), Olympic Venue Results (OVR) & Network Distribution Frames (CCF) • Dual UPS back-up with two feeds, one from utility with independent cabling & the other from utility + generator standby; one for each system, provided to CER/LAN & OVR rooms. Specific equipment only within TER room will require UPS back-up. CCF rooms/cabinets to receive UPS, usually rack mounted, supporting active equipment. • Olympic Venue Results (OVR) systems located remote from OVR room (FOP, warm-up etc) to be supplied with both mains & standby generator power, supporting A&B systems respectively. Local UPS to be provided for each OVR system at device location. • Timing & Scoring Equipment & Scoreboard Control to be supplied with standby (utility + generator backup) & UPS at device location. • Public scoreboards & video boards to be provided with mains (utility) power. • Selected sport-specific scoreboards usually plasma screens to be provided with UPS power. • Audio Visual Control Equipment & Wired Communications Control Equipment to be supplied with UPS. • Results Print (PRD) room to be provided with standby (utility + generator) power. Print servers only to be provided with back-up. • Remaining Technology Operations Spaces (Help Desk, Venue Technology Operations, and Radio Distribution) to be provided with standby (utility + generator) power. 1 x Technology Help Desk PC to be provided with UPS back-up.
Media Needs	<ul style="list-style-type: none"> • Broadcast spaces - TOC, CCR, and commentator positions are operated on utility generated power with either house power back-up (where accessible) or generator power backup in addition to a UPS. • Key press operations spaces: press workroom, photo work room & Olympic News Service (ONS) work area to be supplied with both mains (utility) & standby (utility + generator) power. Olympic News Service input data PCs to be provided with UPS power.

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1.7 Lighting, Power, and HVAC, Continued

Power Area Needs (continued)

Area	Power Needs
FOP Infrastructure	<ul style="list-style-type: none">• FOP lighting is operated on generated or house power and backed up with generated power.• Half of FOP lights to be operated from generator power during competition.• Note in many cases half of FOP lighting will not guarantee continuation of play. IFs must specify minimum level of lighting for play continuation with subsequent design of power feeding network.• Winter Games-field of play snow - the need for snow making systems or on-site/off-site snow reserves should be assessed at each outdoor venue. The power, hydraulic and mechanical requirements for snow making systems is costly and requires specialised construction, infrastructure, and maintenance.
Special Systems	<ul style="list-style-type: none">• Systems such as security monitoring, emergency lighting, etc. are operated with house power or generated power and backed-up with UPS power.• HVAC equipment to CER, LAN Management, TER, OVR, Timing & Scoring (room), Press ONS/Work Area to be provided with fully redundant mains (utility) & standby (utility + generator) power supply.

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1.7 Lighting, Power, and HVAC, Continued

Heating, Ventilation and Air-conditioning (HVAC)



In specified spaces or areas it may be necessary that a certain climatic level be maintained to allow the Function to operate efficiently.

Note

For Winter Games, electrical power is generally used for heating temporary trailers and containers. Tent structures are generally heated by storage, burning and distribution of natural gas. This system requires additional area for gas storage tanks (including safety buffer zones), distribution lines & mechanical units, and setback zones away from roadways including vehicle barriers. These elements occur throughout the venue site and should be considered early in the planning process.

Principles

- Functionality – a reasonable level of comfort to allow for safe performance of work responsibilities.
- Equipment performance level – maintaining a consistent level of operation without being interrupted by overheating or cold.
- Relative to climate.

- Environmental considerations, climatic conditions and new technologies must be considered when determining HVAC needs.

Basis

- Precedent based on previous Olympic Games.
- Determined by local code or legislation
- Also see the [Technical Manual on Media](#)



1.8 Security Impact on Design

Security Principles



Many characteristics of an Olympic Games competition venue are unique when compared to a venue that hosts regular sporting events. During the Olympic Games a venue may require installation and/or additional temporary structure requirements to support not only the security operation but also the overall venue operation during the Olympic Games period.

Principles

Venues should be:

- Designed and built with up to date threat level assessments and standard Olympic Games requirements in mind.
- Planned in advance.
- Capable of adjusting to changes in threat levels.

Note

At mountain and remote venues, the secure perimeter is often an assortment of fence types, observation and warning structures, and non-fenced patrolled areas using additional staff on foot and in vehicles over several kilometres (e.g. 12km). The material and staffing resources should be considered in all venue design and layout studies to best develop the operational and cost impacts.

Impacted security equipment can be:

- Closed circuit television cameras (CCTV), control rooms, data and electrical circuits, access control and monitoring equipment.

Note

The installation of this equipment after a venue is complete will increase costs significantly. By identifying the requirements for security systems during the design phase, cost and installation time will be significantly reduced. The infrastructure may remain as a legacy item for the future operation of the venue.

Basis

- Precedent based on previous Olympic Games.
- International Security Industry advice.
- Determined by local code or legislation.

Continued on next page



1.8 Security Impact on Design, Continued

Technology Impact

Principles

- The final technology layout may not be fully known until about one year before the Games.

Note

This is due to the uncertainties that can arise in meeting the requirements of other parties, such as the Functions responsible for the overlay or Games image, the sponsors and broadcasters, each of whom will be installing temporary equipment and/or facilities that can have a significant impact on security equipment design and layout.

Basis

- Security advice based on previous Olympic Games.



1.9 Safety of the Venue

Emergency and Safety planning



A venue may be significantly altered by the installation of overlay for the Games time period. It is essential to develop updated emergency and safety plans that reflect the design changes of the venue and the current legislation of the host country/city as a minimum requirement.

Winter Games Note

Weather conditions, roadway and pathway conditions, remote and mountainous sites place additional burden on the overall emergency and safety-planning scheme of each venue. Additional materials, land area, servicing time, staffing and resources are often required for operating a safe Winter Games venue.

Principles	
Evacuation / Escape System	<ul style="list-style-type: none">• Venue designs that change the layout may, in some circumstances, increase the safety requirements and the need for additional public assembly areas.• In the case of an emergency, a rapid evacuation and dispersal of spectators may be necessary; therefore both permanent and temporary venue designs should have organised evacuation routes that have been integrated into the venue design.• Plans for the existing facility should be considered along with the Olympic overlay that will be installed (e.g. tents, stands, trailers, fences).• Evacuation plans for FOH (spectator areas) should be independent of the evacuation route used for BOH (Athletes, Olympic Family).• Provisions should be developed for persons with accessibility needs (e.g. wheelchairs).

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1.9 Safety of the Venue, Continued

Emergency and Safety planning (continued)

Principles	
Emergency Vehicle Access and Parking	<ul style="list-style-type: none">• Vehicular access for ambulance and emergency vehicles should be planned with pedestrian flows and efficiency in mind.• Parking should be in close proximity to spectator areas and FOP with designated routes out of the venue.• Helicopter landing pad and/or area may be necessary for certain venues.
Audio capability	<ul style="list-style-type: none">• A public address system should be in place and available to communicate messages to all constituent groups if an emergency arises.
Lighting	<ul style="list-style-type: none">• A suitable level of lighting for required spaces and corridors or pathways.• Sufficient back-up emergency lighting for spaces/corridors/ pathways.
Fire Safety	<ul style="list-style-type: none">• An automatic alarm system should be installed in the facility.• Fire extinguishing systems (portable and fixed) should be installed and distributed throughout the venue.• Appropriate signage identifying safety equipment should be posted throughout the facility.
Lightning Strikes	<ul style="list-style-type: none">• Design measures should take into consideration the risk of a potential direct or indirect lightning strike and proper precautionary steps should be incorporated into the venue and overlay.
Basis	
<ul style="list-style-type: none">• Precedent based on previous Olympic Games.• Determined by local code or legislation.	



1.10 Look of the Games and Signage

Look of the Games



Look of the Games relates to the implementation of an integrated identification, decorations and way finding signage programme for all Games locations and venues. The Look of the Games includes the graphics that may be applied to banners, towers, etc. in order to provide uniform design and imagery to Olympic venues.

Winter Games Note

The maintenance and repair of winter venue signage and Look of the Games elements requires additional time, staffing and resources for the following reasons:

- Snow and ice often obscure sign information and Look graphics, which must be removed.
- High winds and other severe weather conditions, along with theft & vandalism of signs and Look elements in remote areas require that back stock of replacement inventory be stored, staged and installed.
- Field of Play Look elements mounted into or placed on snow require adjusting according to weather conditions, require temporary removal and replacement for snow maintenance on and near competition courses, awards presentation areas, and “clean snow” areas which must be maintained for broadcasting purposes.

Principles	
Types	Description
Free Standing	<ul style="list-style-type: none">• Landmark towers, sponsor recognition.
Flag and Banner Poles	<ul style="list-style-type: none">• With foundations, weighted bases, on existing structures.
Fence Lines	<ul style="list-style-type: none">• Fabric covering.
Fabric Wraps	<ul style="list-style-type: none">• Grandstand, Camera Towers, Cable and pedestrian bridge fabric wraps.
Existing facility Elements	<ul style="list-style-type: none">• Covering of existing facility elements (e.g. stadium signs or graphics not pertaining to the Olympic Games).
Basis	
<ul style="list-style-type: none">• Precedent based on previous Olympic Games.• Determined by local code or legislation.	

Continued on next page



1.10 Look of the Games and Signage, Continued

Signage



The competition venue will consist of a standardised signage program that will be implemented into the venue design for the Olympic Games period.

Principles	
Identification	<ul style="list-style-type: none">• Signage identifying venue locations, buildings and/or areas.
Way finding	<ul style="list-style-type: none">• Visual identification and directional information comprised of easily understood graphic symbols and text.• Way finding is designed and placed throughout the venue exterior and interior to guide constituents from the transport drop-off point in the direction of the venue and to the various locations within the venue (i.e. seating, merchandise).
Basis	
<ul style="list-style-type: none">• Precedent based on previous Olympic Games.• Determined by local code or legislation.	

The list below outlines methods of installation used for signage at competition venues.

Installation Methods

- Set in bases with text panels.
- Moveable bases or frames.
- Attached to existing or temporary structures or building faces.
- Suspended from existing or temporary structures.



1.11 Venues for Sustainable Development

Venues for Sustainable Development X

As stated in the [Olympic Charter](#), part of the role of the IOC is to take measures to promote a positive legacy from the Olympic Games to the host city and the host country, including a reasonable control of the size and cost of the Olympic Games, and encourage the Organising Committees of the Olympic Games, public authorities in the host country and the persons or organizations belonging to the Olympic movement to act accordingly.

This role is reinforced in the Olympic Games Study report in part IV of this document.

Specific to sourcing venues for Olympic Games use, the IOC's philosophy is:

- To use existing venues, with refurbishment if needed to the required Olympic standard,
- Build new permanent venues only if there is a legacy need,
- Seek a temporary solution, where there is not a legacy need.

Outdoor Venues Occupation of Public Land

Proposed competition venues often occupy public land, including urban parkland, national parks, natural and cultural heritage sites, city streets and even World Heritage sites.

On such sites, any proposed venue developments – whether temporary or permanent – are often subject to strict conditions and construction procedures and techniques, and long assessment, approval and review processes by authorities. These procedures and processes should be strictly adhered to in order to fulfil contractual obligations, safeguard the image and credentials of the Olympic movement, and follow sustainable development principles.

Actions

The following actions should be carefully and clearly carried out:

- Identification of the nature and potential timelines of assessment and approval processes pertaining to any particular venues, and the factoring of those into the schedule;
- The identification of relevant authorities, and their roles and powers, in those processes;
- The determination of the particular conditions, procedures and techniques pertaining to the development of the venues;

Note

Given the above steps, the identification and allocation of adequate time and resources to properly carry out the venue development in compliance with conditions and regulations.



1.12 Paralympic Games

Principle Paralympic Games design aspects should be considered as part of the same process of designing Olympic venues. This should ensure eventual cost savings, and should minimise the additional work required during the transition period between Olympic Games and Paralympic Games.

Transition Period Planning The transition period philosophy should be to minimise the number of changes necessary to transform a venue or service from Olympic Games mode to Paralympic Games usage. Some important considerations in the transition planning process are as follows:

- Transition period activities and types.
- Transition period timelines

Transition Period Activities and Types The common types of transition activity and the corresponding requirements for the Paralympic Games include:

Activity	Type
Olympic to Paralympic Venue	<ul style="list-style-type: none">• No functional change – same use as in Olympic Games.
Olympic to Paralympic Venue	<ul style="list-style-type: none">• Functional change – different use than Olympic Games.
Paralympic Specific Venue	<ul style="list-style-type: none">• Function is created specifically for Paralympic Games.
No Transition Activity	<ul style="list-style-type: none">• Same function for both Games.

Continued on next page



1.12 Paralympic Games, Continued

**Transition
Period Timeline**
X ▶ IPC

While each Function and venue specific transition period may vary, the global timeline for the transition period activity is reflected in the table below, where G refers to the first day of Paralympic Games competition.

Transition Period Timeline	Activity
G-12 days	<ul style="list-style-type: none"> • Closing of Olympic Village.
G-7	<ul style="list-style-type: none"> • Opening of Paralympic Village. • Opening of Paralympic Family Hotel.
G-6 days	<ul style="list-style-type: none"> • Access to Training Facilities.
G-5 days	<ul style="list-style-type: none"> • Opening of MPC / IBC.

Paralympic Games	Activity
Day 0	<ul style="list-style-type: none"> • Opening Ceremony.
Days 1-11	<ul style="list-style-type: none"> • Competition Days.
Day 12	<ul style="list-style-type: none"> • End of Competitions. • Closing Ceremony.

Principles

Paralympic Games Transition Period

- Short-term requirements – FOP adjustments, increased accessibility, ceremonies, etc.
- Modification of media mixed zone for accessibility.
- Modification of athlete/team locker rooms and access to athlete lounge areas and FOP.
- Modifications in way finding signage and look of the Games elements.
- Set-up and rehearsal of venue technology at Paralympic Games scope.
- Possible reduction in venue spectator capacities but increased number of accessible seats.
- Modifications for tribune seating.
- Reduction in security parameter and venue parking.
- Accessible load and unload zones for athletes, officials, Paralympic Family and competition equipment.

Basis

- Also see the [Technical Manual on Paralympic Games](#)
- Precedent based on previous Olympic Games and Paralympic Games.





2.0 → Explanation of Venue Design Standards Matrices

Executive Summary

Introduction This chapter explains the content of the Venue Design Standards Matrices that have been defined for planning Olympic competition venues and provides the general principles as well as design and construction principles for venue design.

It must be noted that the design standards are not requirements unless stated in the matrix and are established in this document as a guide for venue design.

Description The following matrices have been developed as a guide for Olympic venue design:

- **General Principles:** General principles that apply to all competition venues.
- **Design and Construction Principle:** Design and Construction principles that apply to all competition venues.
- **Competition Venue(s):** Design standards for all functional area spaces in each sport-specific competition venue.

Contents This chapter contains the following topics:

Topic
2.1 General Principles and Design and Construction Principles



2.1 General Principles and Design and Construction Principles

Overview

Introduction This section describes the elements that are found in the matrices for both the general design principles, and design and construction principles at the Olympic Games. The relevant matrices are found after this explanation.

Contents This section contains the following topics:

Topic
2.1.1 Structure of Matrices
2.1.2 General Principles Matrix
2.1.3 Design and Construction Principles Matrix



2.1.1 Structure of Matrices

Introduction This section lists and explains the columns in the General Principles and the Design and Construction Principles matrices.

Principles and Description A list of principles that apply to all competition venues. Where necessary, further explanation of the principle is provided.

Principles of Stakeholder Involvement Establishes the levels of input and decision by Olympic constituent groups for each specific area of a competition venue. The International Paralympic Committee (IPC) is listed as a stakeholder for involvement in venue planning for the Paralympic Games.

Levels of Stakeholder Involvement Each stakeholder typically has a certain level of input for the areas or design factors directly affecting their Function at the competition venue. The levels of input are listed in the table in the following manner:

I	Input
J	Joint Decision
F	Final Decision

Note:

- If the box is blank, this indicates that no input is needed.
- When determining Olympic needs, should there be lack of agreement amongst various stakeholders; the IOC would assist to resolve such matters.

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2.1.1 Structure of Matrices, Continued

Source of Principle

The principle is listed as a:

- **Requirement (R)** – an obligation that must be met in venue design.
- **Guideline (G)** – a recommendation that could be met in venue design.
- **Precedent (P)** – based on previous Games experience.

Source of Requirement or Guideline

There are three (3) sources of the requirement or guideline that may apply:

- International Olympic Committee (IOC)
- International Federations (IFs)
- Legislation (L).

Generic/Sport-specific

The principle is categorised as either:

- Generic (G) – that is, applicable for all competition venues
- Sport-specific (S) – that is, variable by sport

2.1.2 General Principles Matrix

		Principles of Stakeholder Involvement: I-Input, J-Joint Decision, F-Final Decision										
Principle	Description	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	G-Generic, S-Sport-s-specific
Stand-alone or precinct/cluster venue(s)	-	I		J	J		I	I	I	G	IOC, IF	G
Located in Host City or other cities	-	I		J	J		I	I	I	G	IOC, IF	G
Olympic/Paralympic functions to be carried out in the venue	-	I	I	I	F	I		I	I	R, P	IOC, L	S
Legacy functions to be carried out in venue	-	I				F	I			G	IOC	S
Back of House (BOH)/Front of House (FOH) separation	The BOH area is only accessible to appropriately accredited people. FOH is the area within a venue accessible to ticketed spectators and other constituents, located after the ticket-rip point.	I		I	F					G	IOC	G
Constituent group segregation	Developing separate routes, generally avoiding crossing over in the venue	I		I	F			I	I	R	IOC, IF	G
Accreditation zones	Designated access areas within the venue that regulate the movement of people into/within an Olympic venue	I		I	F				I	R	IOC	G

2.1.3 Design and Construction Principles Matrix

		Principles of Stakeholder Involvement: I-Input, J-Joint Decision, F-Final Decision										
Principle	Description	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	G-Generic, S-Sport-s-specific
Relative locations of space	What affinities are required or recommended	I		I	F			I	I	G	IOC, IF	G
Dedicated or shared space	-	I		I	F			I	I	G	IOC, IF	G
Design approval	Approval process	J	I	J	J	I	I	I	J	R	IOC, L	G
Space required to carry out legacy functions	-				J	J			I			S
Permanent or temporary	Construction type; popularity of sport in host country	I		I	F			I	I	G	IF, IOC	G

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2.1.3 Design and Construction Principles, Continued

Principle	Description	Principles of Stakeholder Involvement: I-Input, J-Joint Decision, F-Final Decision								R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	G-Generic, S-Sport-s-specific
		IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC			
Fit-out:												
Quality of FF & E (e.g. floors, walls, furniture)	-	I	I	I	F	I		I	I	P		G
Number of FF & E	-	I	I	I	F	I		I	I	P		G
Signage	Design			I	F	I			I	P		G
Heating, Ventilation and Air-Conditioning (HVAC)	Design	I			F			I	I	P		S
Temporary structure types	e.g. tents, trailers, toilets, restrooms, trailers, canopies, generators, fencing; seating - permanent/temporary seating	I			F	I	I	I	I	P		G



3.0 → Competition Venues

Executive Summary

Introduction This section outlines the number of competition venues and venue gross seating capacities, generic venue spaces and explains the method of developing the venue design standards and the structure of the matrices for competition venues.

Important Note

The Design Standards for Competition Venues are not requirements unless stated in the matrix and are established as a guide for venue design.

Contents This section contains the following topics:

Topic
3.1 Number of Venues and IOC Venue Gross Seating Capacity
3.2 Generic Venue Spaces
3.3 Method of Developing Matrices
3.4 Structure of Matrices
3.5 Competition Venue Matrices and Printing Instructions



3.1 Number of Competition Venues & Venue Gross Seating Capacity

Introduction The number of competition venues and venue gross seating capacities are important components of venue design for the Olympic Games. There are certain variations in the number of venues and factors that influence venue gross seating capacities should be considered when determining the final number of venues and the final venue gross seating capacities.

Variations in Number of Venues Certain factors should be taken into consideration that will affect the number of venues required for the Olympic Games. In the table below these principles are listed with various points that should be considered when developing venue design.

Secondary Venue or Field of Play
<ul style="list-style-type: none">• A secondary venue and/or FOP may be necessary if a single venue and/or FOP will not permit the current competition to be completed within the required Olympic programme.• This may be due to variables such as climatic conditions affecting the competition schedule for an outdoor venue (e.g. heat at midday).• This information is listed in the IOC Venue Gross Seating Capacity, under those competition venues that may be affected by this principal.

Continued on next page



3.1 Number of Competition Venues & Venue Gross Seating Capacity, Continued

Variations in Number of Venues (continued)

Preliminaries and Finals

- Although for most sports, one venue would be sufficient to stage both the preliminary and final rounds of competition; past Olympic Games have seen the use of different venues for some sports.
- These venue decisions have primarily been driven by the wish to maximize use of venues with large capacities for final rounds.
- As an example, basketball finals could be staged in the second week in the venue used by artistic gymnastics in the first week. This allows a venue of lesser capacity to be used for basketball preliminaries, while the finals move to a venue of greater capacity.

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3.1 Number of Competition Venues & Venue Gross Seating Capacity, Continued

Variations in Number of Venues (continued)

Sharing Venues

- A key principle relevant to venue design is sharing venues wherever possible according to the technical feasibility and competition format and schedule.
- Venue sharing and venues located adjacent to each other will eliminate some duplication of functional area spaces and services (e.g. a joint Venue Media Centre (VMC) covering two or more adjacent venues).
- In the venue design process some options for sharing venues are:

SUMMER

- Athletics & Football Finals (Ceremonies/Main Stadium); Marathon & Race Walk may finish in main stadium.
- Badminton & Rhythmic Gymnastics
- Basketball Preliminaries & Handball Finals
- Basketball Finals & Gymnastics - Artistic & Trampoline
- Cycling Time Trial may take place on sections of road course or share with the Triathlon cycling event.
- Judo & Wrestling
- Modern Pentathlon – use of existing venues (see capacity table for explanation)
- Rowing & Canoe-Kayak Flatwater
- Swimming & Water Polo Finals
- Table Tennis & Taekwondo or Gymnastics-Rhythmic
- Taekwondo & Handball Preliminary

WINTER

- Biathlon and Cross Country
- Alpine - downhill, slalom and giant slalom
- Alpine/Giant Slalom and Snowboard
- Figure Skating and Short Track Skating
- Luge, Bobsleigh and Skeleton
- Slalom and Freestyle



3.1 Number of Competition Venues & Venue Gross Seating Capacity, Continued

Determining Final Venue Capacities

For each Olympic Games these capacities must be considered with the following points in mind before determining final venue capacities:

- Capacity of any existing venue to be used,
- Capacity of any new venue for legacy use post-Games,
- Popularity of the sport in the host city, region and/or country or within the Olympic Games
- The ability to increase capacity on a temporary basis for Games use.

Seating Type

Seating types may consist of all permanent seating, all temporary seating or combination of both permanent and temporary seating.

Standing Areas

Standing capacities for relevant summer outdoor sport venues have not been included in the IOC Standard Gross Seating Capacity numbers except for winter sport venues where standing is more prevalent. There are many variables that affect these areas such as:

- Venue/city infrastructure
- Terrain, venue footprint and layout
- Sport popularity in the host city, region and/or country

Standing Capacities



To determine any standing capacities for those relevant outdoor sport venues, the OCOG should propose standing capacities to the IOC.

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3.1 Number of Competition Venues & Venue Gross Seating Capacity, Continued

Venue Gross Seating Capacity - Summer

The table below outlines the number of competition venues needed for each summer sport and the IOC venue gross seating capacities for each sport venue for Summer Games and Winter Games.

Sport	Number of Competition Venues	IOC Gross Seating Standard	Comment
Summer			
Archery	1	4 000	
Athletics	1 - Track & Field	60 000	<ul style="list-style-type: none"> Located at Main Stadium or Ceremonies Venue
	1 - Marathon/ Race Walk	-	<ul style="list-style-type: none"> Assumes event will finish in existing venue. See standing area comment at beginning of section 3.1.
Aquatics	1 - Diving	5 000	
	1 - Swimming	12 000	
	1 - Synchro	5 000	
	1 - Water Polo	5 000	
Aquatics	1 - Diving	5 000	
	1 - Swimming	12 000	
	1 - Synchro	5 000	
	1 - Water Polo	5 000	
Badminton	1	5 000	
Basketball	1 - Final	15 000	
	1 - Preliminary	15 000 <small>(finals venue used)</small> 8 000 <small>(different venue used)</small>	<ul style="list-style-type: none"> 15 000 if PL games are in finals venue; 8 000 if PL games are in different venue
Boxing	1	6 000	
Canoe/Kayak	1 - Flatwater	10 000	<ul style="list-style-type: none"> Shared venue with Rowing See standing area comment at beginning of section 3.1.
	1 - Slalom	8 000	<ul style="list-style-type: none"> See standing area comment at beginning of section 3.1.

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3.1 Number of Competition Venues & Venue Gross Seating Capacity, Continued

Venue Gross Seating Capacity - Summer (continued)

Sport	Number of Competition Venues	IOC Gross Seating Standard	Comment
Cycling	1 - Track/BMX	5 000	• For BMX, see standing area comment at beginning of section 3.1.
	1 - Mountain Bike	2 000	• See standing area comment at beginning of section 3.1.
	1 - Road/Time Trial	1 000	• See standing area comment at beginning of section 3.1.
Equestrian-Jumping/Dressage/Eventing	1	12 000	• See standing areas comment at beginning of section 3.1. for Cross Country.
		-	
Fencing	1	4 000	• Finals and Preliminaries in same venue
Football	1 - Final	50 000	
	4 - Preliminary	20 000	
Gymnastics	1 - Artistic/Trampoline	12 000	15 000 if Artistic/Trampoline in Basketball finals venue
	1 - Rhythmic	5 000	
Handball	1 - Final	10 000	
	1 - Preliminary	6 000	
Hockey	1	10 000	• A secondary venue and/or FOP may be necessary if a single venue and/or FOP will not permit the current competition programme to be completed within the required Olympic timetable. This may be due to variables such as climatic conditions affecting the competition schedule for an outdoor venue (e.g. heat at midday).

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3.1 Number of Competition Venues & Venue Gross Seating Capacity, Continued

Venue Gross Seating Capacity - Summer (continued)

Sport	Number of Competition Venues	IOC Gross Seating Standard	Comment
Judo	1	8 000	
Modern Pentathlon	1 - Shooting/ Fencing	3 000	<ul style="list-style-type: none">Fencing and shooting can be conducted in a temporary adaptation of a normal indoor sports hall.
	1 - Swimming	12 000	<ul style="list-style-type: none">Swimming can be conducted at any suitable pool locationIOC standard assumes use of pool for Aquatics.
	1 - Ride/Run	10 000	<ul style="list-style-type: none">The ride and run can be conducted on a grassy area (outdoor venues).
Rowing	-	12 000	<ul style="list-style-type: none">Shared venue with Canoe-Kayak FlatwaterSeating capacity including the FISA family stand.See standing area comment at beginning of section 3.1.
Sailing	1	250	<ul style="list-style-type: none">Accredited seats only.
Shooting	1	3000	
Table Tennis	1	5 000	
Taekwondo	1	5 000	

Continued on next page



3.1 Number of Competition Venues & Venue Gross Seating Capacity, Continued

Venue Gross Seating Capacity - Summer (continued)

Sport	Number of Competition Venues	IOC Gross Seating Standard	Comment
Tennis	1	10 000	• Centre Court
		5 000	• Show Court 1
		3 000	• Show Court 2
		250	• Court(s) 3-9
Triathlon	1	2 500	• See standing area comment at beginning of section 3.1.
Volleyball	1 - Indoor	15 000	
	1 - Beach	12 000	
Weightlifting	1	5 000	
Wrestling	1	8 000	

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3.1 Number of Competition Venues & Venue Gross Seating Capacity, Continued

Venue Gross Seating Capacity – Winter Games The table below outlines the number of competition venues needed for each winter sport and the IOC venue gross seating capacities for each sport venue for Summer Games and Winter Games.

Sport	Number of Competition Venues	IOC Gross Seating Standard	Comment
Winter			
Alpine Skiing	1	8 000	10 000 Standing
Biathlon	1	5 000 – 7 000	10 000–15 000 Standing
Bobsleigh/Skeleton	1	1 000	10 000 Standing • Shared venue with Luge.
Cross Country Skiing	1	3 000	10 000 Standing
Curling	1	3 000	
Figure Skating/Short Track Skating	1	12 000	Shared venue between Figure Skating and Short Track Skating.
Freestyle Skiing	1	4 000	10 000 Standing
Ice Hockey	1 - Ice 1	10 000	
	1 - Ice 2	6 000	
Luge	-	1 000	10 000 Standing • Shared venue w/Bobsleigh/Skeleton.
Ski Jumping	1	3 000	10 000-15 000 Standing
Snowboard	1	4 000	10 000 Standing
Speed Skating	1	6 000	



3.2 Generic Spaces

Generic Spaces by Function The following table lists, by function, the spaces that are generic in size for all venues. All remaining spaces are sport-specific in size and are listed in each matrix.

Function	Generic Space(s)
Accreditation	<ul style="list-style-type: none">• Manager Desk or Office & Storage• Secondary Accreditation Office
Broadcast	<ul style="list-style-type: none">• Manager Office• Pre & Post-Competition Interview Area• Commentator Positions• Commentator-Camera Positions (Com-Cam)
Catering	<ul style="list-style-type: none">• Beverage Contractor Office• Spectator Points of Sale
Ceremonies	<ul style="list-style-type: none">• Manager Desk• Presenter Preparation & Dressing• Mascot Dressing Room• Victory Ceremony Flags
Cleaning & Waste	<ul style="list-style-type: none">• Waste & Recycle Container
Doping Control	<ul style="list-style-type: none">• Processing Room• Toilet and Sink Area• Office• Athlete Tagging
Event Services	<ul style="list-style-type: none">• Manager Desk• Public Information• Wheelchair Rental• Contraband Storage• Ticket Rip• Environmental Kiosk• Stroller Storage• Water Station• Pay Phones• Spectator Rest Stop• Designated Smoking Area
Finance	<ul style="list-style-type: none">• Manager Desk• ATM
Logistics	<ul style="list-style-type: none">• Logistics Manager & Assistant Manager(s) Office

Continued on next page



3.2 Generic Spaces, Continued

Generic Spaces by Function (continued)

Function	Generic Space(s)
Medical Services	<ul style="list-style-type: none">• Examination Area (Athlete & Spectator Medical)• Physiotherapy Area (Athlete Medical)• Office (Athlete Medical)• Ambulance Parking• FOP/Finish Area (Athlete Medical)• Medical Desk & Secure Storage (Spectator Medical)• Helicopter Landing Zone
Merchandise	<ul style="list-style-type: none">• Office, Cash Room & Work Area• Storage• Program Sales• Merchandise Points of Sale
Olympic Family	<ul style="list-style-type: none">• Welcome Desk & Transportation Desk• Protocol Manager Office
Press Operations	<ul style="list-style-type: none">• Press Manager Office• Photo Manager Office• Info Station• Press Work• Photo Work• Locker(s)• Press Tribune
Security	<ul style="list-style-type: none">• Manager & Assistant Manager Office• Security Work Area• Vehicle Screening & Sanitisation Area• Observation Platform• Vehicle Screening Office• Venue Perimeter Entrance (Pedestrian)
International Federation	<ul style="list-style-type: none">• IF President Office• IF Secretary - General/Executive Director's Office• Technical Delegate(s)
Technology	<ul style="list-style-type: none">• Telecommunications Equipment Room - TER 3 (Backup)• Results Printing – Primary and Secondary Areas• Audio Control
Ticketing	<ul style="list-style-type: none">• Manager Office & Secure Storage
Transport	<ul style="list-style-type: none">• Loading Zone• Parking Area

Continued on next page



3.2 Generic Spaces, Continued

Generic Spaces by Function (continued)

Function	Generic Space(s)
Venue Development	<ul style="list-style-type: none">• Site Manager & Assistant Manager Office• Site Administration Desk & Work Area• Construction Management Office & Team Staging
Venue Management	<ul style="list-style-type: none">• Venue Manager & Assistant Manager Area• Venue Communication Manager Desk• Mail Desk• Storage
Workforce	<ul style="list-style-type: none">• Manager Office• Information Desk, Lost and Found• Distribution Desk



3.3 Method of Developing Matrices

Matrix Development The Venue Design Standards matrix for each competition venue has been developed in the following way:

1	Venue
	<ul style="list-style-type: none">• Each venue has been identified as either:<ul style="list-style-type: none">- an “A venue”, meaning large size,- a “B venue”, meaning medium size or- a “C venue” meaning smaller size
2	Generic Spaces
	<ul style="list-style-type: none">• Each space that is generic, that is the same size for each venue, has been allocated a size, which has been applied across all venues.• Refer to 3.2. for a list of generic spaces.
3	Sport Specific Spaces
	<ul style="list-style-type: none">• Each space that varies by venue/sport has had an A, B or C size identified.• The relevant A, B or C size has been applied to the appropriate venues.
4	Variations to Sizes
	<ul style="list-style-type: none">• Variations to sizes have been made based on input from International Federations and from advisors in press, broadcast and technology.

Continued on next page



3.3 Method of Developing Matrices, Continued

Matrix Development (continued)

5 Gross Area Requirement		
<ul style="list-style-type: none">• This includes the total net area plus the additional surrounding space that may be necessary to meet additional technical requirements or building specifications; generally the total footprint that is required for the space or spaces.• The increase from net area to gross area requirement can range from 125% to 250% depending on the factors in the table below:		
Structure/Space Type	Increase Factors	Percent Increase
Existing Buildings	<ul style="list-style-type: none">• Circulation flows and ancillary building systems such as utility systems, stairs, elevators, etc.	<ul style="list-style-type: none">• 125%
Temporary Tent and Trailer Structures	<ul style="list-style-type: none">• Increase for: Mechanical/electrical systems, temporary toilets, pedestrian circulation, etc.	<ul style="list-style-type: none">• 150-250%
Compounds	<ul style="list-style-type: none">• Internal circulation spaces• Setbacks are generally the areas required around the interior and exterior perimeter of a compound, or the area required between structures for fire and maintenance access, snow removal, distance away from fence lines, etc	<ul style="list-style-type: none">• Varies
Important Note <ul style="list-style-type: none">• The total gross area for a venue does not include general site circulation requirements or inefficiencies due to the site being an irregular shape.• Total gross area for the venue is not indicated in the matrices.		

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3.3 Method of Developing Matrices, Continued

Matrix Development (continued)

6	Functional Area Description						
<ul style="list-style-type: none"> • A brief overview of the functionality of the space. 							
7	Affinity						
<ul style="list-style-type: none"> • The space location in the venue. 							
8	Functional Requirements						
<ul style="list-style-type: none"> • Characteristics of the space required for functionality. 							
9	Other Variables						
<ul style="list-style-type: none"> • Other factors that may affect the general size, layout or location of the space. 							
10	Principles of Stakeholder Involvement						
<ul style="list-style-type: none"> • Establishes the levels of input and decision by Olympic constituent groups for each specific area of a competition venue. • Note: the International Paralympic Committee (IPC) is listed as a stakeholder for involvement in venue planning for the Paralympic Games. • Stakeholder Level of Input: each stakeholder typically has a certain level of input for the areas or design factors directly affecting their function at the competition venue. The levels of input are listed in the table in the following manner: 							
<table border="1"> <tr> <td style="text-align: center;">I</td> <td style="text-align: center;">Input</td> </tr> <tr> <td style="text-align: center;">J</td> <td style="text-align: center;">Joint Decision</td> </tr> <tr> <td style="text-align: center;">F</td> <td style="text-align: center;">Final Decision</td> </tr> </table>		I	Input	J	Joint Decision	F	Final Decision
I	Input						
J	Joint Decision						
F	Final Decision						
<p>Note</p> <ul style="list-style-type: none"> • If the box is blank, this indicates that no input is needed. • When determining Olympic needs, should there be lack of agreement amongst various stakeholders; the IOC would assist to resolve such matters. 							

Continued on next page



3.3 Method of Developing Matrices, Continued

Matrix Development (continued)

11	Source of Principle
<ul style="list-style-type: none">• The principle is listed as a:<ul style="list-style-type: none">- Requirement – R: an obligation that must be met in venue design.- Guideline - G: a recommendation that could be met in venue design.- Precedent – P: based on previous Games experience.	
12	Source of Requirement or Guideline
<ul style="list-style-type: none">• There are three (3) sources of Requirement or Guideline that may apply:<ul style="list-style-type: none">- International Olympic Committee (IOC)- International Federations (IFs)- Legislation (L)	
13	Generic Principle
<ul style="list-style-type: none">• The principle is categorised as generic (G) for all competition venues.	



3.4 Structure of Matrices

Introduction The table in this chapter presents and provides explanation for each column in the competition venue matrix.

1	Functional Area Spaces
<ul style="list-style-type: none">• The functional area is presented in two components:<ul style="list-style-type: none">- Space: an area and/or space at the venue,- Sub-space: the functional area space may consist of several sub-spaces that make-up the overall space (e.g. a reception and waiting area is a sub-space within Athlete Medical).	
2	Net Area
<ul style="list-style-type: none">• Spaces are defined in terms of net area that is the total usable floor space required.	
3	Quantity
<ul style="list-style-type: none">• The number required (e.g. number of Camera Positions - 15, Toilets - 5).	
4	Total Net Area
<ul style="list-style-type: none">• The net area multiplied by the quantity gives the total net area required for the space or spaces.	



3.5 Competition Venue Matrices

Description – Summer Sports A matrix has been developed for each of the competition venues listed below. By clicking on the venue or link it will bring you directly to the competition venue matrix.

No.	Title – Summer Games Venues	
1	Archery	
2	Aquatics – Diving, Swimming, Synchronised, and Water Polo	
3	Athletics	Marathon / Walk
4		Track and Field
5	Badminton	
6	Basketball	Preliminary
7		Finals
8	Boxing	
9	Canoe-Kayak	Slalom
-		Flatwater / Rowing
10	Cycling	Mountain Bike
11		Road / Time Trial
12		Track / BMX
13	Equestrian – Eventing, Jumping and Dressage	
14	Fencing	

Continued on next page



3.5 Competition Venue Matrices, Continued

Description – Summer Sports (continued)

No.	Title – Summer Games Venues	
15	Football	Preliminary
16		Finals
17	Gymnastics	Artistic / Trampoline
18		Rhythmic
19	Handball	Preliminary
20		Finals
21	Hockey	
22	Judo	
23	Modern Pentathlon	
24	Rowing / Canoe-Kayak Flatwater	
25	Sailing	
26	Shooting	
27	Table Tennis	
28	Taekwondo	
29	Tennis	
30	Triathlon	
31	Volleyball	Indoor
32		Beach
33	Weightlifting	
34	Wrestling	

Continued on next page



3.5 Competition Venue Matrices, Continued

Description – Winter Sports A matrix has been developed for each of the competition venues listed below. By clicking on the venue or link it will bring you directly to the competition venue matrix.

No.	Title - Winter Games Venues	
1	Alpine Skiing	
2	Biathlon	
3	Bobsleigh / Skeleton / Luge	
4	Cross Country Skiing / Nordic Combined	
5	Curling	
6	Figure Skating / Short Track Skating	
7	Freestyle Skiing	
8	Ice Hockey	Ice 1
9		Ice 2
10	Ski Jumping / Nordic Combined	
11	Snowboard	
12	Speed Skating	

Printing the Venue Matrix The venue matrices consist of numeric and written information divided by columns and rows. It is recommended that, when viewing this information in a hardcopy/print format, the viewing capability should be increased. Below are recommendations for printing the document(s) to increase the viewing capability.

Printing
<ul style="list-style-type: none">• The matrix is in Excel spreadsheet format.• It is recommended that the document or pages you would like to print should be set to A3 (11" x 17") size paper.• It is recommended that you select the pages you would like to review for printing (e.g. 8-10, 15-20).• Printing in colour text format is not necessary.• A3 size paper will allow a comfortable format when reading a hard copy of a page(s) of the venue matrices document.

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation				
Accreditation																							
Venue Accreditation Office	40	1	40	100	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space. Enclosed space. May be required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.											P	-			
Day Pass Issue & Problem Resolution Desk	10	1	10	-																			
Work Area	12	1	12	-																			
Manager Desk or Office & Storage	12	1	12	-																			
Waiting Area	6	1	6	-																			
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	-	-	Located in temporary structure. Assumes container/trailer unit or tent.										P	-				
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.															
Broadcast																							
Broadcast Compound	-	1	-	2500	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements. Located in temporary structure. Assumes container/trailer unit or tent.										R	IOC				
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.											G	IOC			
Broadcast Manager Office	12	1	12	-		-	-	-	-														
Work Room, Assigned & Unassigned Desks	48	1	48	-		-	-	-	-														
Technical Operations Centre	30	1	30	75	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.											R	IOC			
Broadcast Catering	105	1	105	122	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Kitchen & Prep	15	1	15	-		-	-	-	Assumes container unit.														
Buffet Line & Dining	90	1	90	-		-	-	-	Assumes container unit or tent.														
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements. Assumes container units.															
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	-															
Mobile Unit(s)	65	Varies	Varies	-	-	-	-	-															
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters. Assumes container units.															
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	-															
Mobile Unit(s)	65	Varies	Varies	-	-	-	-	-															
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.															
Toilets	1.5	4	6	18	Toilet units designated for broadcast personnel.	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.															
Commentator Control Room	50	1	50	65	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in close proximity to commentator position area.	Enclosed space with incoming television cable.	Assumes existing space or container.											R	IOC			
Broadcast Information Office (BIO)	12	1	12	15	Space for broadcast management and team meetings.	Located near commentator positions and CCR.	Enclosed space.	Assumes existing space or container.											R	IOC			
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-											G	IOC			
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J								R	IOC			
Mixed Zone	20 linear mtrs.	1	20 linear mtrs.	120	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Adjacent to the FOP.	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I	I	J								R	IOC, IF			

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in seating areas with view to FOP and covered when possible.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Outdoor commentator positions should have the option of cover for protection from various weather conditions (e.g. sun, rain). Space for commentator positions may vary according to actual venue/permanent seating setup.			I	J						R	IOC
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	Located at the rear of the commentator grouping so as not to disrupt the FOP view of other commentator positions.	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	A com-cam position equals 2 adjacent commentator positions.			I	J							
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions	1 position = uses 1 seat in existing seating bowls.	-			I	J						R	IOC
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval. Space for camera positions may vary according to actual venue/permanent seating setup.	J		I	J						R	IOC
Camera Position - Other	4	15	60	135	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	Space for camera positions may vary according to actual venue/permanent seating setup.	I		I	J						R	IOC
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-										G	IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	-										G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in BOH areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.										G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography, in conjunction with OBS and IFs.	J									R	IOC
Catering																			
Catering Compound	394	1	394	600	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity.										P	
Work Areas - Catering Management	24	1	24	-		Generally, located in Catering Compound or possible the VOC.	Enclosed space.	Assumes existing space or container.											
Organising Committee Catering Manager	-	-	-	-		-	See Venue Management - VOC.	-											
Catering Contractor	12	1	12	-		-	-	-											
Beverage Contractor	12	1	12	-	Operational work space(s).	-	-	-											
Dry, Cold & Ice Storage	38	4	152	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.											
Vehicle Staging	50	1	50	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-											
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-											
Kitchen & Preparation Area	54	1	54	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.											
Uncovered Storage	50	1	50	-	Outdoor storage of material and products.	-	Area only.	-											
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	-											
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container(s). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity, level of catering activity.			I	F						P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	-											
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	-											
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue catering facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-			I	F						P	

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Ceremonies																				
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-			I	F							P	
Ceremonies Staging	20	1	20	25	For the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule; to coordinate location of podium, procession, and recession route, and location of flagpoles.	Adjacent to or close to FOP.	Consists of coordinator work space with area for secure storage, preparation and dressing area. See below for additional details.	Assumes existing space or container.			I	F							P	
Manager Desk	6	1	6	-	Work space for Manager.	-	-	-												
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenters, Medal/Flower staging, Secure medal and flag storage	12	1	12	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenter Preparation & Dressing	4	2	8	-	A dressing and preparation area for Presenters.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-												
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	-	Limited use, may be shared with other space. See Sport Presentation.	-												
Awards Podium Storage	8	1	8	12	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	Adjacent to FOP			I	F							P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.	I	J	J					J	G	R	IOC	
Cleaning and Waste																				
Cleaning & Waste Compound	175	1	175	250	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependent upon venue capacity.					F						P	
Vehicle Staging	50	1	50	-	Parking area for collection vehicles which generally remain inside the venue.	-	Area only.	-												
Sorting Area	50	1	50	-	Area for sorting waste.	-	Area only.	-												
Waste & Recycle Containers	15	3	45	-	-	-	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).												
Compactor Unit	25	Varies	Varies	-	Area in front of waste and recycle bins where material is separated for containment.	-	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.												
Equipment Supply & Storage	15	1	15	-	Space for cleaning equipment and paper product.	-	Enclosed space.	Assumes container unit.												
Contractor Office	15	1	15	-	Space for management and workforce staging.	-	Enclosed space.	-												
Doping Control																				
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	An Office and storage area will be incorporated into the existing spaces (e.g. waiting area/reception).	J	J	J								R	IOC
Waiting Area/Reception	16	1	16	20	Area where athletes check-in and wait prior to testing.	-	-	-												
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer. Wash basin for hand sanitisation.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-	I	J	J								R	IOC

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.										P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of staff pre and post shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large group.	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.										P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.										P	
Information Desk	-	-	-	-	-	-	-	-											
Lost & Found	-	-	-	-	-	-	-	-											
Assisted Listening Device Rental	-	-	-	-	-	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	Adjacent to Public Information.	-	-										P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes 12m away from covered search area.	Total number generally 50% of security screening positions.										P	
Stroller Storage	72	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	-	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.										P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.										P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators										P	
Spectator Shade & Shelter	1	Varies	Varies	-	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and event services areas.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.										P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-										P	
Spectator Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators.	-	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.										P	
Hand Wash Stations	1	Varies	Varies	6 (per 20 toilets)	A chemical unit used in the absence of potable water.	-	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.										P	

Space <small>(Sub-space(s))</small>	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Finance																				
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I		F						P		
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Generally located inside venue perimeter and outside venue perimeter.	Area only.	Quantity dependent upon venue capacity.		I		F						P		
Language Services																				
Work Area / Desk	15	1	15	20	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre.	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-			J	J			I			G	IOC	
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference needs.	-			J	J			I			G	IOC	
Logistics																				
Logistics Compound	-	1	Varies	500	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access. Secondary Compound Area - an additional compound area may be necessary for staging or storage of equipment that is in close proximity to FOP and/or the finish area.										P		
Logistics Centre	40	1	40	-	-	-	Enclosed space.	Assumes container units or tent.												
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-												
Team Staging/Work Area	25	1	25	-	Space for staging and a work area.	-	-	-												
Secure Storage & Equipment Sign-out	12	1	12	-	Area for storage.	-	Storage for tools.	-												
Warehouse Storage	65	1	65	-	Storage area for furniture, fixtures, and equipment (FF&E).	-	Enclosed space.	Assumes tent												
Storage Yard	50	1	50	-	Outside storage area within compound.	-	Area only.	-												
Vehicle Staging	75	1	75	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-												
Fuel Tank(s)	9	Varies	Varies	-	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.												
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.												
Material Transfer Area (MTA)	-	1	-	400	An area where packages or other items are delivered when they arrive outside the venue delivery schedule times.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.										G	P	
X-Ray Area	18	1	18	36	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.												

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Look of the Games																				
Work Area and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.										P		
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J					J		R	IOC	
National Olympic Committee (NOC) Flags	-	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.			J	J				J		R	IOC	
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and back of locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J				J	G	R,P	IOC, IF	
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals.	-												
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH).	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	-		I	J	J					J	G	R	IOC, L
Backdrop - Press Conference Room	2.2 x 6	1	2.2 x 6	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-					F		I	I				
Medical Services																				
Athlete Medical	50	1	50	75	An area where Medical provides services to athletes competing at the venue.	Located within the accredited Athlete Area.	Enclosed air-conditioned space.	Assumes container or existing space. Located in or near Athlete Compound.	J	J	J							S	IF	
Reception & Waiting	10	1	10	-	Area where athletes check-in and wait prior to examination.	-	-	-												
Examination Area(s)	8	2	16	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-												
Physiotherapy Area(s)	8	1	8	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-												
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-												
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J							S	IF	
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.												
Spectator Medical	40	1	40	80	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed air-conditioned space. 1 per 20,000 spectators	Assumes container unit or existing space.			I	F						P		
Reception & Waiting	10	1	10	-	Area where spectators check-in and wait prior to examination.	-	-	-												
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-												
Examination Area(s)	8	2	16	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-												
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Triage Station	9	1	9	18	Additional space to treat minor medical needs of spectators.	-	Covered space. May be used to supplement spectator Medical Reception function.	Assumes canopy structure.			I	F						P		
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.										P		
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Paved, graveled or grass area with fence, barricade or rope enclosure.	-					F	I	I			P		

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Merchandise																				
Office, Cash Room & Work Area	12	1	12	15	An area to manage the retailing of all Olympic merchandise inside the venue.	-	Enclosed space with secure entry.	Assumes container unit or existing space.					F					P		
Storage	15	1	15	20		-	-	Assumes storage containers or existing space.					F						P	
Program Sales Stands/Booths	1	1	1	2		-	Area only.	Units provided by vendor. Quantity and location decided by vendor and OCOG.					F						P	
Merchandise Points of Sale (POS)	6	Varies	Varies	18		Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.	Gross area is per each P.O.S. and includes service area and queue.		I			F						P	
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-		I	J	J						G	R	IOC
Olympic Family Services																				
Olympic Family Lounge	162	1	162	370	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes tent.	I			I	F				I	G	G	IOC
Welcome Desk & Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-	-												
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.	-												
Staff/Volunteer Room & Storage	9	1	9	-	On-call waiting area for Protocol staff and equipment storage.	-	-	-												
Dining & Lounge	90	1	90	-	Area for dining and lounge.	-	-	-												
Preparation/Buffer set-up/Beverage Area	45	1	45	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Staff/Volunteer, Athlete, Media)	-												
Toilets	20	1	20	40	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	2 female, 2 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided.									I	G	G	IOC
Protocol flags	-	-	-	-	-	-	See Look of the Games	-			J	J							R	IOC
Press Operations																				
Venue Media Centre (VMC)	350	1	350	550	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Conference Room and Photo Positions.	Close proximity to Press Tribune, Press Conference room, and Mixed Zone area.	Enclosed space for 100 press and 20 photographers.	Assumes tent.					F					R	IOC	
Reception & Information Desk	18	1	18	-	Welcome desk at the entrance, for information distribution.	-	-	-												
Storage	4	1	4	-	Equipment storage.	-	-	-												
Press Manager Office	12	1	12	-	Operational work space.	-	-	-												
Photo Manager Office	12	1	12	-	Operational work space.	-	-	-												
Olympic News Service (ONS) Work Room or Area	25	1	25	-	Operational work space.	-	Enclosed space.	-												
Info Stations	20	1	20	-	Computer stations and printers.	-	-	-												
Press Work Room or Area	150	1	150	-	Work area for press.	-	Enclosed space.	Various OCOG staff (eg IOC Media Relations) will work within this area.												
Photo Work Room or Area	35	1	35	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	-												
Photographers Check-in & Photo Bib Distribution	9	1	9	-	Area where photographers register and receive/return photo bibs.	-	-	-												
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers.	Quantity dependant upon final press and photographers numbers.												
Lounge/Catering Prep	50	1	50	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-	-												
Toilets	1.5	6	9	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided.												

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Press Conference Room	100	1	100	210	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I			F			I	I		R	IOC
Seating Area	60	1	60	-	An area for accredited press.	-	Seats + standing room.	-											
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4m x 5m x .6m high platform with 1 stair. 3.6m table, 6 chairs & step and repeat backdrop.	-											
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8m x 5m x .6m high platform.	-											
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-											
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-				F			I	I			
Mixed Zone	20 linear mtrs.	1	20 linear mtrs.	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I		I	F			I	I		R	IOC,IF
Press Tribune	-	-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	-	Tabled seating is fitted out with telephones, television monitors, power and other press facilities.	-											
Press Tabletop Seating	Varies	Varies	Varies	-	-	Easy access from Venue Media Centre and direct access if possible to Mixed Zone. Both fields of play.	In an existing stadium or seating area: 1 seat wide (folding chairs at 60cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50cm deep tabletop per position, each position = 2 stadium seats. Temporary Stands: 1 seat (folding chairs at 60cm spacing) x 2 rows deep of proposed seating system (normally 150cm-170cm deep).	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.			I	F			I	I	R	IOC,IF	
Press Seating (non-tabled)	Varies	Varies	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.			I	F					I	R	IOC,IF
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided											
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-											
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	Hide in front of archers rotated between photographers. Both fields of play.	Approx 60 photographers expected at peak periods. 60cm wide x 90cm deep per position, multi-row areas require 60cm riser per row.	Power, Wireless and data cabling needed to photo positions on FOP.	J		I	J			I	J		R	IOC, IF
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Normal seating areas.	-	Seating areas are generally not applicable for outdoor venues.	I		I	F			I	I		G	IOC
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

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Security																				
Security Command Centre	100	1	100	120	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.											P	
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-												
Security Work Area	15	1	15	-	An area for additional security agencies.	-	-	-												
CCTV Surveillance & Video Desk	12	1	12	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-												
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.												
Radio Dispatch & Monitoring	12	1	12	-	An area for the monitoring and control of security communication and the distribution/return of radios.	-	-	-												
Work Room	40	1	40	-	Open plan of work stations designated for security personnel.	-	-	-												
Secure Storage	8	1	8	-	An area for Security equipment storage.	-	-	-												
Dog Cage(s)	4	Varies	Varies	8 (each)	Holding area for security dogs.	-	Area only for enclosed portable units (e.g. cages)	Dependent on Host City / Country / Risk Assessment												F
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-					J	J						P
Briefing and Break Area / Staging Area	75	1	75	-	Area for briefing staff before and after shifts.	-	Enclosed space.	Assumes tent.												
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.					J	J						P
Vehicle Screening & Sanitisation Area	377	1	377	500	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.												P
Vehicle Queue	100	1	100	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-												
Oversized Vehicle Queue	70	1	70	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-												
Vehicle Sanitisation & Wanding Areas	100	1	100	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.												
Oversized Vehicle (Truck & Bus) Sanitization	70	-	70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-												
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.												
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Staging and break area enclosed space.	-												
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the Venue Secure Perimeter and/or venue screening area for constituents.	-	-												
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-												P
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-	I											P
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-												P
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.												P

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Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the Venue Secure Perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	-				F					G	P	
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the Venue Secure Perimeter.	Net area for each screening position will accommodate: 4 Wanding Stations, OR - 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue.											
Athlete / Team	18	1-2	18-36	36-72	-	-	Screening and search area is covered.	-	I		F							P	
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	-	-	Entrance can be combined with Athlete and/or Olympic Family.	I		F							P	
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	-	-	Entrance can be combined with TO, ENG and/or Press.	I	I	F							P	
Broadcast	18	1-2	18-36	45-90	-	-	Screening and search area is covered. Direct access from outside venue perimeter into Broadcast Compound.	-			F			I				R	IOC
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	-	-	-											
Press and Photographer	18	1-2	18-36	36-72	-	Located in close proximity if possible to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast) preferably leading directly into Press areas.	Approximately, a peak of 300 press & photographers with equipment will require access peak over a two hour period.				F						R	IOC
Staff, Volunteer, Contractor & Vendor	18	2-3	36-54	90-135	-	-	-	-				F						G	IOC
Spectator / Sponsors	18	Varies	Varies	54	-	FOH.	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-				F						P	
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.											
Exception Gate	1.5	Varies	Varies	5 (each)	Access gate for designated accredited personnel.	Located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.											
X-ray of bags	18	Varies	Varies	36 (each)	Device for screening bags/equipment coming into the venue.	-	-	-			I	F					G	P	
Venue Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	-				F	I					P	
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	Located at each security screening area, 1m to 3m width, sometimes used as a secondary service vehicle exit point.	-											
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m in width, number varies per concourse design.	-											
Staff, Volunteer, Contractor & Vendor	Varies	Varies	Varies	-	-	Located at Workforce Centre.	-	-											
Sponsor Services																			
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.			I	F						P	

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Sport Operations																				
Competition Management	45	1	45	70	A work area for Sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located close to Athlete Area and FOP; may be co-located within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space.	I				F				P			
Competition Manager & Asst. Mngr. Desks	12	1	12	-	An area for the Manager and Assistant(s) Manager.	-	-	-												
Assigned Work Area	15	1	15	-	Open plan of work stations designated for Sport personnel.	-	-	-												
Hot Desks	6	1	6	-	Shared work stations.	-	-	-												
Work Area	12	1	12	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-												
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-												
Sport Information	20	1	20	25	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located in Athlete Area.	Enclosed space with waiting area and seating.	Includes: information boards, pigeon holes, Info & Help desk, work area, info terminal stations & storage.	J			J					R	IF		
Athlete Lounge	100	1	100	125	An area where athletes can relax at the venue while not training or competing.	Located in Athlete Area.	Enclosed space.	Includes: seating area, lounge, Info & Help Desk, info terminal stations.	J			J					R	IF		
Athlete Dressing, Locker, Shower, Toilet	40	4	160	200	Change-room facilities to accommodate athletes at the venue during competition and training.	Located in Athlete Area.	Enclosed space. Separate male and female facilities.	Assumes container units or existing space.	J			J					R	IF		
IF & Sport Meeting Room	30	1	30	45	Meeting facility at the venue for the International Federation and Competition Management.	Located in close proximity to the IF Area and Competition Management area.	Enclosed space.	Shared meeting room area between IF & Sport to serve various meeting needs.	J			J					G	IF		
Sport Equipment Storage	50	1	50	60	Storage for athlete/team sport equipment.	Located adjacent to FOP or within close proximity.	Enclosed, secure space.	Pending whether athletes can store equipment in the Olympic Village. Assumes container units or existing space.	J			J	I				R	IF		
Repair Area for Athletes/Teams	25	1	25	35	Area for repair and service of equipment.	Located in Athlete Area.	Enclosed space.	-												
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	Reference should be made to FITA guidelines for all FOP technical requirements.	-												
Playing Surface Dimensions or Area	-	-	-	-	Types of play: match and ranking.	-	-	Total area required may be greater than playing surface dimension.	F			I			I	I		R	IF	
Match Play	10 200	1	10 200				<u>Match Play round:</u> 8 targets; 85m wide and 120m in length (including safety area). -Buffer Zone required: 10m each side.													
Ranking Round	11 700		11 700				<u>Ranking round:</u> 22 targets; 90m wide and 130m in length (including safety area). -Buffer Zone required: 10m each side.													
Surface	-	-	-	-	-	-	Grass.	-	J			J	I					R	IF	
Orientation	-	-	-	-	Orientation of FOP area.	-	North +- 20° for Northern Hemisphere and South +- 20° for the Southern Hemisphere.	-	J			J	I			I	J		R	IF
Shooting Line	-	-	-	-	-	-	Reference should be made to FITA guidelines for all FOP technical requirements.	-	F			I						R	IF	
Archers Box	-	-	-	-	-	-	-	-												
Coaches Box	-	-	-	-	-	-	-	-												
Waiting Area	-	-	-	-	-	-	-	-												
Equipment Area	-	-	-	-	-	-	-	-												
Sports Lighting - Technical	-	-	-	-	-	-	See Broadcast for lighting specifications.	-												
Judges Blind	-	-	-	-	-	By the side of the FOP.	Required for 4 people per match. The construction of the judges blinds should be by the side of the FOP.	The 4 people = Judges, AA, AA2, Scorer.												
Photographers and Camera Blind	-	-	-	-	-	-	This will vary according to media and television requirement.	-												

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	-	-	-											
Warm-up Surface Dimensions or Area	20 x 120	1	2400	-	-	Adjacent to FOP (as close as possible).	If ranking field is not within a 100m to the match play field, an area of 20 meter by 120 meter (North / South direction) is required next to the match play FOP.	Total area required may be greater than playing surface dimension.	J			J			I	J		R	IF
Surface	-	-	-	-	-	-	Grass.	-	J			J	I			J		R	IF
Orientation	-	-	-	-	Orientation of warm-up area.	-	North +- 20° for Northern Hemisphere and South +- 20° for the Southern Hemisphere.	-	I			F	I					R	IF
Athlete / Team Seating	-	-	-	-	A designated seating area for athletes.	-	-	-	J		I	J				J			
Same Sport	-	Varies	-	-	-	-	-	-	J		I	J				I		R	IOC,IF
Different Sport	-	Varies	-	-	-	-	-	-	I		I	F				I		R	IOC
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	May be required for Sport Staff use. Quantity varies according to athlete numbers.										P	
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	Required if FOP is not located near Athlete Area.	Assumes temporary units. Quantity varies according to athlete numbers.					F					P	
International Federation																			
IF Area	60	1	60	70	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located in close proximity to accredited seating areas.	Enclosed space.	Assumes container units or existing space.	I		I	F						R	IF
IF President's Office	15	1	15	-	-	-	-	-	I		I	F						R	IF
IF Secretary - General/Executive Director's Office	15	1	15	-	-	-	-	-	I			F						G	IF
Reception, Secretariat, Waiting & Work Area	30	1	30	-	-	-	-	-	I			F						G	IF
Jury Room	20	1	20	25	This space is utilised for the resolution of protests and appeals after competition.	Located in close proximity to field of play.	Enclosed space.	Assumes container units or existing space.	I			F						R	IF
Officials Lounge & Locker Room	50	1	50	60	A rest area for officials.	-	Enclosed space.	Assumes container units or existing space; Not required if near other common use facilities (showers, toilets, etc.).	J			J						G	IF
Technical Delegates Office/Work Area	15	1	15	20	Office area for Technical Delegates.	-	Enclosed space. 2 Technical Delegates.	-	I		I	F				I		R	IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I		J	J				J		R	IOC,IF
Sport Presentation																			
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	Both fields of play.	-	See Technology for additional requirements of Sport Presentation.											
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-					F					P	
Announcer Position	3	1	3	-	-	-	-	-					F					P	
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space. Staff Work, Green Room, Entertainer Staging and Dressing and Prop Storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.											

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Technology Operations																				
Technology Help Desk	20	1	20	-	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support staff & manager.	-										P		
Venue Technology Operations (VTO)	25	1	25	-	OCOG Technology Operations area. Operational work space for entire Venue Technology team, including Partners & contractors.	Adjacent to or within Venue Operations Centre (VOC).	Medium security - lockable room. Air-conditioned as office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	-										G	P	
OCOG Venue Technology Work Area	-	1	-	-	Work space for Venue Technology Manager, Assistant Venue Technology Manager, Technology Staffing Manager and associated volunteer(s).	-	-	Work space size may be dependent upon workforce per shift.												
AV Contractor Work Area	-	1	-	-	Work space for AV contractors/Technicians.	-	-	Work space size may be dependent upon workforce per shift.												
IT Provider Work Area	-	1	-	-	Work space for IT staff and "home base" for IT volunteers.	-	-	Work space size may be dependent upon workforce per shift.												
Reprographic Provider Work Area	-	1	-	-	Work space for reprographic contractors/technicians	-	-	Work space size may be dependent upon workforce per shift.												
Mobile Phone Provider Work Area	-	1	-	-	Workspace for mobile phone provider.	-	-	Work space size may be dependent upon workforce per shift. Charging area for Venue Operations workforce phones may be required.												
Wired Communications Provider Work Area	-	1	-	-	Work space for Wired Communications contractors/technicians.	-	-	Work space size may be dependent upon workforce per shift.												
Timing & Scoring/OVR Provider Work Area	-	1	-	-	Work space for OVR/Timing and Scoring contractors/technicians.	-	-	May not be required if adequate working space is allocated in OVR room.												
Radio Distribution Room (RDR)	15	1	15	-	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E & workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).	I									P		
Information Technology																				
Computer Equipment Room (CER)	20	1	20	-	Area for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.	I									G	P	
Data Local Area Network (LAN) Management Room & Store	25	1	25	-	LAN monitoring room and associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational staff & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces.										G	P	

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Telecommunication & Audio Visual																			
Telecomm. Equipment Room (TER) Primary	36	1	36	-	Includes telecommunications equipment (PABX, structured cabling racks for data and voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	Raised flooring is preferable for cabling distribution, but not essential.		I		F							P
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER.	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.		I		F							P
Telecomm. Operations & Store	25	1	25	-	Operational space for Telecommunications technical staff and associated storage for spare parts.	Adjacent to TER.	As TER with adequate FF&E to support operational staff & storage.	If located adjacent to TER, power supply boards, UPS units & A/C services can be common for both spaces.		I		F							P
Audio Control Positions	-	-	-	-	-	-	-	-				F					G		P
Venue	4	1	4	-	Area within Sport Production, location for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Production. Can be on FOP, in stands or in a booth with view to FOP.	High Security. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	Storage for country anthems.											
Press Conference	4	1	4	-	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), air-conditioned, waterproof. Work space & FF&E for operator.	PA system may also be used for Competition Draw if draw is held in Press Conference room.											
Warm-Up Area	0	0	0	-	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Within Warm-up area for Athletes.	Standard/mains power & FF&E.	-											
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-											
Workforce Break/Briefing	2	Varies	Varies	-	Area within Staff Break/Training room where audio control equipment is installed to facilitate meetings/training of large numbers of staff.	Workforce break/dining areas.	Standard/mains power & FF&E.	-											
Video Board Control	4	1	4	-	Area of video control for video board or video projection system. Operations integral with those of Sport Production.	Ideally with Sport Production. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	Requirement based on deployment of Videoboard to ATH (mobile board).				F					G		P
Wired Communications Control	2	1	2	-	Area of wired communications master control station and support technician. System essential to operations of both Sport Production and Results/FOP management.	Near to or within Sport Production is preferable. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location if located outdoors. Good cable access to FOP, OVR Room, Sport Production, Broadcast Graphics Room & Results Printing required. Workspace & FF&E for one technician, control equipment, spare parts and containers/boxes for equipment.	-				F					G		P
Temporary PA equipment Room	2 min	1	2 min	-	Temporary location for installation of PA active equipment (amplifiers etc) for venue PA system.	In existing PA equipment room, if applicable. May be located under venue seating/tribunes if existing room not available.	High Security. Fully redundant power (mains & standby generator) to equipment. Good cable access to speaker location and PA/Audio Control position required. Equipment installed in racks. Each rack set is 1000H x 600W x 600 D maximum.	Number of racks will depend on size of system deployed. Generally venues with large geographic area (outdoor) require larger installation and therefore more racks of amplifier equipment.				F							P

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Timing, Scoring, & Results Operations																			
Results Data Entry Position	-	-	-	-	Area(s) for event results and/or statistics data entry during competition.	As noted below.	High Security. Fully redundant power (mains & generator) with UPS to all results data entry equipment/workstations. Space & FF&E for all data entry personnel & results management staff.	Where data entry occurs outdoors, adequate weather (rain/sun) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
Field of Play	3	1	3	-	Areas/positions for results and/or statistics on the FOP.	Located at control table on one side of the shooting line, or behind shooting line. Adjacent to Timing & Scoring. Both fields of play.	-	May occur as a position on the FOP, or in a room with a view to the FOP.											
Back of House	-	-	-	-	Area Back of House where data entry is performed into the OVR/Results System.	Sport Specific, but can be in Warm-up or call areas.	-	Generally occurs Back of House, in sport location.											
Timing and Scoring Position					Area(s) for event timing & scoring personnel & equipment during competition.	Sport Specific. However, all locations must have view to FOP.	High Security. Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards & OVR room. Space & FF&E for operators and equipment.	Adequate weather (rain/sun) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
Field of Play (FOP)	8	8	64	-	-	FOP located as specified by Sport.	2 x positions performing scoring entry for each target scoreboard, 2 x positions performing scoring entry into OVR system with view of targets (for each field of play).	Based on 2 fields of play, each field of play with 2 x target locations in Beijing. Athens had 4 x Targets. Sydney had 8 x Targets.											
Control Room	1.5/pp	1	1.5/pp	-	-	-	-	-											
On Venue Results (OVR)	59	1	59	-	Area is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	Easy access to FOP critical for technical and results staff.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Space & FF&E required for high density of computer workstations, racks for servers and working space for technicians, operators and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or venues where two sports occur concurrently will require more space for additional OVR equipment.	I	F								P	
OVR Provider Work Area	16	1	16	-	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO/CIS/PRD etc).	Ideally adjacent to IT provider work area.	-	-											
IT Provider Work Area	18	1	18	-	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-											
Scoreboard Control	4	1	4	-	Location of scoreboard control operations. Operations integral with those of Sport Production, data provided from OVR System. Space for both Control and Interface workstations and 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.	I	F							G	P	
Scoreboard Control	2	1	2	-	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator and workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-											
Scoreboard Interface	2	1	2	-	Area for interface equipment (PC workstations) linking OVR system and Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-											

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Results Printing (PRD)	60	1	60	-	Area for hard copy results production and distribution. Area of high intensity work involving many staff preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area and position for the Print Distribution Workstation (IDS interface) equipment and operator.	Near/adjacent to Press Workroom, access to Press Tribunes, Broadcast Commentary Positions, Sport Information Desk, Doping & Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specification. Space & FF&E required for equipment and operational staff as well as space for 1 x pallet of paper to support print/copy operations.		I	I	I	F						R	IF, Swatch
TV Graphics Interface	3	1	3	-	Area where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operators & good cable access to OVR room.					I		F			G	P	
Technology Storage																			
Technology General Storage	15	1	15	-	Area for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F						G	P
IT Bulk Storage	30	1	30	-	Storage area for all spare IT equipment & associated boxes/containers.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to IT provider at all times.				F						G	P
Reprographic Primary Storage Area	12	1	12	-	Primary storage/technical area in-venue for reprographic provider. Storage for spare parts, additional devices and consumables serving primarily Results Printing Operations.	In venue location adjacent to, or within Results Printing Room.	High Security - lockable. Standard office environment with standard power. Workspace & FF&E for one technician.		I		F							G	P
Reprographic Bulk Storage Area	-	1	-	-	Storage area for bulk paper allocated to venue (multiple pallets).	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of paper required to support venue operations.				F						G	P
Timing and Scoring Workshop	10	1	10	-	In venue storage and workshop for timing equipment, spare parts and small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.		I		F							G	P
Timing & Scoring Bulk Store	30	1	30	-	Storage area for large crates and containers used for scoreboards and bulk equipment. Must be accessible to OVR provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of Timing & Scoring equipment deployed to venue. May be combined with Timing & Scoring Workshop if location & size of space meet requirements for venue.	I		F							G	P
Audio Visual Bulk Store	30	1	30	-	Storage area for large crates and containers used for video boards, PA equipment and TV boxes. Must be accessible to Video/Public address provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of audio/video equipment deployed to venue.				F						G	P
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required to distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closet. CCFs are to be installed in locations that allow for easy access for service technicians and easy cable access from TER room and to user device locations.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Work Room.	High Security - lockable & weatherproof. May require fan or dedicated A/C depending upon room location and / or configuration. Fully redundant power (mains & generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Area for CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.	I		F								P
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of Power from Data/Voice and Audio Visual Cabling	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in a manner which allows for easy access and repair/replacement. Legacy installations are to be installed as permanent while temporary (overlay) should be installed using methods which are easily installed & removed minimising potential damage to existing venue.				F							P
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.	-	-	-											
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.	-	-	-											
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.	-	-	-											

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CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	-											
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	-											
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-											
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-											
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-											
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-											
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-											
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I		F							P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.											
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to Video Control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I		F							P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the videoboard. Required for outdoor venues where the videoboards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each videoboard.											
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Production on a sport specific basis.	Adequate power, cable pathways to/from boards to Video Control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I		F						G	P	
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to/from audio/PA amplification system and/or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend PA speakers from venue ceiling structure.	-	-	-											
Mobile Phone Infrastructure (antenna)	-	Varies	-	-	Infrastructure required to support installation of additional radio antenna and mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to / from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.	I		F						G	P	

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Ticketing																			
Ticket Box Office	30	1	30	75	An area at the venue where Olympic tickets are sold.	Adjacent to the secure perimeter; near the spectator entry point of the venue.	Gross area includes internal & external queue.	Assumes container unit with accessible access to internal and external service window. Dependent upon spectator capacity, venue layout and footprint and spectator access point locations.					F					P	
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	10	1	10	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	4 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s)	10	1	10	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	4 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	18	1	18	36	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.					F					P	
Driver Staging	55	1	55	100	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.					F					P	
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside Venue Secure Perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	12	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-					F					P	
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from each Host City, based on vehicle / bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J							I	P
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J							I	P
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F							P
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.				F						I	G IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.				F							G IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.	I		F								G IOC
Spectator and Staff Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				F							P
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.	I		F								P
Accessible	-	-	-	-	-	-	-	Part of Spectator total.				F							P
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Surface areas paved or gravel.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have a drop-off in close proximity to accredited entry point and then driver will park.			I	F							P
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.				F			I				P
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.				F			I				P
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-			J	J							P
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes circulation.				F		I					P
Emergency Services	-	-	-	50 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes circulation.				F		I					P

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Venue Development																			
Site Management Compound	348	1	348	520	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Dependent upon venue footprint, extent of temporary works, and number of contractors.										P	
Site Management Area	45	1	45	-			Enclosed space.												
Site Manager & Assistant Site Manager(s) Work Area	12	1	12	-	Work and meeting area for the Site Manager and Assistant Site Manager.														
Site Administration Desk & Work Area	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.														
Response Team & Vendor Staging	18	1	18	-	On-site permanent and temporary facilities for specialty staff and general labor crew to be on-call.														
Secure Storage - Site Management	9	1	9	-	Area for storage.														
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.		Enclosed space. Area for office, staging and a secure storage area.	Assumes container units or existing space. Contractor usually installs container units at their own cost.											
Sign/Look Staging, Work Space/Secure Storage	35	1	35	-	Area for holding, sorting, repairing of event signs, look materials and tools.			Assumes container unit or existing space.											
Material Warehouse/Construction Work Space	55	1	55	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.		Enclosed space.	Assumes tent or canopy with 2 side walls. Area for carpentry, painting and general construction. Storage for non-weather proof materials.											
Vendor Secure Storage	30	1	30	-	Area for containers, usually provided by the various temporary construction sub-contractors.		Enclosed space.	Assumes container units or existing space.											
Materials Staging Area	30	1	30	-	Area for the off-loading and loading of bulk construction materials.		Area only.												
Exterior Storage Area	30	1	30	-	Outdoor storage of material and products.		Area only.	Weatherproof area for large and bulk materials.											
Vehicle Staging	60	1	60	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.		Area only.	Service, Repair & Specialty vehicles.											
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	Located in BOH compound areas.		Assumes temporary units. Accessible toilet facilities should be provided.											
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.		I		F						P	
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.			I		F						P	
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.											P
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.		Generators also provide primary source of power to one half of the FOP lighting.											
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.													

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Venue Management																			
Venue Operations Centre (VOC)	45	1	45	70	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Dependent upon venue capacity and venue layout.					F					P	
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-											
Assigned Desks	15	1	15	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	6	1	6	-	Shared work stations.	-	-	-											
Work Space and Storage	12	1	12	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	30	1	30	40	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.					F					P	
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	15	1	15	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	8-10 people.											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	100	1	100	120	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre.	Enclosed space.	Assumes existing space or tent. Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.					F					P	
Workforce																			
Workforce Area	120	1	120	150	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.					F					P	
Check-In Area	76	1	76	-	Area to log-in venue staff and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Area	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	175	1	175	210	The space where workforce meals are served and where workforce can break during their shift.	A location that will provide easy access to all workforce for breaks and meals; will vary according to venue layout / size.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon workforce numbers..					F					P	
END OF DOCUMENT																			

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Accreditation																							
Venue Accreditation Office	60	1	60	150																			
Day Pass Issue & Problem Resolution Desk	18	1	18	-	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.										P	-				
Work Area	18	1	18	-																			
Manager Desk or Office & Storage	12	1	12	-																			
Waiting Area	12	1	12	-																			
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	-	Enclosed space. May be required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.					F					P	-				
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.					F										
Broadcast																							
Broadcast Compound	-	1	-	8000	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements. Located in temporary structure.					J		J			R	IOC				
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Assumes container/trailer unit or tent.					I		F			G	IOC				
Broadcast Manager Office	12	1	12	-		-	-	-	-														
Work Room, Assigned and Unassigned Desks	48	1	48	-		-	-	-	-														
Technical Operations Centre	60	1	60	150	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.					I		F			R	IOC				
Broadcast Catering	175	1	175	220	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Kitchen and Prep	25	1	25	-		-	-	-	Assumes container unit.														
Buffet Line and Dining	150	1	150	-		-	-	-	Assumes container unit or tent.														
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements. Assumes container units.															
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	-															
Mobile Unit(s)	65	Varies	Varies	-	-	-	-	-															
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters. Assumes container units.															
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	-															
Mobile Unit(s)	65	Varies	Varies	-	-	-	-	-															
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.															
Toilets	1.5	12	18	54	Toilet units designated for broadcast personnel.	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.															
Commentator Control Room	70	1	70	85	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in close proximity to commentator position area.	Enclosed space with incoming television cable.	Assumes existing space or container.					I		F			R	IOC				
Broadcast Information Office (BIO)	25	1	25	30	Space for broadcast management and team meetings.	Located near commentator positions and CCR	Enclosed space.	Assumes existing space or container.					J		J			R	IOC				
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-					J		J			G	IOC				
Pre and Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J		J	J				R	IOC				
Mixed Zone	55 linear mtrs.	1	55 linear mtrs.	300	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Adjacent to the FOP.	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I	I	J		J	I				R	IOC, IF				
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in seating areas with view to FOP and covered when possible.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Outdoor commentator positions should have the option of cover for protection from various weather conditions (e.g. sun, rain). Space for commentator positions may vary according to actual venue/permanent seating setup.					I	J		J	I		R	IOC			
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	Located at the rear of the commentator grouping so as not to disrupt the FOP view of other commentator positions.	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	A com-cam position equals 2 adjacent commentator positions.					I	J		J	I						

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Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions.	1 position = uses 1 seat in existing seating bowls.	-										R	IOC
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval. Space for camera positions may vary according to actual venue/permanent seating setup.	J		I	J						R	IOC
Camera Position - Other	4	50	200	450	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	Space for camera positions may vary according to actual venue/permanent seating setup.	I		I	J						R	IOC
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-					J	I				G	IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	-					J	I				G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in BOH areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.					J	I				G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography, in conjunction with OBS and IFs.	J				J	I				R	IOC
Catering																			
Catering Compound	758	1	758	1100	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity.		I		F						P	
Work Areas - Catering Management	32	1	32	-		-	Enclosed space.	Assumes existing space or container.											
Organising Committee Catering Manager	-	-	-	-		Located in Venue Operations Centre.	See Venue Management - VOC.	-											
Catering Contractor	20	1	20	-		-	-	-											
Beverage Contractor	12	1	12	-	Operational work space(s).	-	-	-											
Dry, Cold and Ice Storage	38	4	152	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.											
Vehicle Staging	50	1	50	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-											
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-											
Kitchen and Preparation Area	54	1	54	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.											
Uncovered Storage	50	1	50	-	Outdoor storage of material and products.	-	Area only.	-											
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilets should be provided.											
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit.	-											
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container(s). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity, level of catering activity.		I		F						P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	-											
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	-											
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue catering facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-		I		F						P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Ceremonies																				
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-			I	F							P	
Ceremonies Staging	50	1	50	60	For the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule; to coordinate location of podium, procession, and recession route, and location of flagpoles.	Adjacent to or close to FOP.	Consists of coordinator work space with area for anthem storage, secure storage, preparation and dressing area; see below for additional details.	Assumes existing space or container.			I	F							P	
Manager Desk	6	1	6	-	Workspace for Manager.	-	-	-												
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenters, Medal/Flower staging, Secure medal and flag storage	36	1	36	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenter Preparation & Dressing	4	2	8	-	A dressing and preparation area for Presenters.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-												
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	Close to FOP.	Limited use, may be shared with other space. See Sport Presentation.	-			I	F							P	
Awards Podium Storage	25	1	25	30	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	Adjacent to FOP.			I	F							P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.			I	J	J			J	G	R	IOC	
Cleaning and Waste																				
Cleaning & Waste Compound	339	1	339	460	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependent upon venue capacity.					F						P	
Vehicle Staging	90	1	90	-	Parking area for collection vehicles which generally remain inside the venue.	-	Area only.	-												
Sorting Area	90	1	90	-	Area for sorting waste.	-	Area only.	-												
Waste & Recycle Containers	15	6	90	-	Area in front of waste and recycle bins where material is separated for containment.	-	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).												
Compactor Unit	25	Varies	Varies	-	Area in front of waste and recycle bins where material is separated for containment.	-	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.												
Equipment Supply & Storage	15	3	45	-	Space for cleaning equipment and paper product.	-	Enclosed space.	Assumes container unit.												
Contractor Office	24	1	24	-	Space for management and workforce staging.	-	Enclosed space.	-												
Doping Control																				
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	-		J	J	J							R	IOC
Waiting Area/Reception	36	1	36	40	Area where athletes check-in and wait prior to testing.	-	-	-												
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Blood Processing Room(s)	15	Varies	Varies	20 (each)	Area where athlete blood samples are provided and sealed	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Office / Storage	12	1	12	15	Wash basin for hand sanitisation.	-	Enclosed space. Secure storage.	-												
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-		I	J	J							R	IOC

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.					F					P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of staff pre and post shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large group.	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.					F					P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.					F					P	
Information Desk	-	-	-	-	A holding area for items found in the venue.	-	-	-											
Lost & Found	-	-	-	-	An area where listening devices are provided to spectators.	-	-	-											
Assisted Listening Device Rental	-	-	-	-	An area to store wheelchairs.	Adjacent to Public Information.	-	-					F					P	
Wheelchair Storage	6	1	6	12	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes 12m away from covered search area.	Total number generally 50% of security screening positions.					F					P	
Ticket Rip	3	Varies	Varies	9 (each)	An area designated for the temporary storage of children's strollers.	-	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.					F					P	
Stroller Storage	72	Varies	Varies	72 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.					F					P	
Water Station(s)	36	Varies	Varies	108 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators					F					P	
Payphones	2	Varies	Varies	72 (each)	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and event services areas.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.					F					P	
Spectator Shade & Shelter	1	Varies	Varies	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-					F					P	
Designated Smoking Areas	36	1	36	-	Toilet units designated for spectators.	-	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.					F					P	
Spectator Toilets	1.5	Varies	Varies	5 (each)	A chemical unit used in the absence of potable water.	-	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.					F					P	
Hand Wash Stations	1	Varies	Varies	6 (per 20 toilets)	-	-	-	-					F					P	

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Finance																				
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I		F						P		
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Generally located inside venue perimeter and outside venue perimeter.	Area only.	Quantity dependent upon venue capacity.		I		F						P		
Language Services																				
Work Area / Desk	-	-	20	25	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre.	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-			J	J		I				G	IOC	
Simultaneous Interpretation Booth	2	3	6	18	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference needs.	-			J	J		I				G	IOC	
Logistics																				
Logistics Compound	-	1	Varies	800	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access. Secondary Compound Area - an additional compound area may be necessary for staging or storage of equipment that is in close proximity to FOP and/or the finish area.											P	
Logistics Centre	75	1	75	-	-	-	Enclosed space.	Assumes container units or tent.					F							
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-												
Team Staging/Work Area	40	1	40	-	Space for staging and a work area.	-	-	-												
Secure Storage & Equipment Sign-out	20	1	20	-	Area for storage.	-	Storage for tools.	-												
Warehouse Storage	115	1	115	-	Storage area for furniture, fixtures, and equipment (FF&E).	-	Enclosed space.	Assumes tent												
Storage Yard	100	1	100	-	Outside storage area within compound.	-	Area only.	-												
Vehicle Staging	125	1	125	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-												
Fuel Tank(s)	9	Varies	Varies	25 (each)	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.												
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.												
Material Transfer Area (MTA)	-	1	-	750	Generally for deliveries to the venue that may take place after hours or not within the logistics delivery window period.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.					F					P		
X-Ray Area	54	1	54	100	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.												

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Look of the Games																			
Work Area and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.										P	
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J					J		R	IOC
National Olympic Committee (NOC) Flags	Varies	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.			J	J			J		R	IOC	
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and back of locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J				J	G	R,P	IOC, IF
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals.	-											
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH).	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	-	I	J	J					J	G	R	IOC, L
Backdrop - Press Conference Room	2.2 x 6	-	-	-	Look item for Press Conference behind the dais.	Located in Press conference room.	Fixed on stand or against wall behind top table in press conference room.	-				F		I	I				
Medical Services																			
Athlete Medical	76	1	76	125	An area where Medical provides services to athletes competing at the venue.	Located within the accredited Athlete Area.	Enclosed air-conditioned space.	Assumes container or existing space.	J	J	J					J		R	IF
Reception & Waiting	15	1	15	-	Area where athletes check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	10	1	10	-	Work space for Medical Manager.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	4	32	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Physiotherapy Area(s)	8	2	16	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Athlete Massage Area	-	-	-	-	-	-	See Sport Operations.	-	J	J	J							G	IF
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J					J		R	IF
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.											
Spectator Medical	65	1	65	120	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed air-conditioned space. 1 per 20,000 spectators.	Assumes container unit or existing space.			I	F	I	I				P	
Reception & Waiting	15	1	15	-	Area where spectators check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	15	1	15	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	4	32	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Triage Station	50	1	50	100	Additional space to treat minor medical needs of spectators.	Located in the Front of House.	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.			I	F	I	I				P	
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.										P	
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Paved, graveled or grass area with fence, barricade or rope enclosure.	-				F	I	I				P	

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Merchandise																					
Office, Cash Room & Work Area	12	1	12	15	An area to manage the retailing of all Olympic merchandise inside the venue.	-	Enclosed space with secure entry.	Assumes container unit or existing space.										P			
Storage	15	3	15	45		-	-	Assumes storage containers or existing space. Units provided by vendor. Quantity and location decided by vendor and OCOG.					F						P		
Program Sales Stands/Booths	1	1	1	2		-	Area only.	Units provided by vendor and OCOG.					F						P		
Merchandise Points of Sale (POS)	6	Varies	Varies	18		Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.	Gross area is per each P.O.S. and includes service area and queue.										P		
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-			I	J	J					G	R	IOC	
Olympic Family Services																					
Olympic Family Lounge	319	1	319	700	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes tent.			I	F					I	G	G	IOC	
Welcome Desk & Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-	-													
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.	-													
Staff/Volunteer Room & Storage	16	1	-	-	On-call waiting area for Protocol staff and equipment storage.	-	-	-													
Dining & Lounge	190	1	-	-	Area for dining and lounge.	-	-	-													
Preparation/Buffer set-up/Beverage Area	95	1	-	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Staff/Volunteer, Athlete, Media)	-													
Toilets	40	1	40	80	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	6 female, 6 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided.										I	G	G	IOC
Protocol flags	-	-	-	-	-	-	See Look of the Games.	-				J	J					J	R	IOC	
Press Operations																					
Venue Media Centre (VMC)	900	1	900	1100	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Conference Room and Photo Positions.	Close proximity to Press Tribune, Press Conference, and Mixed Zone area and/or in adjacent building or structure, not more than a 200 metre distance	Enclosed space for 300 press and 60 photographers. Water Polo - enclosed space for 150 press and 30 photographers.	Assumes tent.											R	IOC	
Reception & Information Desk	30	1	30	-	Welcome desk at the entrance, for information distribution.	-	-	-													
Storage	9	1	9	-	Equipment storage.	-	-	-													
Press Manager Office	12	1	12	-	Operational work space.	-	-	-													
Photo Manager Office	12	1	12	-	Operational work space.	-	-	-													
Olympic News Service (ONS) Work Room or Area	45	1	45	-	Operational work space.	-	Enclosed space.	-													
Info Stations	36	1	36	-	Computer stations and printers.	-	-	-													
Press Work Room or Area	385	1	385	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.													
Photo Work Room or Area	100	1	100	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.	-													
Photographers Check-in & Photo Bib Distribution	18	1	18	-	Area where photographers register and receive/return photo bibs.	-	-	-													
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.													
Lounge/Catering Prep	235	1	235	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-	-													
Toilets	1.5	12	18	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided.													

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Press Conference Room	360	1	360	500	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I			F					R	IOC
Seating Area	300	1	300	-	An area for accredited press.	-	Seats and standing room.	-										
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3.6 m table, 8 chairs & step and repeat backdrop.	-										
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-										
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-										
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-				F			I			
Mixed Zone	60 linear mtrs.	1	60 linear mtrs.	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I	I	F						R	IOC,IF
Press Tribune	-	-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	-	Tabled seating is fitted out with telephones, television monitors, power and other press facilities (indoor venues). For outdoor venues, these services will exist in VMC.	-										
Press Tabletop Seating	Varies	Varies	Varies	-	-	Easy access from Venue Media Centre and direct access if possible to Mixed Zone.	<u>In an existing stadium or seating area:</u> 1 seat wide (folding chairs at 60 cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50 cm deep tabletop per position, each position = 2 stadium seats. <u>Temporary Stands:</u> 1 seat (folding chairs at 60 cm spacing) x 2 rows deep of proposed seating system (normally 150 cm-170 cm deep). 1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.									R	IOC,IF
Press Seating (non-tabled)	Varies	Varies	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.									R	IOC,IF
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided										
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-										
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	Located on pool deck area.	Total number of expected photographers at medal sessions: 220. Wide pool decks a big advantage for good photo coverage. Estimated max photographer numbers for water polo: 100. Tribunes on both sides of the pool deck - usually in tiers, either standing or seated. A limited number of pool photographers (6) work on the deck itself. 60cm wide x 90cm deep per position, multi-row areas require 60cm riser per row.	Power and data cabling needed to photo positions on FOP; possible WAN transmissions to tribune. If water polo finals to be held in main aquatic centre, the main photo positions are on pool deck.	J		J						R	IOC, IF
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Extra photo positions located in the seating bowl.	-	Seating areas are generally not applicable for outdoor venues.	I	I	F						G	IOC
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-										

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Security																		
Security Command Centre	150	1	150	180	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.					I	F			P	
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-										
Security Work Area	15	1	15	-	An area for additional security agencies.	-	-	-										
CCTV Surveillance & Video Desk	18	1	18	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-										
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.										
Radio Dispatch & Monitoring	18	1	18	-	An area for the monitoring and control of security communication and the distribution/return of radios.	-	-	-										
Work Room	60	1	60	-	Open plan of work stations designated for security personnel.	-	-	-										
Secure Storage	12	1	12	-	An area for Security equipment storage.	-	Enclosed, secure space.	-										
Dog Cage(s)	4	Varies	Varies	8 (each)	Holding area for security dogs.	-	Area only for enclosed portable units (e.g. cages).	Dependent upon Host City/Country / Risk Assessment.						F				
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-				J	J					P
Briefing and Break Area / Staging Area	220	1	220	250	Area for briefing staff before and after shifts.	-	Enclosed space.	Assumes tent.										
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.				J	J					P
Vehicle Screening & Sanitisation Area	880	1	880	1100	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.				I	F					P
Vehicle Queue	300	1	300	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-										
Oversized Vehicle Queue	210	1	210	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-										
Vehicle Sanitisation & Wanding Areas	250	1	250	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.										
Oversized Vehicle (Truck & Bus) Sanitisation	70	1	70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-										
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.										
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Enclosed space for staging and break.	-										
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.										
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the venue secure perimeter and/or venue screening area for constituents.	-	-					F	I				
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-				J	J					P
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-	I			F						P
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-				F	I					P
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.				F						P

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the venue secure perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	-									G	P		
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the venue secure perimeter.	Net area each Screening Position will accommodate: 4 Wanding Stations, OR - 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue.												
Athlete / Team	18	1-2	18-36	36-72	-	-	Screening area is covered.	-	I			F					I		P	
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	-	-	Entrance can be combined with Athlete and/or Olympic Family.	I			F					I		P	
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	-	-	Entrance can be combined with TO, ENG and/or Press.	I		I	F					I		P	
Broadcast	18	1-2	18-36	45-90	-	-	Screening and search area is covered. Direct access from outside venue perimeter into Broadcast Compound.	-				F							R	IOC
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	-	-	-												
Press and Photographer	18	1-2	18-36	36-72	-	Located in close proximity if possible to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast) preferably leading directly into Press areas.	Approximately, a peak of 300 press & photographers with equipment will require access peak over a two hour period.					F						R	IOC
Staff, Volunteer, Contractor & Vendor	18	2-3	36-54	90-135	-	-	-	-					F						G	IOC
Spectator / Sponsors	18	Varies	Varies	54	-	-	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-					F						P	
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.												
Exception Gate	-	-	-	-	Access gate for designated accredited personnel.	Located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.												
X-ray of bags	54	Varies	Varies	100 (each)	Device for screening bags/equipment coming into the venue.	-	-	-				I		F			G		P	
Venue Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	-					F		I				P	
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	1m to 3m width, sometimes used as a secondary service vehicle exit point.	-												
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m each, number varies per concourse design.	-												
Staff, Volunteer, Contractor & Vendor	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	-												
Sponsor Services																				
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.				I		F					P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Sport Operations																			
Competition Management	75	4	300	340	A work area for Sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located close to Athlete Area and FOP; may be co-located within the Venue Operations Centre.	Enclosed space.	Quantity and area may vary according to venue layout for each discipline and/or FOP set-up. Assumes container units or existing space.	I				F					P	
Competition Manager & Asst. Mngr. Desks	12	-	-	-	An area for the Manager and Assistant(s) Manager.	-	-	-											
Assigned Work Area	24	-	-	-	Open plan of work stations designated for Sport personnel.	-	-	-											
Hot Desks	15	-	-	-	Shared work stations.	-	-	-											
Work Area	24	-	-	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-											
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-											
Sport Information	60	1	60	110	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located in Athlete Area.	Enclosed space with waiting area and seating.	Includes: information boards, pigeon holes, Info & Help desk, work area, info terminal stations & storage.	J		J							R	IF
Athlete Lounge	200	1	200	360	An area where athletes can relax at the venue while not training or competing.	Located in Athlete Area.	-	Quantity may vary according to venue layout for each discipline and/or FOP. Includes: seating area, lounge, Info & Help Desk, info terminal stations.	J		J							R	IF
Athlete Dressing, Locker, Shower, Toilet	135	Varies	Varies	Varies	Change-room facilities to accommodate athletes at the venue during competition and training.	Located in Athlete Area.	Enclosed space. Separate male and female facilities.	Quantity and total net area of change/locker cubicles, change rooms, showers, and toilets may vary according to venue layout for each discipline and/or FOP and male/female requirements for each discipline. Assumes container units or existing space.	J		J							R	IF
Swimming, Diving, Synchronised	400	2	800	1000	-	-	-	-											
Waterpolo	50	4	200	300	-	-	-	Water Polo: there is a requirement for 2 female and 2 male change/locker room facilities for teams competing. These change-room layout may vary according to venue/FOP layout/setup and as well as competition schedule with other Aquatics disciplines.											
Athlete Massage Area	60-120	Varies	Varies	-	An area where athletes can receive massage between competition and training.	Located in Athlete Area.	Separate facilities from Athlete change-room area.	Quantity and area size will vary according to venue layout for each discipline and/or FOP and male/female requirements for each discipline. Assumes container units or existing space.	J	J	J							G	IF
Gym Area	100-400	Varies	Varies	Varies	An area where athletes can perform strength training.	Located in Athlete Area.	Enclosed space.	Quantity and area may vary according to venue layout for each discipline and/or FOP.	J		J							R	IF
IF & Sport Meeting Room	50	1	50	65	Meeting facility at the venue for the International Federation and Competition Management.	Located in close proximity to the IF Area and Competition Management area.	Enclosed space.	Shared meeting room area between IF & Sport to serve various meeting needs (e.g. video meeting/review).	J		J							G	IF
Video Meeting Room	-	-	-	-	-	-	See IF & Sport Meeting Room.	-											
FOP Equipment Storage	100	5	500	700	Storage of equipment required for competition.	Located around FOP.	The total area can be evenly distributed in spaces surrounding the FOP.	Assumes container units or existing space.	I			F	I					R	IF
FOP Maintenance Equipment Storage	30	1	30	50	-	Located adjacent to FOP or within close proximity.	-	-	I			F	I					R	IF
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	To refer to FINA HANDBOOK PART IX FACILITIES RULES.	-											
Playing Surface Dimensions or Area	-	-	-	-	-	-	Indoor area with FOPs for each discipline. If this is not possible to have every discipline separate, swimming and synchronised swimming could share the same FOP.	Total area required may be greater than playing surface dimension. For all aquatics facilities the FR14 pool sanitation shall be required.	F			I		I	I			R	IF
Diving	-	-	-	4400	-	-	To refer to FINA HANDBOOK PART IX FACILITIES RULES: FR5, FR6.	The rules do not indicate the pool deck width, which should be 5 metres minimum.											
Swimming	-	-	-	4400	-	-	To refer to FINA HANDBOOK PART IX FACILITIES RULES: FR3, FR4.	The rules do not indicate the pool deck width, which should be 5 metres minimum.											
Synchronised	-	-	-	4400	-	-	To refer to FINA HANDBOOK PART IX FACILITIES RULES : FR11,FR12, FR13.	The rules do not indicate the pool deck width, which should be 5 metres minimum.											
Waterpolo	-	-	-	2600	-	-	To refer to FINA HANDBOOK PART IX FACILITIES RULES : FR8, FR9.	The rules do not indicate the pool deck width, which should be 5 metres minimum.											
Vertical Height Requirement	-	Varies	-	-	-	-	-	Dependent upon number of spectators.	F			I	I					R	IF
Surface	-	-	-	-	-	-	Water. Temperature: 26° C, +/- 1° C.	-	J		J	I						R	IF
Orientation	-	-	-	-	Orientation of FOP area, if applicable, such as north-south axis	-	North , South orientation.	-	J		J	I		I	J			R	IF

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Sports Lighting - Technical	-	-	-	-	-	-	See Broadcast for lighting specifications.	-												
Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	-	Light intensity shall be at a level of 1m above the water surface. A minimum of 1500 lux is required.	-												
Warm-up Surface Dimensions or Area	-	-	-	-	-	-	-	-	J			J			I	J		R	IF	
Diving	20	1	20	-	-	Adjacent to diving pool, so divers can view FOP.	Diving: an area of 4m x 5m with a temperature controlled water bath of 2m x 3.5m.	Total area required may be greater than playing surface dimension.												
Swimming	-	-	-	-	-	Adjacent to main pool.	Swimming: adjacent to main pool, 50m w/ 6 lanes	-												
Synchronised	40	1	40	-	-	In close proximity to FOP.	Area only for land drills.	-												
Waterpolo	600	1	600	-	-	Located in close proximity to FOP.	30 x 20 metres.	-												
Surface	-	-	-	-	-	-	Water. Temperature: 26° C, +/- 1° C.	-	J			J	I			J		R	IF	
Orientation	-	-	-	-	Orientation of warm-up area, if applicable, such as north-south axis.	-	North , South orientation.	-	I			F	I					R	IF	
Athlete Call Room	-	-	-	-	-	Adjacent to FOP.	Area composed of a check-in room, waiting room, and final call room. Open area for exercise or warm-ups.	-	I			F						R	IF	
Swimming, Diving, Synchronised	200	1	200	250	An area where athletes and officials stage prior to the heat or match.	-	-	-												
Control Centre	-	-	-	-	-	-	See Technology and Sport Presentation/Production requirements.	-												
Camera Positions - Biomechanics	4	1	4	10	Area for cameras.	Located at the deck of the pool.	Area only.	-												
Athlete / Team Seating	-	-	-	-	A designated seating area for athletes.	-	-	-	J		I	J				J				
Same Sport	-	Varies	-	-	-	-	-	-	J		I	J				I		R	IOC,IF	
Different Sport	-	Varies	-	-	-	-	-	-	I		I	F				I		R	IOC	
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	May be required for Sport Staff use. Quantity varies according to athlete numbers.											P	
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	Required if FOP is not located near Athlete Area.	Assumes temporary units. Quantity varies according to athlete numbers.											P	
International Federation																				
IF Area	70	1	70	80	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located preferable at pool deck level.	Enclosed space.	Assumes container units or existing space.	I		I	F							R	IF
IF President's Office	15	1	15	-	-	-	-	-	I		I	F							R	IF
IF Secretary - General/Executive Director's Office	15	1	15	-	-	-	-	-	I			F							G	IF
Reception, Secretariat, Waiting & Work Area	40	1	40	-	-	-	-	-	I			F							G	IF
Honorary Secretary Office	15	1	15	-	-	-	-	-	I			F							G	IF
FINA Treasurer Office	15	1	15	-	-	Located within IF Area; adjacent to IF reception, Secretariat.	-	-	I			F							G	IF
IF Press Office	15	1	15	20	This space is utilised for the resolution of protests and appeals after competition.	-	-	-	I			F							G	IF
Bureau Meeting Room	70	1	70	75	-	Located in close proximity to FOP and IF area.	Enclosed space.	Assumes container units or existing space.	I			F							R	IF
Medical Committee Meeting Room	20	1	20	25	Meeting area for medical committee.	Located in close proximity to FOP and IF area.	Enclosed space.	Assumes container units or existing space.	I			F							G	IF
Lounge - International Technical Officials	100	1	100	160	A rest area for officials.	Located in close proximity to FOP and IF area.	Enclosed space.	Assumes container units or existing space. For all aquatic officials when in cluster style setup. Quantity and area may vary depending on venue/FOP layout.	J			J							G	IF
Officials Locker Room, Shower, Toilet	90	1	90	110	A change area for officials.	Close proximity to FOP.	Enclosed area with lockers, showers and toilets to accommodate 50 men and 50 women adjoining the pool.	Separate male and female facilities required.	I			F							R	IF
Technical Delegates Office & Work Area	15	4	60	75	Office area for Technical Delegates.	Located at pool deck level	Enclosed space for 2 Technical Delegates each: Swimming, Diving, Synchronised, Water Polo.	-	I		I	F				I			R	IF
Technical Committee Room	45	4	180	200	Meeting area for technical committee and judges.	Located at pool deck level	Enclosed space for each discipline.	-	I		I	F				I			R	IF
Technical Commission Room	20	4	80	100	Meeting area for technical commission and judges.	Located at pool deck level	Enclosed space for each discipline.	-	I		I	F				I			R	IF
TOs/Judges Meeting Room	120	1	120	180	Meeting area for Technical Officials and Judges.	Located at pool deck level	Enclosed space.	-	I		I	F				I			R	IF
Protest Room	-	-	-	-	Separate meeting area for protests.	Adjoining the TOs/Judges meeting room.	Enclosed room, attached to the TO/Judges meeting room.	-												
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I		J	J				J			R	IOC,IF

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Sport Presentation																			
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.											
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-				F							P
Announcer Position	3	1	3	-	-	-	-	-				F							P
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space. Staff Work, Green Room, Entertainer Staging and Dressing and Prop Storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.				F							P
Technology Operations																			
Technology Help Desk	20	1	20	25	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support staff & manager.	-				F							P
Venue Technology Operations (VTO)	25	1	25	32	OCOG Technology Operations area. Operational work space for entire Venue Technology team, including Partners & contractors.	Adjacent to or within Venue Operations Centre (VOC).	Medium security - lockable room. Air-conditioned as office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	-				F				G		P	
OCOG Venue Technology Work Area	-	1	-	-	Work space for Venue Technology Manager, Assistant Venue Technology Manager, Technology Staffing Manager and associated volunteer(s).	-	-	Work space size may be dependent upon workforce per shift.											
AV Contractor Work Area	-	1	-	-	Work space for AV contractors/Technicians.	-	-	Work space size may be dependent upon workforce per shift.											
IT Provider Work Area	-	1	-	-	Work space for IT staff and "home base" for IT volunteers.	-	-	Work space size may be dependent upon workforce per shift.											
Reprographic Provider Work Area	-	1	-	-	Work space for reprographic contractors/technicians	-	-	Work space size may be dependent upon workforce per shift.											
Mobile Phone Provider Work Area	-	1	-	-	Workspace for mobile phone provider.	-	-	Work space size may be dependent upon workforce per shift. Charging area for Venue Operations workforce phones may be required.											
Wired Communications Provider Work Area	-	1	-	-	Work space for Wired Communications contractors/technicians.	-	-	Work space size may be dependent upon workforce per shift.											
Timing & Scoring/OVR Provider Work Area	-	1	-	-	Work space for OVR/Timing and Scoring contractors/technicians.	-	-	May not be required if adequate working space is allocated in OVR room.											
Radio Distribution Room (RDR)	15	1	15	-	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E & workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).	I			F							P
Information Technology																			
Computer Equipment Room (CER)	20	1	20	25	Location for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.	I			F				G		P	
Data Local Area Network (LAN) Management Room & Store	25	1	25	32	LAN monitoring room & associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational staff & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces.				F				G		P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOC	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Telecommunication & Audio Visual																			
Telecomm. Equipment Room (TER) Primary	36	1	36	45	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	Raised flooring is preferable for cabling distribution, but not essential. No requirement for dedicated DV TER if located in Aquatics venue hosting SW, DV, WP, SY. One TER can service all disciplines of AQ..	I		F							P	
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.	I		F							P	
Telecomm. Operations & Store	25	1	25	32	Operational space for Telecommunications technical staff and associated storage for spare parts.	Adjacent to TER.	As TER with adequate FF&E to support operational staff & storage.	If located adjacent to TER, power supply boards, UPS units & A/C services can be common for both spaces. No requirement for dedicated DV Telecom Ops if located in Aquatics venue hosting SW, DV, WP, SY. One Telecom Ops can service all disciplines of AQ..	I		F							P	
Audio Control Positions																			
	-	-	-	-	-	-	-	-				F					G	P	
Venue	4	1	4	8	Area within Sport Production, location for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Production. Can be on FOP, in stands or in a booth with view to FOP.	High Security. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	Storage for country anthems.											
Press Conference	4	1	4	8	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), air-conditioned, waterproof. Work space & FF&E for operator.	PA system may also be used for Competition Draw if draw is held in Press Conference room.											
Warm-Up Area	0	0	0	-	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Within Warm-up area for Athletes.	Standard/mains power & FF&E.	-											
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-											
Workforce Break/Briefing	2	Varies	Varies	-	Area within Staff Break/Training room where audio control equipment is installed to facilitate meetings/training of large numbers of staff.	Workforce break/dining areas.	Standard/mains power & FF&E.	-											
Video Board Control	4	1	4	-	Area of video control for video board or video projection system. Operations integral with those of Sport Production.	Ideally with Sport Production. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	-				F					G	P	
Wired Communications Control	2	1	2	4	Area of wired communications master control station and support technician. System essential to operations of both Sport Production and Results/FOP management.	Near to or within Sport Production is preferable. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location is located outdoors. Good cable access to FOP, OVR Room, Sport Production, Broadcast Graphics Room & Results Printing required. Workspace & FF&E for one technician, control equipment, spare parts and containers/boxes for equipment.	As the wired comms system serves OVR, timing, scoring, presentation the system and master station will be sport/discipline specific event if all disciplines of AQ are held with in the same complex.				F					G	P	
Temporary PA equipment Room	2 min	1	2 min	4 min.	Temporary location for installation of PA active equipment (amplifiers etc) for venue PA system.	In existing PA equipment room, if applicable. May be located under venue seating/tribunes if existing room not available.	High Security. Fully redundant power (mains & standby generator) to equipment. Good cable access to speaker location and PA/Audio Control position required. Equipment installed in racks. Each rack set is 1000H x 600W x 600 D maximum.	Number of racks will depend on size of system deployed. Generally venues with large geographic area (outdoor) require larger installation and therefore more racks of amplifier equipment.				F						P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Timing, Scoring and Results Operations																			
Results Data Entry Position	-	-	-	-	Location(s) for event results and/or statistics data entry during competition.	As noted below.	High Security. Fully redundant power (mains & generator) with UPS to all results data entry equipment/workstations. Space & FF&E for all data entry personnel & results management staff.	Adequate weather (rain/sun) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
Field of Play	0	0	0	-	Areas/positions for results and/or statistics on the FOP.	Ideally located with Timing & Scoring Team, Sport Results Team and Officials.	-	May occur as a position on the FOP, or in a room with a view to the FOP.											
Back of House	0	0	0	-	Area back of house where data entry is performed into the OVR/Results System.	Sport Specific, but can be in warm-up or call areas.	-	Generally occurs Back of House, in Sport location.											
WATER POLO - Field of Play - Statistics Table	3	1	3	6	Areas/positions for statistics calling & data entry into OVR system.	Ideally located with Timing & Scoring Team & Technical Officials Table with sport statisticians.	-	May occur as a position on the FOP, or in a room with a view to the FOP.											
Timing and Scoring Position	-	-	-	-	Location(s) for event timing & scoring personnel & equipment during competition.	Sport Specific. However, all locations must have view to FOP	High Security. Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards & OVR room. Space & FF&E for operators and equipment.	Adequate weather (rain/sun) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
SWIMMING - Control Room	10	1	10	13	Location where automated results from "touch-pads" are collated & sent to OVR.	Control room located at Finish End of pool. To have view of pool, starting blocks & public scoreboard.	-	-											
DIVING - Field of Play - Judges Positions	7	7	49	-	Locations for event scoring & equipment.	Pool side judges positions.	Cable Pathway to Technical Table.	-											
DIVING - Field of Play - Technical / Referee Table	2	1	2	-	Positions for monitoring of scoring.	Pool side with view to Divers.	Cable Pathway to OVR Room.	-											
SYNCHRONISED - Field of Play - Judges Positions	9	9	81	100	Locations for event scoring operations & equipment.	Pool side judges positions.	Cable Pathway to Technical Table.	-											
SYNCHRONISED-FOP-Technical / Referee Table	2	1	2	4	Positions for event timing & monitoring of scoring.	Pool side with Sport Officials/Referees	Cable Pathway to OVR Room.	-											
WATER POLO-Field of Play-Technical/Officials	2	1	2	4	Positions for event timing & monitoring of scoring.	Pool side with Sport Officials/Referees	Cable Pathway to Technical Table.	-											
On Venue Results (OVR)	-	-	-	-	Location is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	Easy access to FOP critical for technical and results staff. View to FOP/Diving Platforms required.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Space & FF&E required for high density of computer workstations, racks for servers and working space for technicians, operators and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or venues where two sports occur concurrently will require more space for additional OVR equipment.	I	F								P	
OVR Provider Work Area	18	1	18	23	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO/CIS/PRD etc).	Ideally adjacent to IT provider work area.	-	-											
IT Provider Work Area	18	1	18	23	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-											
Scoreboard Control	-	-	-	-	Area for scoreboard control operations. Operations integral with those of Sport Production, data provided from OVR System. Space for both Control and Interface workstations & 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.	I	F							G	P	
Scoreboard Control	2	1	2	4	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator & workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-											
Scoreboard Interface	2	1	2	4	Area for interface equipment (PC workstations) linking OVR system & Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-											

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Results Printing (PRD)	60	1	60	75	Area for hard copy results production & distribution. Location of high intensity work involving many staff preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area & position for the Print Distribution Workstation (IDS interface) equipment and operator.	Near/adjacent to Press Workroom, access to Press Tribunes, Broadcast Commentary Positions, Sport Information Desk, Doping & Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specification. Space & FF&E required for equipment and operational staff as well as space for 1 x pallet of paper to support print/copy operations.	No requirement for dedicated DV PRD Room if located in Aquatics venue hosting SW, DV, WP, SY. One PRD Room can service all disciplines of AQ. Room Size (sqm) based on 4 x Results Copiers & 2 x Results Printers deployed. 15 Copiers minimum if PRD Room services all disciplines of AQ.	I	I	I	F				I		R	IF, Swatch
TV Graphics Interface	3	1	3	6	Area where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operators & good cable access to OVR room.	-				I		F			G	P	
Technology Storage																			
Technology General Storage	15	1	15	18	Area for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.					F				G	P	
IT Bulk Storage	30	1	30	38	Storage area for all spare IT equipment & associated boxes/containers.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to IT provider at all times.					F				G	P	
Reprographic Primary Storage Area	12	1	12	15	Primary storage/technical area in-venue for reprographic provider. Storage for spare parts, additional devices and consumables serving primarily Results Printing Operations.	In venue location adjacent to, or within Results Printing Room.	High Security - lockable. Standard office environment with standard power. Workspace & FF&E for one technician.	-	I			F					G	P	
Reprographic Bulk Storage Area	15	1	15	18	Storage area for bulk paper allocated to venue (multiple pallets).	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of paper required to support venue operations. Room Size (sqm) based on 15 pallets of paper minimum.					F				G	P	
Timing and Scoring Workshop	10	1	10	13	In venue storage & workshop for timing equipment, spare parts & small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.	-	I			F					G	P	
Timing & Scoring Bulk Store	20	1	20	25	Storage area for large crates & containers used for scoreboards and bulk equipment. Must be accessible to OVR provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of Timing & Scoring equipment deployed to venue. May be combined with Timing & Scoring Workshop if location & size of space meet requirements for venue.	I			F					G	P	
Audio Visual Bulk Store	30	1	30	38	Storage area for large crates & containers used for video boards, PA equipment & TV boxes. Must be accessible to Video/Public address provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of audio/video equipment deployed to venue.					F				G	P	
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closet. CCFs are to be installed in locations that allow for easy access for service technicians and which allow for easy cable access both from TER room and to user device locations.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Work Room.	High Security - lockable and weatherproof. May require fan or dedicated A/C depending on room location and/or configuration. Fully redundant power (mains and generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.	I			F						P	
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of power from data/voice and audio-visual cabling.	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in a manner which allows for easy access and repair/replacement. Legacy installations are to be installed as permanent while temporary (overlay) should be installed using methods which are easily installed and removed minimising potential damage to existing venue.					F					P	
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.	-	-	-											
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.	-	-	-											
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.	-	-	-											

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	-											
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	-											
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-											
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-											
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-											
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-											
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-											
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing and Scoring/OVR contractor.	I		F							P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.											
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I		F							P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the videoboard. Required for outdoor venues where the videoboard cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each videoboard.											
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Production on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I		F						G	P	
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to/from audio/PA amplification system and/or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend PA speakers from venue ceiling structure.	-	-	-											
Mobile Phone Infrastructure (antenna)	-	Varies	-	-	Infrastructure required to support installation of additional radio antenna & mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to/from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.	I		F						G	P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Ticketing																			
Ticket Box Office	50	1	50	125	An area at the venue where Olympic tickets are sold.	Adjacent to the secure perimeter; near the spectator entry point of the venue	Gross area includes internal & external queue.	Assumes container unit with disabled access to internal and external service window. Dependant upon venue layout and footprint, spectator access point locations.											P
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	20	1	20	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s)	20	1	20	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	36	1	36	72	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.											P
Driver Staging	110	1	110	200	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.											P
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside venue secure perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	30	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-											P
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from Host City, based on vehicle/bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J			J							P
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J			J							P
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				I							P
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.				F							G IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.				F							G IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.	I			F							G IOC
Spectator and Staff Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				F							P
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.	I			F							P
Accessible	-	-	-	-	-	-	-	Part of Spectator total.				F							P
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Surface areas paved or gravel.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have drop-off in close proximity to accredited entry point and then driver will park.				I							P
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.				F							P
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.				F							P
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-				J							P
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes vehicle circulation.				F							P
Emergency Services	-	-	-	50 (each)	-	Generally located inside the Secure Venue Perimeter.	-	Includes vehicle circulation.				F							P

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Venue Development																			
Site Management Compound	693	1	693	900	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Dependent upon venue footprint, extent of temporary works and number of contractors.											P
Site Management Area	75	1	75	-	-	-	Enclosed space.	-											
Site Manager & Assistant Site Manager(s) Work Area	12	1	12	-	Work and meeting area for the Site Manager and Assistant Site Manager.	-	-	-											
Site Administration Desk & Work Area	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-	-											
Response Team & Vendor Staging	30	1	30	-	On-site permanent and temporary facilities for specialty staff and general labor crew to be on-call.	-	-	-											
Secure Storage - Site Management	15	1	15	-	Area for storage.	-	-	-											
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.	-	Enclosed space. Area for office, staging and a secure storage area.	Assumes container units or existing space. Contractor usually installs container units at their own cost.											
Sign/Look Staging, Work Space/Secure Storage	60	1	60	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	-	Assumes container unit or existing space.											
Material Warehouse/Construction Work Space	115	1	115	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	-	Enclosed space.	Assumes tent or canopy with 2 side walls. Area for carpentry, painting and general construction. Storage for non-weather proof materials.											
Vendor Secure Storage	90	1	90	-	Area for containers, usually provided by the various temporary construction sub-contractors.	-	Enclosed space.	Assumes container units or existing space.											
Materials Staging Area	70	1	70	-	Area for the off-loading and loading of bulk construction materials.	-	Area only.	-											
Exterior Storage Area	70	1	70	-	Outdoor storage of material and products.	-	Area only.	Weatherproof area for large and bulk materials.											
Vehicle Staging	150	1	150	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	-	Area only.	Service, Repair & Specialty vehicles.											
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.	I		F								P
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.	-	I		F								P
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.	I		F								P
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.											
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-	-											

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Venue Management																			
Venue Operations Centre (VOC)	75	1	75	115	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Dependent upon venue capacity and venue layout.					F					P	
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-											
Assigned Desks	24	1	24	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	15	1	15	-	Shared work stations.	-	-	-											
Work Space and Storage	24	1	24	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	50	1	50	60	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.					F					P	
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	30	1	30	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	-											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	200	1	200	240	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre.	Enclosed space.	Assumes existing space or tent. Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.					F					P	
Workforce																			
Workforce Area	180	1	180	220	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.					F					P	
Check-In Area	115	1	115	-	Area to log-in venue staff and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Area	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	500	Varies	500	600	The space where workforce meals are served and where workforce can break during their shift.	A location that will provide easy access to all workforce for breaks and meals; will vary according to venue layout/size.	Enclosed space.	Quantity will vary according to venue layout for each discipline and/or FOP. Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon venue workforce numbers.					F					P	
END OF DOCUMENT																			

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Accreditation																						
Venue Accreditation Office	40	1	40	100																		
Day Pass Issue & Problem Resolution Desk	10	1	10	-	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	See Sport Operations - Call Room	Located in temporary structure. Assumes container/trailer unit or tent.										P				
Work Area	12	1	12	-																		
Manager Desk or Office & Storage	12	1	12	-																		
Waiting Area	6	1	6	-																		
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	-	Enclosed space. May be required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.				F						P				
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.				F										
Broadcast																						
Broadcast Compound	-	1	-	10 000	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements. Located in temporary structure. Assumes container/trailer unit or tent.				J		J				R	IOC			
Broadcast Management Office	70	1	70	175	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.				I		F				G	IOC			
Broadcast Manager Office	12	1	12	-		-	-	-	-													
Work Room, Assigned & Unassigned Desks	58	1	58	-		-	-	-	-													
Technical Operations Centre	60	1	60	150	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.				I		F				R	IOC			
Broadcast Catering	175	1	175	220	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.														
Kitchen & Prep	25	1	25	-		-	-	-	Assumes container unit or tent.													
Buffet Line & Dining	150	1	150	-		-	-	-	Assumes container unit or tent.													
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements.														
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Assumes container units.														
Mobile Unit(s)	65	Varies	Varies	-	-	-	-	-														
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters.														
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Assumes container units.														
Mobile Unit(s)	65	Varies	Varies	-	-	-	-	-														
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.														
Toilets	1.5	12	18	54	Toilet units designated for broadcast personnel. Serves as a secondary unit to the main compound to house various broadcast technical needs that are required for Broadcast to cover the full competition FOP or area.	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.														
Secondary Broadcast Compound	-	-	-	2000		Located adjacent to FOP.	Enclosed space with incoming television cable.	Assumes existing space or container.				J		J				R	IOC			
Toilets	1.5	2	3	9	Toilet units designated for broadcast personnel.	-	Enclosed space.	Assumes existing space or container.														
Commentator Control Room	150	1	150	165	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in close proximity to commentator position area.	See Venue Technology, Timing/Results/Scoring.	-				I		F				R	IOC			
Broadcast Information Office (BIO)	25	1	25	30	Space for broadcast management and team meetings.	Located near commentator positions and CCR.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.				J		J				R	IOC			
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-				J		J				G	IOC			
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J			J	J			R	IOC			
Mixed Zone	80	1	80	300	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Adjacent to the FOP	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths; the mixed zone is designed according to IOC rules.	-	I	I	J			J	I			R	IOC, IF			

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Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in seating areas with view to FOP and covered when possible.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Outdoor commentator positions should have the option of cover for protection from various weather conditions (e.g. sun, rain). Space for commentator positions may vary according to actual venue/permanent seating setup.										R IOC	
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	Located at the rear of the commentator grouping so as not to disrupt the FOP view of other commentator positions.	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	A com-cam position equals 2 adjacent commentator positions.											
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions	1 position = uses 1 seat in existing seating bowls.											R IOC	
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval. Space for camera positions may vary according to actual venue/permanent seating setup.	J									R IOC	
Camera Position - Other	4	130	520	1170	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	Space for camera positions may vary according to actual venue/permanent seating setup.	I									R IOC	
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.											G IOC	
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.											G IOC	
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in BOH areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.										G IOC	
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography, in conjunction with OBS and IFs.	J									R IOC	
Catering																			
Catering Compound	394	1	394	600	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity.										P	
Work Areas - Catering Management	24	1	24	-	Operational work space(s).	Generally, located in Catering Compound or possible the VOC.	Enclosed space.	Assumes existing space or container.											
Organising Committee Catering Manager	-	-	-	-		-	See Venue Management - VOC.	-											
Catering Contractor	12	1	12	-		-	-	-											
Beverage Contractor	12	1	12	-		-	-	-											
Dry, Cold & Ice Storage	38	4	152	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.											
Vehicle Staging	50	1	50	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-											
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-											
Kitchen & Preparation Area	54	1	54	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.											
Uncovered Storage	50	1	50	-	Outdoor storage of material and products.	-	Area only.	-											
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	-											
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary). The temporary holding and distribution of potable water in accordance with local health code standards.	Located in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container(s). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity, level of catering activity.										P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	-											
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	-											
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue catering facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-										P	

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Ceremonies																			
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-										P	
Ceremonies Staging	20	1	20	25	For the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule; to coordinate location of podium, procession, and recession route, and location of flagpoles.	Adjacent to or close to FOP.	Consists of coordinator work space with area for secure storage, preparation and dressing area. See below for additional details.	Assumes existing space or container.										P	
Manager Desk	6	1	6	-	Work space for Manager.	-	-	-											
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.											
Presenters, Medal/Flower staging, Secure medal and flag storage	12	1	12	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.											
Presenter Preparation & Dressing	4	2	8	-	A dressing and preparation area for Presenters.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.												
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	-	Limited use, may be shared with other space. See Sport Presentation.	-											
Awards Podium Storage	8	1	8	12	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	Adjacent to FOP										P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.	I	J	J					J	G	R	IOC
Cleaning and Waste																			
Cleaning & Waste Compound	175	1	175	250	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependent upon venue capacity.										P	
Vehicle Staging	50	1	50	-	Parking area for collection vehicles which generally remain inside the venue.	-	Area only.	-											
Sorting Area	50	1	50	-	Area for sorting waste.	-	Area only.	-											
Waste & Recycle Containers	15	3	45	-	Area in front of waste and recycle bins where material is separated for containment.	-	Area for containers. Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast). Assumes 30 cubic meter capacity each. Power requirement for compactor motor.											
Compactor Unit	25	Varies	Varies	-															
Equipment Supply & Storage	15	1	15	-	Space for cleaning equipment and paper product.	-	Enclosed space.	Assumes container unit.											
Contractor Office	15	1	15	-	Space for management and workforce staging.	-	Enclosed space.	-											
Doping Control																			
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	An Office and storage area will be incorporated into the existing spaces (e.g. waiting area/reception).	J	J	J							R	IOC
Waiting Area/Reception	16	1	16	20	Area where athletes check-in and wait prior to testing.	-	-	-											
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).											
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer. Wash basin for hand sanitisation.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).											
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-	I	J	J							R	IOC

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner or Operator	Government	OBS-OBO	IPC	G - Generic Space R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Event Services																		
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.				F					P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-										
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).										
Briefing Area	Varies	Varies	Varies	-	Area for briefing of staff pre and post shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large group.	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.				F					P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.				F					P	
Information Desk	-	-	-	-	-	-	-	-										
Lost & Found	-	-	-	-	A holding area for items found in the venue.	-	-	-										
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spectators.	-	-	-										
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	Adjacent to Public Information.	-	-				F					P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes 12m away from covered search area.	Total number generally 50% of security screening positions.				F					P	
Stroller Storage	72	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	-	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.				F					P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.				F					P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators				F					P	
Spectator Shade & Shelter	1	Varies	Varies	-	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and event services areas.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.				F					P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-				F					P	
Spectator Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators.	-	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.				F					P	
Hand Wash Stations	1	Varies	Varies	6 (per 20 toilets)	A chemical unit used in the absence of potable water.	-	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.				F					P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner or Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Finance																			
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I		F						P	
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Generally located inside venue perimeter and outside venue perimeter.	Area only.	Quantity dependent upon venue capacity.		I		F						P	
Language Services																			
Work Area / Desk	15	1	15	20	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre.	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-			J	J			I			G	IOC
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference needs.	-			J	J			I			G	IOC
Logistics																			
Logistics Compound	-	1	Varies	500	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access. Secondary Compound Area - an additional compound area may be necessary for staging or storage of equipment that is in close proximity to FOP and/or the finish area.										P	
Logistics Centre	40	1	40	-	-	-	Enclosed space.	Assumes container units or tent.											
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-											
Team Staging/Work Area	25	1	25	-	Space for staging and a work area.	-	-	-											
Secure Storage & Equipment Sign-out	12	1	12	-	Area for storage.	-	Storage for tools.	-											
Warehouse Storage	65	1	65	-	Storage area for furniture, fixtures, and equipment (FF&E).	-	Enclosed space.	Assumes tent											
Storage Yard	50	1	50	-	Outside storage area within compound.	-	Area only.	-											
Vehicle Staging	75	1	75	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-											
Fuel Tank(s)	9	Varies	Varies	-	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.											
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.											
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.											
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.											
Material Transfer Area (MTA)	-	1	-	400	An area where packages or other items are delivered when they arrive outside the venue delivery schedule times.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.										G	P
X-Ray Area	18	1	18	36	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.											

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner or Operator	Government	OBS-OBO	IPC	G - Generic Space Requirement, G- Guideline, P-Precedent Source of Requirement or Guideline: IOC, IF, L-Legislation	R	P	IOC				
Look of the Games																								
Work Area and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.												P				
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J									R	IOC			
National Olympic Committee (NOC) Flags	-	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.												R	IOC			
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and back of locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J								J	G	R, P	IOC, IF	
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals.	-																
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH).	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	-		I	J	J								J	G	R	IOC, L	
Backdrop - Press Conference Room	2.2 x 6	1	2.2 x 6	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-																
Medical Services																								
Athlete Medical	50	1	50	75	An area where Medical provides services to athletes competing at the venue.	Adjacent to the athlete call room.	Course requirements: critical care with first response teams, roving medical vehicles with mobile emergency aid, finish line personnel with triage officer ready for treatment of athletes.	Assumes container or existing space.	J	J	J									J	S	IF		
Reception & Waiting	10	1	10	-	Area where athletes check-in and wait prior to examination.	-	-	-																
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-																
Examination Area(s)	8	2	16	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-																
Physiotherapy Area(s)	8	1	8	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-																
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.																
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J									J	S	IF		
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.																
Spectator Medical	40	1	40	80	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed air-conditioned space. 1 per 20,000 spectators	Assumes container unit or existing space.												I	F	I	I	P
Reception & Waiting	10	1	10	-	Area where spectators check-in and wait prior to examination.	-	-	-																
Medical Work Space & Secure Storage	12	1	12	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-																
Examination Area(s)	8	2	16	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-																
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Triage Station	9	1	9	18	Additional space to treat minor medical needs of spectators.	-	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.												I	F	I	I	P
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.																P
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Paved, graveled or grass area with fence, barricade or rope enclosure.	-																P

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Merchandise																				
Office, Cash Room & Work Area	12	1	12	15	An area to manage the retailing of all Olympic merchandise inside the venue.	-	Enclosed space with secure entry.	Assumes container unit or existing space.										P		
Storage	15	1	15	20		-	-	Assumes storage containers or existing space.				F							P	
Program Sales Stands/Booths	1	1	1	2		-	Area only.	Units provided by vendor. Quantity and location decided by vendor and OCOG.				F							P	
Merchandise Points of Sale (POS)	6	Varies	Varies	18		Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.	Gross area is per each P.O.S. and includes service area and queue.		I		F						P	
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-		I	J	J					G	R	IOC	
Olympic Family Services																				
Olympic Family Lounge	162	1	162	370	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes tent.		I		F					I	G	G	IOC
Welcome Desk & Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-	-												
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.	-												
Staff/Volunteer Room & Storage	9	1	9	-	On-call waiting area for Protocol staff and equipment storage.	-	-	-												
Dining & Lounge	90	1	90	-	Area for dining and lounge.	-	-	-												
Preparation/Buffer set-up/Beverage Area	45	1	45	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Staff/Volunteer, Athlete, Media)	-												
Toilets	20	1	20	40	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	6 female, 6 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided.			I	F					I	G	G	IOC
Protocol flags	-	-	-	-	-	-	See Look of the Games	-			J	J					J	R	IOC	
Press Operations																				
Venue Media Centre (VMC)	600	1	600	800	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Conference Room and Photo Positions.	Close proximity to Press Tribune, Press Conference room, and Mixed Zone area.	Enclosed space for 450 press and 75 photographers.	Assumes tent.				F						R	IOC	
Reception & Information Desk	24	1	24	-	Welcome desk at the entrance, for information distribution.	-	-	-												
Storage	6	1	6	-	Equipment storage.	-	-	-												
Press Manager Office	12	1	12	-	Operational work space.	-	-	-												
Photo Manager Office	12	1	12	-	Operational work space.	-	-	-												
Olympic News Service (ONS) Work Room or Area	35	1	35	-	Operational work space.	-	Enclosed space.	-												
Info Stations	28	1	28	-	Computer stations and printers.	-	-	-												
Press Work Room or Area	240	1	240	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.												
Photo Work Room or Area	50	1	50	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.	-												
Photographers Check-in & Photo Bib Distribution	12	1	12	-	Area where photographers register and receive/return photo bibs.	-	-	-												
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.												
Lounge/Catering Prep	100	1	100	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-	-												
Toilets	1.5	8	12	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided												

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner or Operator	Government	OBS-OBO	IPC	G - Generic Space Requirement, G-Guideline, P-Precedent Source of Requirement or Guideline: IOC, IF, L-Legislation		
Press Conference Room	150	1	150	280	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I			F					R	IOC	
Seating Area	100	1	100	-	An area for accredited press.	-	Seats and standing room.	-											
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3.6 m table, 8 chairs & step and repeat backdrop.	-											
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-											
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-											
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-				F			I	I			
Mixed Zone	60 linear mtrs.	1	60 linear mtrs.	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I		I	F						R	IOC,IF
Press Tribune	-	-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	-	Tabled seating is fitted out with telephones, television monitors, power and other press facilities (indoor venues). For outdoor venues, these services will exist in VMC.	-											
Press Tabletop Seating	Varies	Varies	Varies	-	-	Easy access from Venue Media Centre and direct access if possible to Mixed Zone.	In an existing stadium or seating area: 1 seat wide (folding chairs at 60 cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50 cm deep tabletop per position, each position = 2 stadium seats. Temporary Stands: 1 seat (folding chairs at 60 cm spacing) x 2 rows deep of proposed seating system (normally 150 cm-170 cm deep).	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.			I	F						R	IOC,IF
Press Seating (non-tabled)	Varies	Varies	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.			I	F						R	IOC,IF
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided											
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-											
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	Photo truck with seated tribune. Motor bikes for pool photographer(s).	60 cm wide x 90 cm deep per position, multi-row areas require 60 cm riser per row.	Power, Wireless and data cabling needed to photo positions on FOP.	J		I	J						R	IOC, IF
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Normal seating areas.	-	Seating areas are generally not applicable for outdoor venues.	I		I	F						G	IOC
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

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Security																		
Security Command Centre	100	1	100	120	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.										
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-										
Security Work Area	15	1	15	-	An area for additional security agencies.	-	-	-										
CCTV Surveillance & Video Desk	12	1	12	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-										
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.										
Radio Dispatch & Monitoring	12	1	12	-	An area for the monitoring and control of security communication and the distribution/return of radios.	-	-	-										
Work Room	40	1	40	-	Open plan of work stations designated for security personnel.	-	-	-										
Secure Storage	8	1	8	-	An area for Security equipment storage.	-	-	-										
Dog Cage(s)	4	Varies	Varies	8 (each)	Holding area for security dogs.	-	Area only for enclosed portable units (e.g. cages)	Dependent on Host City / Country / Risk Assessment										
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-										
Briefing and Break Area / Staging Area	75	1	75	-	Area for briefing staff before and after shifts.	-	Enclosed space.	Assumes tent.										
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.										
Vehicle Screening & Sanitisation Area	377	1	377	500	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.										
Vehicle Queue	100	1	100	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-										
Oversized Vehicle Queue	70	1	70	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-										
Vehicle Sanitisation & Wanding Areas	100	1	100	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.										
Oversized Vehicle (Truck & Bus) Sanitization	70	-	70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-										
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.										
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Staff staging and break enclosed space.	-										
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.										
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the Venue Secure Perimeter and/or venue screening area for constituents.	-	-										
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-										
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-										
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-										
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.										

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner or Operator	Government	OBS-OBO	IPC	G - Generic Space R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the Venue Secure Perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	-				F					G	P	
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the Venue Secure Perimeter.	Net area for each screening position will accommodate: 4 Wanding Stations, OR - 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue.											
Athlete / Team	18	1-2	18-36	36-72	-	-	Screening and search area is covered.	-	I		F						I	P	
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	-	-	Entrance can be combined with Athlete and/or Olympic Family.	I		F						I	P	
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	-	-	Entrance can be combined with TO, ENG and/or Press.	I	I	F						I	P	
Broadcast	18	1-2	18-36	45-90	-	-	Screening and search area is covered. Direct access from outside venue perimeter into Broadcast Compound.	Search area is covered. Direct access from outside venue perimeter into Broadcast Compound.			F			I				R	IOC
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	-	-	-											
Press and Photographer	18	1-2	18-36	36-72	-	Located in close proximity if possible to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast) preferably leading directly into Press areas.	-			F							R	IOC
Staff, Volunteer, Contractor & Vendor	18	2-3	36-54	90-135	-	-	-	-			F							G	IOC
Spectator / Sponsors	18	Varies	Varies	54	-	-	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-			F								P
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.											
Exception Gate	-	-	-	-	Access gate for designated accredited personnel.	Located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.											
X-ray of bags	54	Varies	Varies	100 (each)	Device for screening bags/equipment coming into the venue.	-	-	-			I	F					G	P	
Venue Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	-			F	I						P	
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	Located at each security screening area, 1m to 3m width, sometimes used as a secondary service vehicle exit point.	-											
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m in width, number varies per concourse design.	-											
Staff, Volunteer, Contractor & Vendor	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	-											
Sponsor Services																			
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.			I	F						P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner or Operator	Government	OBS-OBO	IPC	G - Generic Space R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Sport Operations																		
Competition Management	24	1	24	35	A work area for Sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located close to Athlete Area and FOP; may be co-located within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space.	I			F						P
Competition Manager & Asst. Mngr. Desks	12	1	12	-	An area for the Manager and Assistant(s) Manager.	-	-	-										
Work Area	12	1	12	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-										
Athlete Toilets	1.5	10	15	30	Toilet units designated for athletes.	Located in Athlete Area.	Enclosed space. Separate male and female facilities.	Assumes container units or existing space. If the start is at an existing Stadium, existing facilities can be used; if the start is in a remote location, suitable facilities of can be provided but not a high priority as athletes will generally return to the Village for showers, etc..	J		J						R	IF
Call Room / Sport Information	150	1	150	250	For the final check of the competitors prior to their entry on to the course.	Located near race start area.	Building or covered area (can be a tent) in the vicinity of the Marathon Start to be used for changing rooms with sections for physiotherapy, massage, coaches briefings, toilets. Approximately 400m should be reserved for the call room activities, furnished with tables for bibs, chips, uniform checks etc. IAAF recommends 4 – 5 access points.	Assumes tent. A magnetometer operation may be necessary for accredited persons (that are not arriving from a clean area) entering the call room area.										
Physiotherapy Area	4	7	28	40	Area for athlete physiotherapy.	Located near race start area.	Covered area for 7 physio tables.											
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	The characteristics may vary greatly and depend on many different factors that influence the choice of the final course. The IAAF Distance Running Manual illustrates the basic requirements according to the different possible solutions (with reference to IAAF Rule 240).											
Playing Surface Dimensions or Area	-	-	-	-	-	-	-		F		I			I	I		R	IF
Marathon	42.195k	1	42.195k	-	-	Ideally, start and finish in an athletic stadium	Standard Marathon length: 42.195k. May be a loop, in this case dimensions are reduced accordingly. The start and finish points, measured along a straight line between them should not be further apart than 50% of the race distance.	Total area required may be greater than playing surface dimension. Sport Start Platform - may require this at the race start area.										
Race Walk	50k & 20k	1	50k & 20k	-	-	Ideally, start and finish in an athletic stadium	Standard Race Walk length: 50k and 20k.	Total area required may be greater than playing surface dimension.										
Surface - Marathon / Race Walk	-	-	-	-	-	-	The start and or finish may be inside the Stadium on the synthetic surface. The race shall be run on made-up tarmac roads, but may be on a bicycle paths or footpaths (tarmac surface) but not on grass verges or the like (IAAF Rule 240.2).		J		J	I					R	IF
Orientation - Marathon / Race Walk	-	-	-	-	-	Orientation of FOP area.	The orientation is not relevant but the distance between the start and the finish, as well as the gradient, are recommended to be within certain limits (refer to IAAF Distance Running Manual).		J		J	I		I	J		R	IF
Course Requirements																		
Refreshment & Drink/Sponge Station(s)	-	-	-	-	An area that provides Athletes with refreshments, drinks, sponging along the course.	Every 5k along the race course.	Area only. Drinking/sponging stations to be placed mid-way between the refreshment stations. Each station shall have one table for each country (individual athletes may share, up to five per table.).	Stations include table and chairs.										
Small Feed Stations	70 x 3	7	1470	-	-	-	-											
Big Feed Stations	250 x 3	8	6000	-	-	-	-											
Toilets	1.5	15	22.5	35	Toilet units designated for athletes.	Located along FOP/race course.	Required at each feed / refreshment station.	Assumes temporary units.										
Showers	1.5	15	22.5	35	Shower units designated for athletes.	Located along FOP/race course.	Required at each feed / refreshment station.	Only required in extreme heat conditions.										
Sports Lighting - Technical	-	-	-	-	-	-	See Broadcast for lighting specifications.	-										

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner or Operator	Government	OBS-OBO	IPC	G - Generic Space Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation		
Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	-	-	-												
Warm-up Surface Dimensions or Area Surface	15 000	-	-	-	-	Adjacent to start area.	Depends on the number of athletes entered for the event. Adequate area would be 500m in length x 30-40m in width.	Use of an existing track at start area or use of actual FOP. Total area required may be greater than playing surface dimension.	J		J				I	J		R	IF	
	-	-	-	-	-	-	Same as race course.	-	J		J	I			J			R	IF	
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	Required if FOP is not located near Athlete Area.	Assumes temporary units. Quantity varies according to athlete numbers.				F						P		
International Federation																				
IF Area	-	-	-	-	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located in close proximity to accredited seating areas.	Enclosed space. At race start, only requirement is 4 seats	Race will normally finish in an existing Stadium; will use facilities/spaces where possible at finish stadium.	I		I	F							R	IF
ITOs & NTOs Briefing Room	-	-	-	-	Area for briefing ITOs and NTOs prior to race start.	-	Use staff break area at race start.	-	I		F								R	IF
Sport Presentation																				
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.												
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-				F							P	
Announcer Position	3	1	3	-	-	-	-	-				F							P	
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space. Staff Work, Green Room, Entertainer Staging and Dressing and Prop Storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.												
Technology Operations																				
Technology Help Desk (Race Start Area)	5	1	5	-	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support staff & manager.	-				F							P	
Venue Technology Operations (VTO) - Race Start Area	10	1	10	-	OCOG Technology Operations area. Operational work space for entire Venue Technology team, including Partners & contractors.	Adjacent to or within Venue Operations Centre (VOC).	Medium security - lockable room. Air-conditioned as office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	-				F					G	P		
OCOG Venue Technology Work Area	-	1	-	-	Work space for Venue Technology Manager, Assistant Venue Technology Manager, Technology Staffing Manager and associated volunteer(s).	-	-	Work space size may be dependent upon workforce per shift.												
AV Contractor Work Area	-	1	-	-	Work space for AV contractors/Technicians.	-	-	Work space size may be dependent upon workforce per shift.												
IT Provider Work Area	-	1	-	-	Work space for IT staff and "home base" for IT volunteers.	-	-	Work space size may be dependent upon workforce per shift.												
Reprographic Provider Work Area	-	1	-	-	Work space for reprographic contractors/technicians	-	-	Work space size may be dependent upon workforce per shift.												
Mobile Phone Provider Work Area	-	1	-	-	Workspace for mobile phone provider.	-	-	Work space size may be dependent upon workforce per shift. Charging area for Venue Operations workforce phones may be required.												
Wired Communications Provider Work Area	-	1	-	-	Work space for Wired Communications contractors/technicians.	-	-	Work space size may be dependent upon workforce per shift.												
Timing & Scoring/OVR Provider Work Area	-	1	-	-	Work space for OVR/Timing and Scoring contractors/technicians.	-	-	May not be required if adequate working space is allocated in OVR room.												

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Radio Distribution Room (RDR)	15	1	15	-	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E & workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).	I		F						P	
Information Technology																		
Computer Equipment Room (CER) - Race Start Area	16	1	16	-	Area for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.	I		F						G	P
Data local Area Network (LAN) Management Room & Store - Race Start Area	25	1	25	-	LAN monitoring room and associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational staff & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces.				F					G	P
Telecommunication & Audio Visual																		
Telecomm. Equipment Rm. (TER) Primary - Race Start Area	36	1	36	-	Includes telecommunications equipment (PABX, structured cabling racks for data and voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	Raised flooring is preferable for cabling distribution, but not essential.	I		F							P
Telecomm. Equipment Rm. (TER) Secondary - Race Start Area	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.	I		F							P
Telecomm. Operations & Store - Race Start Area	20	1	20	-	Operational space for Telecommunications technical staff and associated storage for spare parts.	Adjacent to TER.	As TER with adequate FF&E to support operational staff & storage.	If located adjacent to TER, power supply boards, UPS units & A/C services can be common for both spaces. Size based on increased requirement for storage and technicians to service AT Stadium.	I		F							P
Audio Control Positions	-	-	-	-	-	-	-	-				F					G	P
Venue - Race Start Area	4	1	4	-	Area within Sport Production, location for audio control & playback equipment and audio operators.	Front of House PA.	High Security. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	Storage for country anthems.										
Press Conference	4	1	4	-	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), air-conditioned, waterproof. Work space & FF&E for operator.	PA system may also be used for Competition Draw if draw is held in Press Conference room.										
Warm-Up Area	4	2	8	-	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Within Warm-up/call room areas for Athletes.	Standard/mains power & FF&E.	-										
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-										
Workforce Break/Briefing	2	Varies	Varies	-	Area within Staff Break/Training room where audio control equipment is installed to facilitate meetings/training of large numbers of staff.	Workforce break/dining areas.	Standard/mains power & FF&E.	-										
Video Board Control	4	1	4	-	Area of video control for video board or video projection system. Operations integral with those of Sport Production.	Ideally with Sport Production. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	Requirement based on deployment of Videoboard to ATH (mobile board).				F					G	P
Wired Communications Control	2	1	2	-	Area for wired communications master control station and support technician. System essential to operations of both Sport Production and Results/FOP management.	Near to or within Sport Production is preferable. Otherwise can be located in VTO or other secure location.	Utilise Main Stadium facilities; same as Athletics. Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location if located outdoors. Good cable access to FOP, OVR Room, Sport Production, Broadcast Graphics Room & Results Printing required. Workspace & FF&E for one technician, control equipment, spare parts and containers/boxes for equipment.	-				F					G	P

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Temporary PA equipment Room	2 min	1	2 min	-	Temporary location for installation of PA active equipment (amplifiers etc) for venue PA system.	In existing PA equipment room, if applicable. May be located under venue seating/tribunes if existing room not available.	Utilise Main Stadium facilities; same as Athletics. High Security. Fully redundant power (mains & standby generator) to equipment. Good cable access to speaker location and PA/Audio Control position required. Equipment installed in racks. Each rack set is 1000H x 600W x 600 D maximum.	Number of racks will depend on size of system deployed. Generally venues with large geographic area (outdoor) require larger installation and therefore more racks of amplifier equipment.									P		
Timing, Scoring, & Results Operations																			
Results Data Entry Position	-	-	-	-	Area(s) for event results and/or statistics data entry during competition.	As noted below	High Security. Fully redundant power (mains & generator) with UPS to all results data entry equipment/workstations. Space & FF&E for all data entry personnel & results management staff.	Where data entry occurs outdoors, adequate weather (rain/sun) protection for equipment/workstations to be provided.	I	I	I	F					R	IF, Swatch	
Field of Play - Marathon Finish	4	1	4	-	Areas/positions for results and/or statistics on the FOP.	Located adjacent to Timing & Scoring Team, Sport Results Team and Officials.	Areas/positions for results data entry <u>on the FOP</u> at Marathon Finish venue.	May occur as a position on the FOP, or in a room with a view to the FOP.											
Race Walk Course	22	11	242	-	Positions along Race Walk located with event Judges.		Areas/positions for results data entry around the AT Stadium FOP. 6 x positions maximum operational at any time. Positions must be flexible to allow for movement of personnel and equipment to facilitate competition.	May occur as a position on the FOP, or in a room with a view to the FOP.											
Walking Secretariat	6	1	6	-	Positions within Sport Walking Secretariat.		Position within secretariat where data from all penalty data entry points collated and sent back to Stadium Timing & Scoring Room.	Cable pathway to 2 x warning posting scoreboards along Race Walk Course.	I	I	I	F					R	IF, Swatch	
Timing and Scoring Position	18	11	198	-	Area(s) for event timing & scoring personnel & equipment during competition.	Sport Specific. However, all locations must have view to FOP	High Security. Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards & OVR room. Space & FF&E for operators and equipment.	Adequate weather (rain/sun) protection for equipment/workstations to be provided.	I	I	I	F					R	IF, Swatch	
Field of Play - Race Start Area	2	1	2	-			Timing & Scoring position at Marathon start & Race Walk start area.												
Field of Play - Intermediate Timing Positions	14	9	126	-			Intermediate timing locations along Marathon route every 5km. May be installed as portable buildings/vans.	Data/phone lines required at each intermediate location as specified by Timing & Scoring Provider.											
Field of Play - Race Finish Area	2	1	2	-			Timing & Scoring position at Marathon Finish venue.												
Race Walk - Intermediate Timing Hut (1000m)	3	1	3	-		Located adjacent to Results Data Entry, as defined by sport FOP layout to support all disciplines of AT.	Areas/positions for results data entry around the AT Stadium FOP. 6 x positions maximum operational at any time. Positions must be flexible to allow for movement of personnel and equipment to facilitate competition.	Assumes Tent.											
Race Walk - Intermediate Timing Hut (2000m)	3	1	3	-				Assumes Tent.		I	F							P	
On Venue Results (OVR) - Finish Area Only	63	1	63	-	Area is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	Easy access to FOP critical for technical and results staff.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Space & FF&E required for high density of computer workstations, racks for servers and working space for technicians, operators and managers.	No requirement for dedicated OVR for Marathon if equipment can be installed to existing OVR at Athletics/finish venue location.		I	F							P	
OVR Provider Work Area	20	1	20	-	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO/CIS/PRD etc).	Ideally adjacent to IT provider work area.													
IT Provider Work Area	18	1	18	-	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.													

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner or Operator	Government	OBS-OBO	IPC	G - Generic Space R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Scoreboard Control	4	1	4	-	Area for scoreboard control operations. Operations integral with those of Sport Production, data provided from OVR System. Space for both Control and Interface workstations and 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Space & FF&E for control equipment & operators (2) maximum.	Scoreboard Control location & equipment shared with Athletics Venue/Finish Venue..	I		F						G	P	
Scoreboard Control	2	1	2	-	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator and workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-											
Scoreboard Interface	2	1	2	-	Area for interface equipment (PC workstations) linking OVR system and Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-											
Results Printing (PRD)	250	1	250	-	Area for hard copy results production and distribution. Location of high intensity work involving many staff preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area and position for the Print Distribution Workstation (IDS interface) equipment and operator.	Near/adjacent to Press Workroom, access to Press Tribunes, Broadcast Commentary Positions, Sport Information Desk, Doping & Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specification. Space & FF&E required for equipment and operational staff as well as space for 1 x pallet of paper to support print/copy operations.	PRD Room/Equipment shared with Athletics Venue/Finish Venue..	I	I	F							R	IF, Swatch
Results Print Work Area(s)	215	Varies																	
Runners Work Area	35	Varies				Adjacent to Results Print Work Room(s)	Location dedicated for runners & print operators separate from the Results Work Room.	Area to have adequate seating for runners and operators and space for pallets of paper.											
TV Graphics Interface	3	1	3	-	Area where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operators & good cable access to OVR room.	-				I		F			G	P	
Technology Storage																			
Technology General Storage	30	1	30	-	Area for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F					G	P	
IT Bulk Storage	60	1	60	-	Storage area for all spare IT equipment & associated boxes/containers.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to IT provider at all times.				F					G	P	
Reprographic Primary Storage Area	12	1	12	-	Primary storage/technical area in-venue for reprographic provider. Storage for spare parts, additional devices and consumables serving primarily Results Printing Operations.	In venue location adjacent to, or within Results Printing Room.	High Security - lockable. Standard office environment with standard power. Workspace & FF&E for one technician.	-	I		F						G	P	
Reprographic Bulk Storage Area	60	1	60	-	Storage area for bulk paper allocated to venue (multiple pallets).	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of paper required to support venue operations.				F					G	P	
Timing and Scoring Workshop	10	1	10	-	In venue storage and workshop for timing equipment, spare parts and small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.	-	I		F						G	P	
Timing & Scoring Bulk Store	300	1	300	-	Storage area for large crates and containers used for scoreboards and bulk equipment. Must be accessible to OVR provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of Timing & Scoring equipment deployed to venue. May be combined with Timing & Scoring Workshop if location & size of space meet requirements for venue.		I		F					G	P	
Audio Visual Bulk Store	30	1	30	-	Storage area for large crates and containers used for video boards, PA equipment and TV boxes. Must be accessible to Video/Public address provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of audio/video equipment deployed to venue.				F					G	P	

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Technology General Infrastructure																		
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required to distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closet. CCFs are to be installed in locations that allow for easy access for service technicians and easy cable access from TER room and to user device locations.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Work Room.	High Security - lockable & weatherproof. May require fan or dedicated A/C depending upon room location and / or configuration. Fully redundant power (mains & generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.		I		F						P
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of Power from Data/Voice and Audio Visual Cabling	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in a manner which allows for easy access and repair/replacement. Legacy installations are to be installed as permanent while temporary (overlay) should be installed using methods which are easily installed & removed minimising potential damage to existing venue.				F						P
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.	-	-	"										
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.	-	-	"										
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.	-	-	"										
CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	"										
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	"										
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-										
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-										
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-										
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-										
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-										
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.		I		F						P
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.										
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.										

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Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to Video Control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.		I		F						P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the videoboard. Required for outdoor venues where the videoboard cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cablings) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each videoboard.											
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Production on a sport specific basis.	Adequate power, cable pathways to/from boards to Video Control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.		I		F					G	P	
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to/from audio/PA amplification system and/or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cablings) required to suspend PA speakers from venue ceiling structure.	-	-	-											
Mobile Phone Infrastructure (antenna)	-	Varies	-	-	Infrastructure required to support installation of additional radio antenna and mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to / from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.		I		F					G	P	
Ticketing																			
Ticket Box Office	30	1	30	75	An area at the venue where Olympic tickets are sold.	Adjacent to the secure perimeter; near the spectator entry point of the venue	Gross area includes internal & external queue.	Assumes container unit with accessible access to internal and external service window. Dependent upon spectator capacity, venue layout and footprint and spectator access point locations.				F						P	
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	10	1	10	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	8 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s)	10	1	10	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	8 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	18	1	18	36	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.				F						P	
Driver Staging	55	1	55	100	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls. Assumes temporary units. Accessible toilet facilities should be provided.				F						P	
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside Venue Secure Perimeter.	-											
Storage Yard	-	1	-	12	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-				F						P	
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from each Host City, based on vehicle / bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J							P	
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J							P	
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F						P	
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.				F						G	IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.				F						G	IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.	I		F							G	IOC
Spectator and Staff Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				F						P	
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.	I		F							P	
Accessible	-	-	-	-	-	-	-	Part of Spectator total.				F						P	

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Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Surface areas paved or gravel.	Venue layout will determine amount of parking available at the venue.										
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have a drop-off in close proximity to accredited entry point and then driver will park.			I	F					P	
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.				F		I			P	
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.				F		I			P	
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-			J	J					P	
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes circulation.				F		I			P	
Emergency Services	-	-	-	50 (each)	-	Generally located inside the Secure Venue Perimeter.	-	Includes circulation.				F		I			P	
Venue Development																		
Site Management Compound	348	1	348	520	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Dependent upon venue footprint, extent of temporary works, and number of contractors.				F					P	
Site Management Area	45	1	45	-	-	-	Enclosed space.	-										
Site Manager & Assistant Site Manager(s) Work Area	12	1	12	-	-	Work and meeting area for the Site Manager and Assistant Site Manager.	-	-										
Site Administration Desk & Work Area	12	1	12	-	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-										
Response Team & Vendor Staging	18	1	18	-	-	On-site permanent and temporary facilities for specialty staff and general labor crew to be on-call.	-	-										
Secure Storage - Site Management	9	1	9	-	-	Area for storage.	-	-										
Construction Management Area	30	1	30	-	-	Meeting space for the facilities construction management team and work crew.	Enclosed space. Area for office, staging and a secure storage area.	Assumes container units or existing space. Contractor usually installs container units at their own cost.										
Sign/Look Staging, Work Space/Secure Storage	35	1	35	-	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	Assumes container unit or existing space.										
Material Warehouse/Construction Work Space	55	1	55	-	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	Enclosed space.	Assumes tent or canopy with 2 side walls. Area for carpentry, painting and general construction. Storage for non-weather proof materials.										
Vendor Secure Storage	30	1	30	-	-	Area for containers, usually provided by the various temporary construction sub-contractors.	Enclosed space.	Assumes container units or existing space.										
Materials Staging Area	30	1	30	-	-	Area for the off-loading and loading of bulk construction materials.	Area only.	-										
Exterior Storage Area	30	1	30	-	-	Outdoor storage of material and products.	Area only.	Weatherproof area for large and bulk materials.										
Vehicle Staging	60	1	60	-	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	Area only.	Service, Repair & Specialty vehicles										
Toilets	1.5	2	3	-	-	Toilets units designated or shared with other compound personnel.	Located in BOH compound areas.	Assumes temporary units. Accessible toilet facilities should be provided.										
Power Bulk Store	15	1	15	18	-	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	May be combined with Power Workshop if location & size of space meet requirements for venue.			I	F					P	
Power Workshop & Store	9	1	9	12	-	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	-			I	F					P	
Power Generators Location	Varies	4	Varies	-	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.										
Venue	Varies	2	Varies	-	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	Generators also provide primary source of power to one half of the FOP lighting.										
Broadcast Compound	Varies	2	Varies	-	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-										

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Venue Management																		
Venue Operations Centre (VOC)	75	1	75	115	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Venue capacity and venue layout.					F					P
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant's Manager.	-	-	-										
Assigned Desks	20	1	20	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.										
Hot Desks	15	1	15	-	Shared work stations.	-	-	-										
Work Space and Storage	24	1	24	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.										
Venue Communication Centre (VCC)	50	1	50	60	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.					F					P
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-										
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-										
Communication Operators (VCC Operators)	30	1	30	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	-										
Storage	8	1	-	-	Equipment storage area.	-	-	-										
Multi-purpose Room (MPR)	200	1	200	240	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre	Enclosed space.	Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.										P
Workforce																		
Workforce Area	180	1	180	220	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.					F					P
Check-In Area	115	1	115	-	Area to log-in venue staff and contractors by day or shift.	-	Check-in desks.	-										
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-										
Information Desk, Lost & Found & Work Area	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-										
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-										
Workforce Break & Dining Area	500	1	500	600	The space where workforce meals are served and where workforce can break during their shift.	A location that will provide easy access to all workforce for breaks and meals; will vary according to venue layout/size.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon workforce numbers..					F					P
END OF DOCUMENT																		

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Accreditation																							
Venue Accreditation Office	60	1	60	150	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space. Enclosed space. May be required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.											P	-			
Day Pass Issue & Problem Resolution Desk	18	1	18	-																			
Work Area	18	1	18	-																			
Manager Desk or Office & Storage	12	1	12	-																			
Waiting Area	12	1	12	-																			
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	-	-	Located in temporary structure. Assumes container/trailer unit or tent.										P	-				
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.															
Broadcast																							
Broadcast Compound	-	1	-	10 000	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements.	-											R	IOC			
Broadcast Management Office	70	1	70	175	Space for the broadcast management and administrative team.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.	Assumes container unit.											G	IOC			
Broadcast Manager Office	12	1	12	-		-	-	-	-														
Work Room, Assigned & Unassigned Desks	58	1	58	-		-	-	-	-														
Technical Operations Centre	60	1	60	150	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.	Assumes container unit.											R	IOC			
Broadcast Catering	175	1	175	220	Dining and break area for broadcast personnel.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.	-															
Kitchen & Prep	25	1	25	-		-	-	Assumes container unit.	Assumes container unit.														
Buffet Line & Dining	150	1	150	-		-	-	Assumes container unit or tent.	Assumes container unit or tent.														
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements.	-															
Work Area(s)	20	Varies	Varies	-	-	Enclosed space.	Assumes container units.	Assumes container units.															
Mobile Unit(s)	65	Varies	Varies	-	-	-	-	-															
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters.															
Work Area(s)	20	Varies	Varies	-	-	Enclosed space.	Assumes container units.	Assumes container units.															
Mobile Unit(s)	65	Varies	Varies	-	-	-	-	-															
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	-	Quantity will vary according to the power requirements for Broadcast at venue.	-															
Toilets	1.5	12	18	54	Toilet units designated for broadcast personnel.	-	Assumes temporary units. Accessible toilet facilities should be provided.	Assumes temporary units. Accessible toilet facilities should be provided.															
Commentator Control Room	150	1	150	165	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Enclosed space with incoming television cable.	Assumes existing space or container.	Assumes existing space or container.											R	IOC			
Broadcast Information Office (BIO)	25	1	25	30	Space for broadcast management and team meetings.	Enclosed space.	Assumes existing space or container.	Assumes existing space or container.											R	IOC			
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-											G	IOC			
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	Additional lighting may be required for indoor venues.	J	I	J								R	IOC			
Mixed Zone	80	1	80	300	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	-	I	I	J								R	IOC, IF			

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOC	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent broadcast agencies.	Located in seating areas with view to FOP and covered when possible.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Outdoor commentator positions should have the option of cover for protection from various weather conditions (e.g. sun, rain). Space for commentator positions may vary according to actual venue/permanent seating setup.			I	J			J	I		R	IOC
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent broadcast agencies which includes space for a camera position.	Located at the rear of the commentator grouping so as not to disrupt the FOP view of other commentator positions.	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	A com-cam position equals 2 adjacent commentator positions.			I	J			J	I			
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions	1 position = uses 1 seat in existing seating bowls.	-			I	J			J	I		R	IOC
Camera Position - Field of Play	4	Varies	Varies	9 (each)	An area for designated tabled positions for independent rights holding broadcasters.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval. Space for camera positions may vary according to actual venue/permanent seating setup.	J		I	J			J	J		R	IOC
Camera Position - Other	4	130	520	1170	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	Space for camera positions may vary according to actual venue/permanent seating setup.	I		I	J			J	I		R	IOC
Radio Frequency (RF) Broadcast Tower	4	1	4	9	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-	May be located on roof of existing or temporary structures.							J	I		J	IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	-							J	I		J	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in BOH areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.							J	I		J	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography, in conjunction with OBS and IFs.	J						J	I		R	IOC
Catering																			
Catering Compound	758	1	758	1100	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity.			I	F						P	
Work Areas - Catering Management	32	1	32	-		Generally, located in Catering Compound or possible the VOC.	Enclosed space.	Assumes existing space or container.											
Organising Committee Catering Manager	-	-	-	-			See Venue Management - VOC.	-											
Catering Contractor	20	1	20	-			-	-											
Beverage Contractor	12	1	12	-	Operational work space(s).		-	-											
Dry, Cold & Ice Storage	38	4	152	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.											
Vehicle Staging	50	1	50	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-											
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-											
Kitchen & Preparation Area	54	1	54	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.											
Uncovered Storage	50	1	50	-	Outdoor storage of material and products.	-	Area only.	-											
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilets should be provided.											
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	-											
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container(s). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity, level of catering activity.			I	F						P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	-											
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	-											
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue catering facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-			I	F						P	

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Ceremonies																			
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-			I	F							P
Ceremonies Staging	50	1	50	60	For the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule; to coordinate location of podium, procession, and recession route, and location of flagpoles.	Adjacent to or close to FOP.	Consists of coordinator work space with area for secure storage, preparation and dressing area. See below for additional details.	Assumes existing space or container.			I	F							P
Manager Desk	6	1	6	-	Work space for Manager.	-	-	-											
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.											
Presenters, Medal/Flower staging, Secure medal and flag storage	36	1	36	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.											
Presenter Preparation & Dressing	4	2	8	-	A dressing and preparation area for Presenters.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.												
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	-	Limited use, may be shared with other space. See Sport Presentation.	-											
Awards Podium Storage	25	1	25	30	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	Adjacent to FOP			I	F							P
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.	I	J	J				J	G	R	IOC	
Cleaning and Waste																			
Cleaning & Waste Compound	339	1	339	460	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependent upon venue capacity.					F						P
Vehicle Staging	90	1	90	-	Parking area for collection vehicles which generally remain inside the venue.	-	Area only.	-											
Sorting Area	90	1	90	-	Area for sorting waste.	-	Area only.	-											
Waste & Recycle Containers	15	6	90	-		-	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).											
Compactor Unit	25	Varies	Varies	-	Area in front of waste and recycle bins where material is separated for containment.	-	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.											
Equipment Supply & Storage	15	3	45	-	Space for cleaning equipment and paper product.	-	Enclosed space.	Assumes container unit.											
Contractor Office	24	1	24	-	Space for management and workforce staging.	-	Enclosed space.	-											
Doping Control																			
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	-	J	J	J							R	IOC
Waiting Area/Reception	36	1	36	40	Area where athletes check-in and wait prior to testing.	-	-	-											
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).											
Blood Processing Room(s)	15	Varies	Varies	20 (each)	Area where athlete blood samples are provided and sealed	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).											
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer. Wash basin for hand sanitisation.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).											
Office / Storage	12	1	12	15	Work and storage space for Doping Manager.	-	Enclosed space. Secure storage.	-											
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-	I	J	J							R	IOC

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.					F					P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of staff pre and post shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large group.	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.				F						P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.				F						P	
Information Desk	-	-	-	-	-	-	-	-											
Lost & Found	-	-	-	-	A holding area for items found in the venue.	-	-	-											
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spectators.	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	Adjacent to Public Information.	-	-				F						P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes 12m away from covered search area.	Total number generally 50% of security screening positions.				F						P	
Stroller Storage	72	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	-	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.				F						P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.				F						P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators				F						P	
Spectator Shade & Shelter	1	Varies	Varies	-	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and event services areas.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.				F						P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-				F						P	
Spectator Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators.	-	-	Assumes temporary units; accessible toilets generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number required subject to event duration, alcohol sales, competition schedule and spectator capacity.				F						P	
Hand Wash Stations	1	Varies	Varies	6 (per 20 toilets)	A chemical unit used in the absence of potable water.	-	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.				F						P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOC	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Finance																				
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I		F						P		
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Generally located inside venue perimeter and outside venue perimeter.	Area only.	Quantity dependent upon venue capacity.		I		F						P		
Language Services																				
Work Area / Desk	28	1	28	35	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre.	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-			J	J						G	IOC	
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference needs.	-			J	J						G	IOC	
Logistics																				
Logistics Compound	-	1	Varies	800	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access. Secondary Compound Area - an additional compound area may be necessary for staging or storage of equipment that is in close proximity to FOP and/or the finish area.										P		
Logistics Centre	75	1	75	-	-	-	Enclosed space.	Assumes container units or tent.												
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-												
Team Staging/Work Area	40	1	40	-	Space for staging and a work area.	-	-	-												
Secure Storage & Equipment Sign-out	20	1	20	-	Area for storage.	-	Storage for tools.	-												
Warehouse Storage	115	1	115	-	Storage area for furniture, fixtures, and equipment (FF&E).	-	Enclosed space.	Assumes tent												
Storage Yard	100	1	100	-	Outside storage area within compound.	-	Area only.	-												
Vehicle Staging	125	1	125	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-												
Fuel Tank(s)	9	Varies	Varies	25 (each)	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.												
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.												
Material Transfer Area (MTA)	-	1	-	750	An area where packages or other items are delivered when they arrive outside the venue delivery schedule times.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.										G	P	
X-Ray Area	54	1	54	100	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.												

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Look of the Games																			
Work Area and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.										P	
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J					J		R	IOC
National Olympic Committee (NOC) Flags	-	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.			J	J				J		R	IOC
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and back of locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J				J	G	R,P	IOC, IF
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals.	-											
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH).	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	-		I	J	J				J	G	R	IOC, L
Backdrop - Press Conference Room	2.2 x 6	1	2.2 x 6	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F		I	I				
Medical Services																			
Athlete Medical	76	1	76	125	An area where Medical provides services to athletes competing at the venue.	Located within the accredited Athlete Area.	Enclosed air-conditioned space. One main venue in the stadium but some medical facilities should also be available at the Warm-up.	Assumes container or existing space.	J	J	J					J		S	IF
Reception & Waiting	15	1	15	-	Area where athletes check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	4	32	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Physiotherapy Area(s)	8	2	16	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J					J		S	IF
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.											
Spectator Medical	65	1	65	120	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed air-conditioned space. 1 per 20,000 spectators	Assumes container unit or existing space.			I	F				I		P	
Reception & Waiting	15	1	15	-	Area where spectators check-in and wait prior to examination.	-	-	-											
Medical Desk & Secure Storage	15	1	15	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	4	32	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Triage Station	50	1	50	100	Additional space to treat minor medical needs of spectators.	-	Covered space. May be used to supplement spectator Medical Reception function.	Assumes canopy structure.			I	F				I		P	
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.										P	
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Paved, graveled or grass area with fence, barricade or rope enclosure.	-				F		I		I		P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Merchandise																				
Office, Cash Room & Work Area	12	1	12	15	An area to manage the retailing of all Olympic merchandise inside the venue.	-	Enclosed space with lockable entry.	Enclosed space with secure entry.				F						P		
Storage	15	3	15	45		-	-	Assumes storage containers or existing space.				F							P	
Program Sales Stands/Booths	1	1	1	2		-	Area only.	Units provided by vendor. Quantity and location decided by vendor and OCOG.				F							P	
Merchandise Points of Sale (POS)	6	Varies	Varies	18		Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.	Gross area is per each P.O.S. and includes service area and queue.	I			F						P	
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-		I	J	J					G	R	IOC	
Olympic Family Services																				
Olympic Family Lounge	319	1	319	700	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes tent.	I		I	F					I	G	G	IOC
Welcome Desk & Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-	-												
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.	-												
Staff/Volunteer Room & Storage	16	1	16	-	On-call waiting area for Protocol staff and equipment storage.	-	-	-												
Dining & Lounge	190	1	190	-	Area for dining and lounge.	-	-	-												
Preparation/Buffer set-up/Beverage Area	95	1	95	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Staff/Volunteer, Athlete, Media).	-												
Toilets	40	1	40	80	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	6 female, 6 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided.			I	F					I	G	G	IOC
Protocol flags	-	-	-	-	-	-	See Look of the Games.	-			J	J					J		R	IOC
Press Operations																				
Venue Media Centre (VMC)	1400	1	1400	1600	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Conference Room and Photo Positions.	Close proximity to Press Tribune, Press Conference room, and Mixed Zone area.	Enclosed space for 450 press and 75 photographers.	Assumes tent.				F						R	IOC	
Reception & Information Desk	30	1	30	-	Welcome desk at the entrance, for information distribution.	-	-	-												
Storage	9	1	9	-	Equipment storage.	-	-	-												
Press Manager Office	12	1	12	-	Operational work space.	-	-	-												
Photo Manager Office	12	1	12	-	Operational work space.	-	-	-												
Olympic News Service (ONS) Work Room or Area	45	1	45	-	Operational work space.	-	Enclosed space.	-												
Info Stations	72	1	72	-	Computer stations and printers.	-	-	-												
Press Work Room or Area	620	1	620	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.												
Photo Work Room or Area	130	1	130	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.	-												
Photographers Check-in & Photo Bib Distribution	18	1	18	-	Area where photographers register and receive/return photo bibs.	-	-	-												
Locker Area	1.5	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.												
Lounge/Catering Prep	260	1	260	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-	-												
Toilets	1.5	12	18	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided												

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Press Conference Room	240	1	240	400	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I			F						R	IOC
Seating Area	180	1	180	-	An area for accredited press.	-	Seats and standing room.	-											
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3.6 m table, 8 chairs & step and repeat backdrop.	-											
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-											
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-											
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-				F			I	I			
Mixed Zone	60 linear mtrs.	1	60 linear mtrs.	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I		I	F						R	IOC,IF
Press Tribune	-	-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	-	Tabled seating is fitted out with telephones, television monitors, power and other press facilities (indoor venues). For outdoor venues, these services will exist in VMC.	-											
Press Tabletop Seating	Varies	Varies	Varies	-	-	Easy access from Venue Media Centre and direct access if possible to Mixed Zone.	<u>In an existing stadium or seating area:</u> 1 seat wide (folding chairs at 60 cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50 cm deep tabletop per position, each position = 2 stadium seats. <u>Temporary Stands:</u> 1 seat (folding chairs at 60 cm spacing) x 2 rows deep of proposed seating system (normally 150 cm-170 cm deep).	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.			I	F					R	IOC,IF	
Press Seating (non-tabled)	Varies	Varies	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.			I	F						R	IOC,IF
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided											
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-											
Field of Play (FOP)	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	Mainly on infield, at jump pits, and end of 100m straight.	60 cm wide x 90 cm deep per position, multi-row areas require 60 cm riser per row.	Power, Wireless and data cabling needed to photo positions on FOP.	J		I	J						R	IOC, IF
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Normal seating areas.	-	Seating areas are generally not applicable for outdoor venues.	I		I	F						G	IOC
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

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Security																				
Security Command Centre	150	1	150	180	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.											P	
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-												
Security Work Area	15	1	15	-	An area for additional security agencies.	-	-	-												
CCTV Surveillance & Video Desk	18	1	18	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-												
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.												
Radio Dispatch & Monitoring	18	1	18	-	An area for the monitoring and control of security communication and the distribution/return of radios.	-	-	-												
Work Room	60	1	60	-	Open plan of work stations designated for security personnel.	-	-	-												
Secure Storage	12	1	12	-	An area for Security equipment storage.	-	-	-												
Dog Cage(s)	4	Varies	Varies	8 (each)	Holding area for security dogs.	-	Area only for enclosed portable units (e.g. cages)	Dependent on Host City / Country / Risk Assessment												F
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-					J	J						P
Briefing and Break Area / Staging Area	220	1	220	250	Area for briefing staff before and after shifts.	-	Enclosed space.	Assumes tent.												
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.					J	J						P
Vehicle Screening & Sanitisation Area	880	1	880	1100	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.												P
Vehicle Queue	300	1	300	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-												
Oversized Vehicle Queue	210	1	210	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-												
Vehicle Sanitisation & Wanding Areas	250	1	250	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.												
Oversized Vehicle (Truck & Bus) Sanitization	70	1	70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-												
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.												
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Staging and break area enclosed space.	-												
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the Venue Secure Perimeter and/or venue screening area for constituents.	-	-												
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-												P
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-	I				F							P
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-					F		I					P
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.					F							P

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Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the Venue Secure Perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	-				F					G	P	
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the Venue Secure Perimeter.	Net area for each screening position will accommodate: 4 Wanding Stations, OR - 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue.											
Athlete / Team	18	1-2	18-36	36-72	-	-	Screening and search area is covered.	-	I		F							P	
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	-	-	Entrance can be combined with Athlete and/or Olympic Family.	I		F							P	
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	-	-	Entrance can be combined with TO, ENG and/or Press.	I	I	F							P	
Broadcast	18	1-2	18-36	45-90	-	-	Screening and search area is covered. Direct access from outside venue perimeter into Broadcast Compound.	Search area is covered. Direct access from outside venue perimeter into Broadcast Compound.			F			I				R	IOC
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	-	-	-											
Press and Photographer	18	1-2	18-36	36-72	-	Located in close proximity if possible to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays. Entry should be exclusive to Media (Press and Broadcast) preferably leading directly into Press areas.	-			F							R	IOC
Staff, Volunteer, Contractor & Vendor	18	2-3	36-54	90-135	-	-	-	-			F							G	IOC
Spectator / Sponsors	18	Varies	Varies	54	-	-	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-			F							P	
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.											
Exception Gate	-	-	-	-	Access gate for designated accredited personnel.	Located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.											
X-ray of bags	54	Varies	Varies	100 (each)	Device for screening bags/equipment coming into the venue.	-	-	-			I	F					G	P	
Venue Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	-			F	I						P	
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	Located at each security screening area, 1m to 3m width, sometimes used as a secondary service vehicle exit point.	-											
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m in width, number varies per concourse design.	-											
Staff, Volunteer, Contractor & Vendor	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	-											
Sponsor Services																			
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.			I	F						P	

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Sport Operations																			
Competition Management	75	1	75	85	A work area for Sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located close to Athlete Area and FOP; may be co-located within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space.	I									P	
Competition Manager & Asst. Mngr. Desks	12	1	12	-	An area for the Manager and Assistant(s) Manager.	-	-	-											
Assigned Work Area	24	1	24	-	Open plan of work stations designated for Sport personnel.	-	-	-											
Hot Desks	15	1	15	-	Shared work stations.	-	-	-											
Work Area	24	1	24	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-											
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	A common meeting room is required; except for the Athletics Technical Meeting which requires seating for 600 persons with simultaneous translation of at least English, French, Spanish, Arabic, German and Russian.											
Technical Information Centre (Sports Info)	80	1	80	95	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located in Athlete Area.	Enclosed space with waiting area and seating.	Technical Information Centre (TIC) needs to accommodate 5-8 personnel and must be easily accessible to team seating area and Mixed Zone. Requires 240 pigeon holes for start lists, results and official communications and space for a photocopier.	J		J							R	IF
Athlete Lounge	300	1	300	350	An area where athletes can relax at the venue while not training or competing.	Located in Athlete Area.	-	Includes: seating area, lounge, Info & Help Desk, info terminal stations.	J		J							R	IF
Athlete Dressing, Locker, Shower, Toilet	100	4	400	500	Change-room facilities to accommodate athletes at the venue during competition and training.	Located in Athlete Area.	Enclosed space. Separate male and female facilities.	Assumes container units or existing space. Of minor importance at competition venue as athletes will generally return to the Village for showers, etc.	J		J							R	IF
IF & Sport Meeting Room	30	1	30	45	Meeting facility at the venue for the International Federation and Competition Management.	Located in close proximity to the IF Area and Competition Management area.	Enclosed space.	Shared meeting room area between IF & Sport to serve various meeting needs.	J		J							G	IF
FOP Equipment Storage	50	1	50	60	Storage of equipment required for competition.	Located adjacent to FOP or within close proximity.	Storage rooms are necessary for the FOP equipment (hurdles, landing areas, Field Events Scoreboards)	Pending whether athletes can store equipment in the Olympic Village. Assumes container units or existing space.	J		J	I						R	IF
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	Reference should be made to IAAF guidelines for all FOP technical requirements.	-											
Playing Surface Dimensions or Area	-	-	-	-	-	-	400m 8-lane track (9 lanes are preferred) with at least: 2 areas for field events in the same direction (except hammer and discus). Layout to be agreed by the Technical Delegates.	Total area required may be greater than playing surface dimension.	F		I							R	IF
Surface	-	-	-	-	-	-	Synthetic surface shall be certified and the track must meet IAAF requirements for Class 1 certification.	-	J		J	I						R	IF
Orientation	-	-	-	-	-	-	The orientation of the FOP should take into account the position of the sun so that it has least detrimental impact on the athletes - particularly those involved in throwing & jumping events. Also the prevailing wind direction may need to be considered.	-	J		J	I						R	IF
Call Room	150	2	300	400	-	Located near the entry to track in main stadium; also located beside the Warm-up track.	IAAF refers to this area as the Call Room - there are generally two of these, one at Warm-up and second at main stadium.	There may be a requirement for magnetometer positions.											
Sports Lighting - Technical	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	-	-	-											
Warm-up Surface Dimensions or Area	-	-	-	-	Adjacent to Main Stadium. The Warm-up venue should be located as close as possible to the competition venue. If possible, a dedicated tunnel should be provided to link the two venues.	-	Same as competition venue requirements.	In addition to the Warm-up venue, a Warm-up area should be provided in the competition venue to allow athletes to exercise immediately prior to their competition: 6 lanes 80 metres in length, made of synthetic material. Total area required may be greater than playing surface dimension.	J			J			I	J		R	IF
Surface	-	-	-	-	-	-	The Warm-up track should be surfaced in the same synthetic material as the competition venue.	-	J			J	I			J		R	IF
Orientation	-	-	-	-	Orientation of FOP area.	-	The orientation of the Warm-up venue should be identical to that of the competition venue.	For the Paralympic Games it is essential that the radius of the curves on the Warm-up track be identical to those of the competition venue.	I			F	I					R	IF
Coaches Seating Area	-	12 per field event site	-	-	Reserved seats for coaches of athletes competing in field events close to the event site.	Located in seating area in secure location with view to the FOP. Adjacent to field event sites.	Seating area.	Seating requirements should be managed session by session.											
Athlete / Team Seating	-	-	-	-	A designated seating area for athletes.	-	-	-	J	I	J					J			
Same Sport	-	Varies	-	-	-	-	-	-	J	I	J					I		R	IOC,IF
Different Sport	-	Varies	-	-	-	-	-	-	I	I	F					I		R	IOC
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	May be required for Sport Staff use. Quantity varies according to athlete numbers.				F							P
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	Required if FOP is not located near Athlete Area.	Assumes temporary units. Quantity varies according to athlete numbers.				F							P
International Federation																			
IF Area	70	1	70	80	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located in close proximity to accredited seating areas.	Enclosed space.	Assumes container units or existing space.	I		I	F						R	IF
IF President's Office	15	1	15	-	-	Located with a view of the infield / FOP.	-	-	I		I	F						R	IF
IF Secretary - General/Executive Director's Office	15	1	15	-	-	Located with a view of the infield / FOP.	-	-	I		F							G	IF
Reception, Secretariat, Waiting & Work Area	40	1	40	-	-	Adjacent to President & Secretary General Offices.	-	-	I		F							G	IF
Jury & Appeals Room	20	1	20	25	Area for reviewing videos and other material.	This should be located near to the TIC (Technical Information Centre).	Enclosed space. Seating for 10 people.	Assumes container units or existing space.	I		F							R	IF
ITOs Lounge	25	1	25	32	A rest area for officials.	-	Enclosed space.	Assumes container units or existing space.	J		J							G	IF
NTOs Lounge	90	1	90	150	A rest area for officials.	-	Enclosed space.	Assumes container units or existing space.	J		J							G	IF
International Officials Locker Room	35	2	70	85	A change area for officials.	-	Shower and toilet facilities.	Assumes container units or existing space.	I		F							R	IF
Technical Delegates Office & Work Area	15	1	15	20	Office area for Technical Delegates.	This office should also be adjacent to the IAAF Competitions Office and the OCOG Competition Management Area.	Enclosed space. 2 Technical Delegates.	-	I		I	F				I		R	IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I	J	J					J		R	IOC,IF

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Sport Presentation																			
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.											
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-				F						P	
Announcer Position	3	1	3	-	-	-	-	-				F						P	
Sport Entertainment Room																			
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space. Staff Work, Green Room, Entertainer Staging and Dressing and Prop Storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.											
Technology Operations																			
Technology Help Desk																			
Technology Help Desk	30	1	30	-	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support staff & manager.	-				F						P	
Venue Technology Operations (VTO)																			
Venue Technology Operations (VTO)	100	1	100	-	OCOG Technology Operations area. Operational work space for entire Venue Technology team, including Partners & contractors.	Adjacent to or within Venue Operations Centre (VOC).	Medium security - lockable room. Air-conditioned as office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	-				F					G	P	
OCOG Venue Technology Work Area	-	1	-	-	Work space for Venue Technology Manager, Assistant Venue Technology Manager, Technology Staffing Manager and associated volunteer(s).	-	-	Work space size may be dependent upon workforce per shift.											
AV Contractor Work Area	-	1	-	-	Work space for AV contractors/Technicians.	-	-	Work space size may be dependent upon workforce per shift.											
IT Provider Work Area	-	1	-	-	Work space for IT staff and "home base" for IT volunteers.	-	-	Work space size may be dependent upon workforce per shift.											
Reprographic Provider Work Area	-	1	-	-	Work space for reprographic contractors/technicians	-	-	Work space size may be dependent upon workforce per shift.											
Mobile Phone Provider Work Area	-	1	-	-	Workspace for mobile phone provider.	-	-	Work space size may be dependent upon workforce per shift. Charging area for Venue Operations workforce phones may be required.											
Wired Communications Provider Work Area	-	1	-	-	Work space for Wired Communications contractors/technicians.	-	-	Work space size may be dependent upon workforce per shift.											
Timing & Scoring/OVR Provider Work Area	-	1	-	-	Work space for OVR/Timing and Scoring contractors/technicians.	-	-	May not be required if adequate working space is allocated in OVR room.											
Radio Distribution Room (RDR)																			
Radio Distribution Room (RDR)	15	1	15	-	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E & workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).		I		F						P	
Information Technology																			
Computer Equipment Room (CER)																			
Computer Equipment Room (CER)	25	1	25	-	Area for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.		I		F					G	P	
Data Local Area Network (LAN) Management Room & Store																			
Data Local Area Network (LAN) Management Room & Store	25	1	25	-	LAN monitoring room and associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational staff & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces.				F					G	P	

Space <small>Sub-space(s)</small>	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Telecommunication & Audio Visual																			
Telecomm. Equipment Room (TER) Primary	75	1	75	-	Includes telecommunications equipment (PABX, structured cabling racks for data and voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	Raised flooring is preferable for cabling distribution, but not essential.	I			F						P	
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.	I			F						P	
Telecomm. Operations & Store	40	1	40	-	Operational space for Telecommunications technical staff and associated storage for spare parts.	Adjacent to TER.	As TER with adequate FF&E to support operational staff & storage.	If located adjacent to TER, power supply boards, UPS units & A/C services can be common for both spaces. Size based on increased requirement for storage and technicians to service AT Stadium.	I			F						P	
Audio Control Positions	-	-	-	-	-	-	-	-				F					G	P	
Venue	4	1	4	-	Area within Sport Production, location for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Production. Can be on FOP, in stands or in a booth with view to FOP.	High Security. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	Storage for country anthems.											
Press Conference	4	1	4	-	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), air-conditioned, waterproof. Work space & FF&E for operator.	PA system may also be used for Competition Draw if draw is held in Press Conference room.											
Warm-Up Area	4	2	8	-	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Within Warm-up/call room areas for Athletes.	Standard/mains power & FF&E.	-											
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-											
Workforce Break/Briefing	2	Varies	Varies	-	Area within Staff Break/Training room where audio control equipment is installed to facilitate meetings/training of large numbers of staff.	Workforce break/dining areas.	Standard/mains power & FF&E.	-											
Video Board Control	4	1	4	-	Area of video control for video board or video projection system. Operations integral with those of Sport Production.	Ideally with Sport Production. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	Requirement based on deployment of Videoboard to ATH (mobile board).				F					G	P	
Wired Communications Control	2	1	2	-	Area of wired communications master control station and support technician. System essential to operations of both Sport Production and Results/FOP management.	Near to or within Sport Production is preferable. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location if located outdoors. Good cable access to FOP, OVR Room, Sport Production, Broadcast Graphics Room & Results Printing required. Workspace & FF&E for one technician, control equipment, spare parts and containers/boxes for equipment.	-				F					G	P	
Temporary PA equipment Room	2 min	1	2 min	-	Temporary location for installation of PA active equipment (amplifiers etc) for venue PA system.	In existing PA equipment room, if applicable. May be located under venue seating/tribunes if existing room not available.	High Security. Fully redundant power (mains & standby generator) to equipment. Good cable access to speaker location and PA/Audio Control position required. Equipment installed in racks. Each rack set is 1000H x 600W x 600 D maximum.	Number of racks will depend on size of system deployed. Generally venues with large geographic area (outdoor) require larger installation and therefore more racks of amplifier equipment.					F					P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Timing, Scoring, & Results Operations																			
Results Data Entry Position	-	-	-	-	Area(s) for event results and/or statistics data entry during competition.	As noted below.	High Security. Fully redundant power (mains & generator) with UPS to all results data entry equipment/workstations. Space & FF&E for all data entry personnel & results management staff.	Where data entry occurs outdoors, adequate weather (rain/sun) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
Field of Play	6	6	36	-	Areas/positions for results and/or statistics on the FOP.	Located adjacent to Timing & Scoring, as defined by sport FOP layout to support all disciplines of AT.	Areas/positions for results data entry around the AT Stadium FOP. 6 x positions maximum operational at any time. Positions must be flexible to allow for movement of personnel and equipment to facilitate competition.	May occur as a position on the FOP, or in a room with a view to the FOP.											
Back of House - Call Room 1					Area for OVR provider to perform data entry to Warm up Scoreboard.	Area within Warm-up Facility outside Main Stadium.	-	-											
Back of House - Call Room 2	-	-	-	-	Area for OVR provider to perform data entry to Call Room Information/Scoreboard.	Area within Call Room inside Main Stadium.	-	Generally occurs Back of House, in sport location.											
Timing and Scoring Position					Area(s) for event timing & scoring personnel & equipment during competition.	Sport Specific. However, all locations must have view to FOP	High Security. Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards & OVR room. Space & FF&E for operators and equipment.	Adequate weather (rain/sun) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
Field of Play (FOP)	6	6	36	-	Located adjacent to Results Data Entry, as defined by sport FOP layout to support all disciplines of AT.		Areas/positions for results data entry around the AT Stadium FOP. 6 x positions maximum operational at any time. Positions must be flexible to allow for movement of personnel and equipment to facilitate competition.	-											
Control Room	30	1	30	-															
On Venue Results (OVR)	70	1	70	-	Area is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	Easy access to FOP critical for technical and results staff.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Space & FF&E required for high density of computer workstations, racks for servers and working space for technicians, operators and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or venues where two sports occur concurrently will require more space for additional OVR equipment.	I	F								P	
OVR Provider Work Area	30	1	30	-	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO/CIS/PRD etc).	Ideally adjacent to IT provider work area.													
IT Provider Work Area	15	1	15	-	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.													
Scoreboard Control	4	1	4	-	Area of scoreboard control operations. Operations integral with those of Sport Production, data provided from OVR System. Space for both Control and Interface workstations and 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.	I		F						G	P	
Scoreboard Control	2	1	2	-	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator and workstation control PCs.	Adjacent/co-located with Scoreboard Interface.													
Scoreboard Interface	2	1	2	-	Area for interface equipment (PC workstations) linking OVR system and Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.													
Results Printing (PRD)	250	1	250	-	Area for hard copy results production and distribution. Location of high intensity work involving many staff preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area and position for the Print Distribution Workstation (IDS interface) equipment and operator.	Near/adjacent to Press Workroom, access to Press Tribunes, Broadcast Commentary Positions, Sport Information Desk, Doping & Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specification. Space & FF&E required for equipment and operational staff as well as space for 1 x pallet of paper to support print/copy operations.	Room size is completely dependent on quantity of equipment (results printers and copiers) deployed & staff required per shift to manage results operations. For AT due to the quantity of devices & personnel required, usually Results Printing is divided into 2 separate areas/rooms one for Results Print Operations and a second room for Runners Waiting.	I	I	I	F						R	IF, Swatch

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOC	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Results Print Work Area(s)	215	Varies																	
Runners Waiting Area	35	Varies				Adjacent to Results Print Work Room(s).	Location dedicated for runners & print operators separate from the Results Work Room.	Area to have adequate seating for runners and operators and space for pallets of paper.											
TV Graphics Interface	3	1	3	-	Area where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operators & good cable access to OVR room.	-				I		F			G	P	
Technology Storage																			
Technology General Storage	30	1	30	-	Area for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.					F				G	P	
IT Bulk Storage	60	1	60	-	Storage area for all spare IT equipment & associated boxes/containers.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to IT provider at all times.					F				G	P	
Reprographic Primary Storage Area	12	1	12	-	Primary storage/technical area in-venue for reprographic provider. Storage for spare parts, additional devices and consumables serving primarily Results Printing Operations.	In venue location adjacent to, or within Results Printing Room.	High Security - lockable. Standard office environment with standard power. Workspace & FF&E for one technician.	-	I			F					G	P	
Reprographic Bulk Storage Area	60	1	60	-	Storage area for bulk paper allocated to venue (multiple pallets).	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of paper required to support venue operations.					F				G	P	
Timing and Scoring Workshop	10	1	10	-	In venue storage and workshop for timing equipment, spare parts and small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.	-	I			F					G	P	
Timing & Scoring Bulk Store	300	1	300	-	Storage area for large crates and containers used for scoreboards and bulk equipment. Must be accessible to OVR provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of Timing & Scoring equipment deployed to venue. May be combined with Timing & Scoring Workshop if location & size of space meet requirements for venue.	I			F					G	P	
Audio Visual Bulk Store	30	1	30	-	Storage area for large crates and containers used for video boards, PA equipment and TV boxes. Must be accessible to Video/Public address provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of audio/video equipment deployed to venue.					F				G	P	
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required to distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closet. CCFs are to be installed in locations that allow for easy access for service technicians and easy cable access from TER room and to user device locations.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Work Room.	High Security - lockable & weatherproof. May require fan or dedicated A/C depending upon room location and / or configuration. Fully redundant power (mains & generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.	I			F						P	
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of Power from Data/Voice and Audio Visual Cabling	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in a manner which allows for easy access and repair/replacement. Legacy installations are to be installed as permanent while temporary (overlay) should be installed using methods which are easily installed & removed minimising potential damage to existing venue.					F					P	
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.	-	-	"											
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.	-	-	"											
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.	-	-	"											

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	"											
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	"											
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-											
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-											
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-											
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-											
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-											
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I		F							P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.											
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to Video Control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I		F							P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the videoboard. Required for outdoor venues where the videoboards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each videoboard.											
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Production on a sport specific basis.	Adequate power, cable pathways to/from boards to Video Control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I		F						G	P	
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to/from audio/PA amplification system and/or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend PA speakers from venue ceiling structure.	-	-	-											
Mobile Phone Infrastructure (antenna)	-	Varies	-	-	Infrastructure required to support installation of additional radio antenna and mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to / from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.	I		F						G	P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Ticketing																			
Ticket Box Office	50	1	50	125	An area at the venue where Olympic tickets are sold.	Adjacent to the secure perimeter; near the spectator entry point of the venue.	Gross area includes internal & external queue.	Assumes container unit with accessible access to internal and external service window. Dependent upon spectator capacity, venue layout and footprint and spectator access point locations.										P	
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-					F						
Internal Ticket Sales Window(s)	20	1	20	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	8 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s)	20	1	20	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	8 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	36	1	36	72	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.					F						P
Driver Staging	110	1	110	200	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.					F						P
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside Venue Secure Perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	30	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-					F						P
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from each Host City, based on vehicle / bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J							I	P
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J							I	P
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F							P
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.				F						I	G IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.				F							G IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.	I		F								G IOC
Spectator and Staff Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				F							P
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.	I		F								P
Accessible	-	-	-	-	-	-	-	Part of Spectator total.				F							P
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Surface areas paved or gravel.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have a drop-off in close proximity to accredited entry point and then driver will park.			I	F							P
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.				F							P
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.				F							P
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-			J	J							P
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes circulation.				F							P
Emergency Services	-	-	-	50 (each)	-	Generally located inside the Secure Venue Perimeter.	-	Includes circulation.				F							P

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Venue Development																			
Site Management Compound	693	1	693	900	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Dependent upon venue footprint, extent of temporary works, and number of contractors.										P	
Site Management Area	75	1	75	-			Enclosed space.												
Site Manager & Assistant Site Manager(s) Work Area	12	1	12	-	Work and meeting area for the Site Manager and Assistant Site Manager.														
Site Administration Desk & Work Area	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.														
Response Team & Vendor Staging	30	1	30	-	On-site permanent and temporary facilities for specialty staff and general labor crew to be on-call.														
Secure Storage - Site Management	15	1	15	-	Area for storage.														
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.		Enclosed space. Area for office, staging and a secure storage area.	Assumes container units or existing space. Contractor usually installs container units at their own cost.											
Sign/Look Staging, Work Space/Secure Storage	60	1	60	-	Area for holding, sorting, repairing of event signs, look materials and tools.			Assumes container unit or existing space.											
Material Warehouse/Construction Work Space	115	1	115	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.		Enclosed space.	Assumes tent or canopy with 2 side walls. Area for carpentry, painting and general construction. Storage for non-weather proof materials.											
Vendor Secure Storage	90	1	90	-	Area for containers, usually provided by the various temporary construction sub-contractors.		Enclosed space.	Assumes container units or existing space.											
Materials Staging Area	70	1	70	-	Area for the off-loading and loading of bulk construction materials.		Area only.												
Exterior Storage Area	70	1	70	-	Outdoor storage of material and products.		Area only.	Weatherproof area for large and bulk materials.											
Vehicle Staging	150	1	150	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.		Area only.	Service, Repair & Specialty vehicles.											
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	Located in BOH compound areas.		Assumes temporary units. Accessible toilet facilities should be provided.											
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.		I		F						P	
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.			I		F						P	
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.										P	
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.		Generators also provide primary source of power to one half of the FOP lighting.											
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.													

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Venue Management																			
Venue Operations Centre (VOC)	75	1	75	115	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Venue capacity and venue layout.										P	
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-											
Assigned Desks	24	1	24	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	15	1	15	-	Shared work stations.	-	-	-											
Work Space and Storage	24	1	24	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	50	1	50	60	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.										P	
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	30	1	30	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	-											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	200	1	200	240	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre.	Enclosed space.	Assumes existing space or tent. Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.										P	
Workforce																			
Workforce Area	180	1	180	220	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.										P	
Check-In Area	115	1	115	-	Area to log-in venue staff and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Area	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	500	1	500	600	The space where workforce meals are served and where workforce can break during their shift.	A location that will provide easy access to all workforce for breaks and meals; will vary according to venue layout/size.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon workforce numbers..										P	
END OF DOCUMENT																			

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation				
Accreditation																							
Venue Accreditation Office	40	1	40	100	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space. Enclosed space. May be required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.											P	-			
Day Pass Issue & Problem Resolution Desk	10	1	10	-																			
Work Area	12	1	12	-																			
Manager Desk or Office & Storage	12	1	12	-																			
Waiting Area	6	1	6	-																			
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	-	-	Located in temporary structure. Assumes container/trailer unit or tent.											P	-			
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.															
Broadcast																							
Broadcast Compound	-	1	-	2500	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements. Located in temporary structure. Assumes container/trailer unit or tent.											R	IOC			
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.												G	IOC		
Broadcast Manager Office	12	1	12	-		-	-	-	-														
Work Room, Assigned & Unassigned Desks	48	1	48	-		-	-	-	-														
Technical Operations Centre	30	1	30	75	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.												R	IOC		
Broadcast Catering	105	1	105	122	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Kitchen & Prep	15	1	15	-		-	-	-	Assumes container unit.														
Buffet Line & Dining	90	1	90	-		-	-	-	Assumes container unit or tent.														
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements. Assumes container units.															
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	-															
Mobile Unit(s)	65	Varies	Varies	-	-	-	-	-															
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters. Assumes container units.															
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	-															
Mobile Unit(s)	65	Varies	Varies	-	-	-	-	-															
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.															
Toilets	1.5	4	6	18	Toilet units designated for broadcast personnel.	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.															
Commentator Control Room	50	1	50	65	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in close proximity to commentator position area.	Enclosed space with incoming television cable.	Assumes existing space or container.												R	IOC		
Broadcast Information Office (BIO)	12	1	12	15	Space for broadcast management and team meetings.	Located near commentator positions and CCR.	Enclosed space.	Assumes existing space or container.												R	IOC		
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-												G	IOC		
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J									R	IOC		
Mixed Zone	20 linear mtrs.	1	20 linear mtrs.	120	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Adjacent to the FOP.	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I	I	J									R	IOC, IF		
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in seating areas with view to FOP and covered when possible.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Outdoor commentator positions should have the option of cover for protection from various weather conditions (e.g. sun, rain). Space for commentator positions may vary according to actual venue/permanent seating setup.												R	IOC		
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	Located at the rear of the commentator grouping so as not to disrupt the FOP view of other commentator positions.	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	A com-cam position equals 2 adjacent commentator positions.															

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Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions	1 position = uses 1 seat in existing seating bowls.	-			I	J			J	I		R	IOC
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval. Space for camera positions may vary according to actual venue/permanent seating setup.	J		I	J			J	J		R	IOC
Camera Position - Other	4	15	60	135	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	Space for camera positions may vary according to actual venue/permanent seating setup.	I		I	J			J	I		R	IOC
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-				J	I		J			G	IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	-				J	I		J			G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in BOH areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.				J	I		J			G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography, in conjunction with OBS and IFs.	J			J	I		J	I		R	IOC
Catering																			
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-											
Catering Compound	394	1	394	600	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity.		I		F						P	
Work Areas - Catering Management	24	1	24	-		Generally, located in Catering Compound or possible the VOC.	Enclosed space.	Assumes existing space or container.											
Organising Committee Catering Manager	-	-	-	-			See Venue Management - VOC.	-											
Catering Contractor	12	1	12	-			-	-											
Beverage Contractor	12	1	12	-	Operational work space(s).		-	-											
Dry, Cold & Ice Storage	38	4	152	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.											
Vehicle Staging	50	1	50	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-											
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-											
Kitchen & Preparation Area	54	1	54	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.											
Uncovered Storage	50	1	50	-	Outdoor storage of material and products.	-	Area only.	-											
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	-											
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container(s). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity, level of catering activity.		I		F						P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	-											
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	-											
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue catering facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-	I		F							P	

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Ceremonies																			
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-			I	F						P	
Ceremonies Staging	50	1	50	60	For the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule; to coordinate location of podium, procession, and recession route, and location of flagpoles.	Adjacent to or close to FOP.	Consists of coordinator work space with area for secure storage, preparation and dressing area. See below for additional details.	Assumes existing space or container.			I	F						P	
Manager Desk	6	1	6	-	Work space for Manager.	-	-	-											
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.											
Presenters, Medal/Flower staging, Secure medal and flag storage	36	1	36	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.											
Presenter Preparation & Dressing	4	2	8	-	A dressing and preparation area for Presenters.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.												
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	-	Limited use, may be shared with other space. See Sport Presentation.	-											
Awards Podium Storage	25	1	25	30	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	Adjacent to FOP			I	F						P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.	I	J	J					J	G	R	IOC
Cleaning and Waste																			
Cleaning & Waste Compound	175	1	175	250	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependent upon venue capacity.					F					P	
Vehicle Staging	50	1	50	-	Parking area for collection vehicles which generally remain inside the venue.	-	Area only.	-											
Sorting Area	50	1	50	-	Area for sorting waste.	-	Area only.	-											
Waste & Recycle Containers	15	3	45	-		-	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).											
Compactor Unit	25	Varies	Varies	-	Area in front of waste and recycle bins where material is separated for containment.	-	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.											
Equipment Supply & Storage	15	1	15	-	Space for cleaning equipment and paper product.	-	Enclosed space.	Assumes container unit.											
Contractor Office	15	1	15	-	Space for management and workforce staging.	-	Enclosed space.	-											
Doping Control																			
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	An Office and storage area will be incorporated into the existing spaces (e.g. waiting area/reception).	J	J	J							R	IOC
Waiting Area/Reception	16	1	16	20	Area where athletes check-in and wait prior to testing.	-	-	-											
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).											
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer. Wash basin for hand sanitisation.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).											
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-	I	J	J							R	IOC

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.										P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of staff pre and post shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large group.	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.										P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.										P	
Information Desk	-	-	-	-	-	-	-	-											
Lost & Found	-	-	-	-	A holding area for items found in the venue.	-	-	-											
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spectators.	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	Adjacent to Public Information.	-	-										P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes 12m away from covered search area.	Total number generally 50% of security screening positions.										P	
Stroller Storage	72	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	-	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.										P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.										P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators										P	
Spectator Shade & Shelter	1	Varies	Varies	-	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and event services areas.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.										P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-										P	
Spectator Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators.	-	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.										P	
Hand Wash Stations	1	Varies	Varies	6 (per 20 toilets)	A chemical unit used in the absence of potable water.	-	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.										P	

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Finance																			
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I		F						P	
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Generally located inside venue perimeter and outside venue perimeter.	Area only.	Quantity dependent upon venue capacity.		I		F						P	
Language Services																			
Work Area / Desk	15	1	15	20	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre.	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-			J	J			I			G	IOC
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference needs.	-			J	J			I			G	IOC
Logistics																			
Logistics Compound	-	1	Varies	500	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access. Secondary Compound Area - an additional compound area may be necessary for staging or storage of equipment that is in close proximity to FOP and/or the finish area.										P	
Logistics Centre	40	1	40	-	-	-	Enclosed space.	Assumes container units or tent.											
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-											
Team Staging/Work Area	25	1	25	-	Space for staging and a work area.	-	-	-											
Secure Storage & Equipment Sign-out	12	1	12	-	Area for storage.	-	Storage for tools.	-											
Warehouse Storage	65	1	65	-	Storage area for furniture, fixtures, and equipment (FF&E).	-	Enclosed space.	Assumes tent											
Storage Yard	50	1	50	-	Outside storage area within compound.	-	Area only.	-											
Vehicle Staging	75	1	75	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-											
Fuel Tank(s)	9	Varies	Varies	-	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.											
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.											
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.											
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.											
Material Transfer Area (MTA)	-	1	-	400	An area where packages or other items are delivered when they arrive outside the venue delivery schedule times.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.					F				G	P	
X-Ray Area	18	1	18	36	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.											

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Look of the Games																				
Work Area and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.										P		
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J					J		R	IOC	
National Olympic Committee (NOC) Flags	-	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.			J	J				J		R	IOC	
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and back of locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J				J	G	R,P	IOC, IF	
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals.	-												
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH).	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	-		I	J	J					J	G	R	IOC, L
Backdrop - Press Conference Room	2.2 x 6	1	2.2 x 6	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-					F		I	I				
Medical Services																				
Athlete Medical	50	1	50	75	An area where Medical provides services to athletes competing at the venue.	Located within the accredited Athlete Area.	Enclosed air-conditioned space.	Assumes container or existing space. Located in or near Athlete Compound	J	J	J						J		S	IF
Reception & Waiting	10	1	10	-	Area where athletes check-in and wait prior to examination.	-	-	-												
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-												
Examination Area(s)	8	2	16	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-												
Physiotherapy Area(s)	8	1	8	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-												
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J						J		S	IF
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.												
Spectator Medical	40	1	40	80	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed air-conditioned space. 1 per 20,000 spectators	Assumes container unit or existing space.			I	F							P	
Reception & Waiting	10	1	10	-	Area where spectators check-in and wait prior to examination.	-	-	-												
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-												
Examination Area(s)	8	2	16	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-												
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Triage Station	9	1	9	18	Additional space to treat minor medical needs of spectators.	-	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.			I	F							P	
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.											P	
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Paved, graveled or grass area with fence, barricade or rope enclosure.	-					F	I	I				P	

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Merchandise																				
Office, Cash Room & Work Area	12	1	12	15	An area to manage the retailing of all Olympic merchandise inside the venue.	-	Enclosed space with secure entry.	Assumes container unit or existing space.					F					P		
Storage	15	1	15	20		-	-	Assumes storage containers or existing space.					F						P	
Program Sales Stands/Booths	1	1	1	2		-	Area only.	Units provided by vendor. Quantity and location decided by vendor and OCOG.					F						P	
Merchandise Points of Sale (POS)	6	Varies	Varies	18		Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.	Gross area is per each P.O.S. and includes service area and queue.	I			F						P	
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-		I	J	J						G	R	IOC
Olympic Family Services																				
Olympic Family Lounge	162	1	162	370	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes tent.	I		I	F					I	G	G	IOC
Welcome Desk & Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-	-												
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.	-												
Staff/Volunteer Room & Storage	9	1	9	-	On-call waiting area for Protocol staff and equipment storage.	-	-	-												
Dining & Lounge	90	1	90	-	Area for dining and lounge.	-	-	-												
Preparation/Buffer set-up/Beverage Area	45	1	45	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Staff/Volunteer, Athlete, Media)	-												
Toilets	20	1	20	40	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	2 female, 2 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided.			I	F					I	G	G	IOC
Protocol flags	-	-	-	-	-	-	See Look of the Games	-			J	J						J	R	IOC
Press Operations																				
Venue Media Centre (VMC)	350	1	350	550	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Conference Room and Photo Positions.	Close proximity to Press Tribune, Press Conference room, and Mixed Zone area.	Enclosed space for 100 press and 20 photographers.	Assumes tent.				F						R	IOC	
Reception & Information Desk	18	1	18	-	Welcome desk at the entrance, for information distribution.	-	-	-												
Storage	4	1	4	-	Equipment storage.	-	-	-												
Press Manager Office	12	1	12	-	Operational work space.	-	-	-												
Photo Manager Office	12	1	12	-	Operational work space.	-	-	-												
Olympic News Service (ONS) Work Room or Area	25	1	25	-	Operational work space.	-	Enclosed space.	-												
Info Stations	20	1	20	-	Computer stations and printers.	-	-	-												
Press Work Room or Area	150	1	150	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.												
Photo Work Room or Area	35	1	35	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.	-												
Photographers Check-in & Photo Bib Distribution	9	1	9	-	Area where photographers register and receive/return photo bibs.	-	-	-												
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.												
Lounge/Catering Prep	50	1	50	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-	-												
Toilets	1.5	6	9	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided												

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Press Conference Room	100	1	100	210	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I			F						R	IOC
Seating Area	60	1	60	-	An area for accredited press.	-	Seats and standing room.	-											
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3.6 m table, 8 chairs & step and repeat backdrop.	-											
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-											
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-											
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-				F			I	I			
Mixed Zone	20 linear mtrs.	1	20 linear mtrs.	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I		I	F						R	IOC,IF
Press Tribune	-	-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	-	Tabled seating is fitted out with telephones, television monitors, power and other press facilities (indoor venues). For outdoor venues, these services will exist in VMC.	-											
Press Tabletop Seating	Varies	Varies	Varies	-	-	Easy access from Venue Media Centre and direct access if possible to Mixed Zone.	<u>In an existing stadium or seating area:</u> 1 seat wide (folding chairs at 60 cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50 cm deep tabletop per position, each position = 2 stadium seats. <u>Temporary Stands:</u> 1 seat (folding chairs at 60 cm spacing) x 2 rows deep of proposed seating system (normally 150 cm-170 cm deep).	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.			I	F					R	IOC,IF	
Press Seating (non-tabled)	Varies	Varies	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.			I	F						R	IOC,IF
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided											
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-											
Field of Play (FOP)	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	In close proximity to FOP.	Approx 60 photographers expected at peak periods. 60cm wide x 90cm deep per position, multi-row areas require 60cm riser per row.	Power, Wireless and data cabling needed to photo positions on FOP.	J		I	J						R	IOC, IF
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Normal seating areas.	-	Seating areas are generally not applicable for outdoor venues.	I		I	F						G	IOC
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Security																				
Security Command centre	100	1	100	120	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.											P	
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-												
Security Work Area	15	1	15	-	An area for additional security agencies.	-	-	-												
CCTV Surveillance & Video Desk	12	1	12	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-												
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.												
Radio Dispatch & Monitoring	12	1	12	-	An area for the monitoring and control of security communication and the distribution/return of radios.	-	-	-												
Work Room	40	1	40	-	Open plan of work stations designated for security personnel.	-	-	-												
Secure Storage	8	1	8	-	An area for Security equipment storage.	-	-	-												
Dog Cage(s)	4	Varies	Varies	8 (each)	Holding area for security dogs.	-	Area only for enclosed portable units (e.g. cages)	Dependent on Host City / Country / Risk Assessment												F
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-					J	J						P
Briefing and Break Area / Staging Area	75	1	75	-	Area for briefing staff before and after shifts.	-	Enclosed space.	Assumes tent.												
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.					J	J						P
Vehicle Screening & Sanitisation Area	377	1	377	500	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.												P
Vehicle Queue	100	1	100	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-												
Oversized Vehicle Queue	70	1	70	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-												
Vehicle Sanitisation & Wanding Areas	100	1	100	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.												
Oversized Vehicle (Truck & Bus) Sanitization	70	-	70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-												
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.												
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Staff staging and break enclosed space.	-												
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the Venue Secure Perimeter and/or venue screening area for constituents.	-	-												
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-												P
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-	I											P
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-												P
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.												P

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the Venue Secure Perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	-				F					G	P	
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the Venue Secure Perimeter.	Net area for each screening position will accommodate: 4 Wanding Stations, OR - 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue.											
Athlete / Team	18	1-2	18-36	36-72	-	-	Screening and search area is covered.	-	I			F							P
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	-	-	Entrance can be combined with Athlete and/or Olympic Family.	I			F							P
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	-	-	Entrance can be combined with TO, ENG and/or Press.	I	I	F								P
Broadcast	18	1-2	18-36	45-90	-	-	Screening and search area is covered. Direct access from outside venue perimeter into Broadcast Compound.	Search area is covered. Direct access from outside venue perimeter into Broadcast Compound.				F			I				R IOC
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	-	-	-											
Press and Photographer	18	1-2	18-36	36-72	-	Located in close proximity if possible to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays. Entry should be exclusive to Media (Press and Broadcast) preferably leading directly into Press areas.	-				F							R IOC
Staff, Volunteer, Contractor & Vendor	18	2-3	36-54	90-135	-	-	-	-				F							G IOC
Spectator / Sponsors	18	Varies	Varies	54	-	-	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-				F							P
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.											
Exception Gate	-	-	-	-	Access gate for designated accredited personnel.	Located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.											
X-ray of bags	54	Varies	Varies	100 (each)	Device for screening bags/equipment coming into the venue.	-	-	-				I	F						G P
Venue Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	-				F	I						P
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	Located at each security screening area, 1m to 3m width, sometimes used as a secondary service vehicle exit point.	-											
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m in width, number varies per concourse design.	-											
Staff, Volunteer, Contractor & Vendor	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	-											
Sponsor Services																			
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.				I	F						P

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Sport Operations																			
Competition Management	45	1	45	70	A work area for Sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located close to Athlete Area and FOP; may be co-located within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space.	I				F					P	
Competition Manager & Asst. Mngr. Desks	12	1	12	-	An area for the Manager and Assistant(s) Manager.	-	-	-											
Assigned Work Area	15	1	15	-	Open plan of work stations designated for Sport personnel.	-	-	-											
Hot Desks	6	1	6	-	Shared work stations.	-	-	-											
Work Area	12	1	12	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-											
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-											
Sport Information	20	1	20	25	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located in Athlete Area.	Enclosed space with waiting area and seating.	Includes: information boards, pigeon holes, Info & Help desk, work area, info terminal stations & storage.	J			J				J		R	IF
Athlete Lounge	100	1	100	125	An area where athletes can relax at the venue while not training or competing.	Located in Athlete Area.	Enclosed space.	Includes: seating area, lounge, Info & Help Desk, info terminal stations.	J			J				J		R	IF
Athlete Dressing, Locker, Shower, Toilet	40	2	80	120	Change-room facilities to accommodate athletes at the venue during competition and training.	Located in Athlete Area.	Enclosed space. Separate male and female facilities.	Assumes container units or existing space.	J			J				J		R	IF
IF & Sport Meeting Room	30	1	30	45	Meeting facility at the venue for the International Federation and Competition Management.	Located in close proximity to the IF Area and Competition Management area.	Enclosed space.	Shared meeting room area between IF & Sport to serve various meeting needs.	J			J						G	IF
Sport Equipment Storage	40	1	40	50	Storage for athlete/team sport equipment.	Located adjacent to FOP or within close proximity.	-	Assumes container units or existing space.	J			J	I			I		R	IF
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	Reference should be made to IBF guidelines for all FOP technical requirements.	-											
Playing Surface Dimensions or Area	1380	3	4140	-	-	-	Floor must measure 46m by 30m. FOP is bounded by the first row of seating for spectators.	Total area required may be greater than playing surface dimension.	F			I			I	I		R	IF
Vertical Height Requirement	12m	1	12m	-	-	-	The uninterrupted height above the FOP is equal to 12m. Air flow (FOP) must be free of draughts or other air movement.	-											
Surface	-	-	-	-	-	-	A suspended sprung floor is required with court mats laid on top	-	J			J	I			J		R	IF
Sports Lighting - Technical																			
Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	-	-	May include a racquet re-stringing area alongside warm-up area.											
Warm-up Surface Dimensions or Area	500	3	1500	-	-	Adjacent to Competition Hall. Covered pathway from Warm-up area to Competition Hall.	3 court requirement; a minimum of 2 metres clear space surrounding all the outer lines of the court and this being a minimum requirement between any two courts marked out side by side.	Total area required may be greater than playing surface dimension.	J			J			I	J		R	IF
Vertical Height Requirement	10m	1	10m	-	-	-	-	Ceiling should be at least 10m preferably 12m.											
Surface	-	-	-	-	-	-	A suspended sprung floor is required with court mats laid on top	-	J			J	I			J		R	IF
Athlete / Team Seating																			
Same Sport	-	Varies	-	-	-	A designated seating area for athletes.	-	-	J	I	J					J		R	IOC,IF
Different Sport	-	Varies	-	-	-	-	-	-	I	I	F					I		R	IOC
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	May be required for Sport Staff use. Quantity varies according to athlete numbers.					F					P	
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	Required if FOP is not located near Athlete Area.	Assumes temporary units. Quantity varies according to athlete numbers.					F					P	

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International Federation																			
IF Area	60	1	60	65	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located in close proximity to accredited seating areas.	Enclosed space.	Assumes container units or existing space.	I		I	F						R	IF
IF President's Office	15	1	15	-	-	-	-	-	I		I	F						R	IF
IF Secretary - General/Executive Director's Office	15	1	15	-	-	-	-	-	I			F						G	IF
Reception, Secretariat, Waiting & Work Area	30	1	30	-	-	-	-	-	I			F						G	IF
Doctors Office	10	1	10		Area for 1 doctor.	-	Enclosed space.	Assumes container units or existing space.											
Jury Room	10	1	10	15	This space is utilised for the resolution of protests and appeals after competition.	-	Enclosed space.	Assumes container units or existing space.											
Umpire Lounge	50	1	50	60	Lounge for umpires.	-	Enclosed space.	Assumes container units or existing space; Not required if near other common use facilities (showers, toilets, etc.)	J			J						G	IF
Officials Locker Room, Shower, Toilet	20	2	40	50	Change area for officials.	-	Enclosed space.	-	I			F						R	IF
Technical Delegates Office/Work Area	15	1	15	20	Office area for Technical Delegates.	-	Enclosed space. 2 Technical Delegates.	-	I		I	F				I		R	IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I		J	J				J		R	IOC,IF
Sport Presentation																			
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.											
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-				F							P
Announcer Position	3	1	3	-	-	-	-	-				F							P
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space. Staff Work, Green Room, Entertainer Staging and Dressing and Prop Storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.											

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Technology Operations																				
Technology Help Desk	16	1	16	-	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support staff & manager.	-										P		
Venue Technology Operations (VTO)	25	1	25	-	OCOG Technology Operations area. Operational work space for entire Venue Technology team, including Partners & contractors.	Adjacent to or within Venue Operations Centre (VOC).	Medium security - lockable room. Air-conditioned as office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	-										G	P	
OCOG Venue Technology Work Area	-	1	-	-	Work space for Venue Technology Manager, Assistant Venue Technology Manager, Technology Staffing Manager and associated volunteer(s).	-	-	Work space size may be dependent upon workforce per shift.												
AV Contractor Work Area	-	1	-	-	Work space for AV contractors/Technicians.	-	-	Work space size may be dependent upon workforce per shift.												
IT Provider Work Area	-	1	-	-	Work space for IT staff and "home base" for IT volunteers.	-	-	Work space size may be dependent upon workforce per shift.												
Reprographic Provider Work Area	-	1	-	-	Work space for reprographic contractors/technicians	-	-	Work space size may be dependent upon workforce per shift.												
Mobile Phone Provider Work Area	-	1	-	-	Workspace for mobile phone provider.	-	-	Work space size may be dependent upon workforce per shift. Charging area for Venue Operations workforce phones may be required.												
Wired Communications Provider Work Area	-	1	-	-	Work space for Wired Communications contractors/technicians.	-	-	Work space size may be dependent upon workforce per shift.												
Timing & Scoring/OVR Provider Work Area	-	1	-	-	Work space for OVR/Timing and Scoring contractors/technicians.	-	-	May not be required if adequate working space is allocated in OVR room.												
Radio Distribution Room (RDR)	15	1	15	-	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E & workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).	I									P		
Information Technology																				
Computer Equipment Room (CER)	20	1	20	-	Area for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.	I									G	P	
Data Local Area Network (LAN) Management Room & Store	25	1	25	-	LAN monitoring room and associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational staff & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces.										G	P	

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Telecommunication & Audio Visual																				
Telecomm. Equipment Room (TER) Primary	36	1	36	-	Includes telecommunications equipment (PABX, structured cabling racks for data and voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	Raised flooring is preferable for cabling distribution, but not essential.		I		F							P	
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.		I		F							P	
Telecomm. Operations & Store	25	1	25	-	Operational space for Telecommunications technical staff and associated storage for spare parts.	Adjacent to TER.	As TER with adequate FF&E to support operational staff & storage.	If located adjacent to TER, power supply boards, UPS units & A/C services can be common for both spaces.		I		F							P	
Audio Control Positions	-	-	-	-	-	-	-	-				F					G		P	
Venue	4	1	4	-	Area within Sport Production, location for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Production. Can be on FOP, in stands or in a booth with view to FOP.	High Security. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	Storage for country anthems.												
Press Conference	4	1	4	-	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), air-conditioned, waterproof. Work space & FF&E for operator.	PA system may also be used for Competition Draw if draw is held in Press Conference room.												
Warm-Up Area	0	0	0	-	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Within Warm-up area for Athletes.	Standard/mains power & FF&E.	-												
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-												
Workforce Break/Briefing	2	Varies	Varies	-	Area within Staff Break/Training room where audio control equipment is installed to facilitate meetings/training of large numbers of staff.	Workforce break/dining areas.	Standard/mains power & FF&E.	-												
Video Board Control	4	1	4	-	Area of video control for video board or video projection system. Operations integral with those of Sport Production.	Ideally with Sport Production. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	Requirement based on deployment of Videoboard to ATH (mobile board).				F					G		P	
Wired Communications Control	2	1	2	-	Area of wired communications master control station and support technician. System essential to operations of both Sport Production and Results/FOP management.	Near to or within Sport Production is preferable. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location if located outdoors. Good cable access to FOP, OVR Room, Sport Production, Broadcast Graphics Room & Results Printing required. Workspace & FF&E for one technician, control equipment, spare parts and containers/boxes for equipment.	-				F					G		P	
Temporary PA equipment Room	2	1	2	-	Temporary location for installation of PA active equipment (amplifiers etc) for venue PA system.	In existing PA equipment room, if applicable. May be located under venue seating/tribunes if existing room not available.	High Security. Fully redundant power (mains & standby generator) to equipment. Good cable access to speaker location and PA/Audio Control position required. Equipment installed in racks. Each rack set is 1000H x 600W x 600 D maximum.	Number of racks will depend on size of system deployed. Generally venues with large geographic area (outdoor) require larger installation and therefore more racks of amplifier equipment.				F							P	

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Timing, Scoring, & Results Operations																				
Results Data Entry Position	-	-	-	-	Area(s) for event results and/or statistics data entry during competition.	As noted below	High Security. Fully redundant power (mains & generator) with UPS to all results data entry equipment/workstations. Space & FF&E for all data entry personnel & results management staff.	Where data entry occurs outdoors, adequate weather (rain/sun) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch	
Field of Play - Statistics Tables	6	3	18	-	Areas/positions for statistics calling & data entry into OVR system.	Positions located at each court on FOP with sport statisticians.	Cable pathway to Technical Table.	Space requirements based on 3 x courts used in competition.												
Field of Play - Technical/Jury Table	3	1	3	-	Area/position for results data entry & Event Control operations.	Position located at Technical Table on FOP with sport results & sport officials.	Cable Pathway to Statistics Tables , Official Table, sport specific scoreboards, speed guns & OVR Room.	-												
Timing and Scoring Position					Area(s) for event timing & scoring personnel & equipment during competition.	Sport Specific. However, all locations must have view to FOP	High Security. Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards & OVR room. Space & FF&E for operators and equipment.	-	I	I	I	F						R	IF, Swatch	
Field of Play (FOP) - Officials Chair	6	3	18	-	-	Positions located at each court on FOP with sport officials.	Cable pathway to Technical Table.	Space requirements based on 3 x courts used in competition.												
On Venue Results (OVR)	70	1	70	-	Area is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	Easy access to FOP critical for technical and results staff.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Space & FF&E required for high density of computer workstations, racks for servers and working space for technicians, operators and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or venues where two sports occur concurrently will require more space for additional OVR equipment.	I	F								P		
OVR Provider Work Area	25	1	25	-	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO/CIS/PRD etc).	Ideally adjacent to IT provider work area.	-	-												
IT Provider Work Area	20	1	20	-	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-												

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Scoreboard Control	4	1	4	-	Area of scoreboard control operations. Operations integral with those of Sport Production, data provided from OVR System. Space for both Control and Interface workstations and 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.	I			F				G	P	
Scoreboard Control	2	1	2	-	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator and workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-										
Scoreboard Interface	2	1	2	-	Area for interface equipment (PC workstations) linking OVR system and Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-										
Results Printing (PRD)	70	1	70	-	Area for hard copy results production and distribution. Location of high intensity work involving many staff preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area and position for the Print Distribution Workstation (IDS interface) equipment and operator.	Near/adjacent to Press Workroom, access to Press Tribunes, Broadcast Commentary Positions, Sport Information Desk, Doping & Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specification. Space & FF&E required for equipment and operational staff as well as space for 1 x pallet of paper to support print/copy operations.	-	I	I	I	F					R	IF, Swatch
TV Graphics Interface	3	1	3	-	Area where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operators & good cable access to OVR room.	-				I		F		G	P	
Technology Storage																		
Technology General Storage	15	1	15	-	Area for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F				G	P	
IT Bulk Storage	30	1	30	-	Storage area for all spare IT equipment & associated boxes/containers.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to IT provider at all times.				F				G	P	
Reprographic Primary Storage Area	12	1	12	-	Primary storage/technical area in-venue for reprographic provider. Storage for spare parts, additional devices and consumables serving primarily Results Printing Operations.	In venue location adjacent to, or within Results Printing Room.	High Security - lockable. Standard office environment with standard power. Workspace & FF&E for one technician.	-	I		F					G	P	
Reprographic Bulk Storage Area	-	1	-	-	Storage area for bulk paper allocated to venue (multiple pallets).	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of paper required to support venue operations.				F				G	P	
Timing and Scoring Workshop	10	1	10	-	In venue storage and workshop for timing equipment, spare parts and small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.	-	I		F					G	P	
Timing & Scoring Bulk Store	40	1	40	-	Storage area for large crates and containers used for scoreboards and bulk equipment. Must be accessible to OVR provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of Timing & Scoring equipment deployed to venue. May be combined with Timing & Scoring Workshop if location & size of space meet requirements for venue.	I		F					G	P	
Audio Visual Bulk Store	30	1	30	-	Storage area for large crates and containers used for video boards, PA equipment and TV boxes. Must be accessible to Video/Public address provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of audio/video equipment deployed to venue.				F				G	P	

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Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required to distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closet. CCFs are to be installed in locations that allow for easy access for service technicians and easy cable access from TER room and to user device locations.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Work Room.	High Security - lockable & weatherproof. May require fan or dedicated A/C depending upon room location and / or configuration. Fully redundant power (mains & generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.	I			F						P	
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of Power from Data/Voice and Audio Visual Cabling	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in a manner which allows for easy access and repair/replacement. Legacy installations are to be installed as permanent while temporary (overlay) should be installed using methods which are easily installed & removed minimising potential damage to existing venue.				F						P	
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.	-	-	"											
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.	-	-	"											
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.	-	-	"											
CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	"											
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	"											
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-											
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-											
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-											
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-											
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-											
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F						P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.											

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to Video Control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.		I		F						P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the videoboard. Required for outdoor venues where the videoboard cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabbling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each videoboard.											
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Production on a sport specific basis.	Adequate power, cable pathways to/from boards to Video Control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.		I		F					G	P	
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabbling) required to suspend PA speakers from venue ceiling structure.	-	-	-											
Mobile Phone Infrastructure (antenna)	-	Varies	-	-	Infrastructure required to support installation of additional radio antenna and mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to / from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.		I		F					G	P	

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Ticketing																			
Ticket Box Office	30	1	30	75	An area at the venue where Olympic tickets are sold.	Adjacent to the secure perimeter; near the spectator entry point of the venue	Gross area includes internal & external queue.	Assumes container unit with accessible access to internal and external service window. Dependent upon spectator capacity, venue layout and footprint and spectator access point locations.					F					P	
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	10	1	10	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s)	10	1	10	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	18	1	18	36	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.					F					P	
Driver Staging	55	1	55	100	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.					F					P	
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside Venue Secure Perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	12	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-					F					P	
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from each Host City, based on vehicle / bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J						I	P	
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J						I	P	
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F						P	
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.				F			I			G	IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.				F						G	IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.	I		F							G	IOC
Spectator and Staff Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				F						P	
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.	I		F							P	
Accessible	-	-	-	-	-	-	-	Part of Spectator total.				F						P	
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Surface areas paved or gravel.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have a drop-off in close proximity to accredited entry point and then driver will park.			I	F						P	
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.				F			I			P	
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.				F			I			P	
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-			J	J						P	
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes circulation.				F		I				P	
Emergency Services	-	-	-	50 (each)	-	Generally located inside the Secure Venue Perimeter.	-	Includes circulation.				F		I				P	

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Venue Development																			
Site Management Compound	348	1	348	520	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Dependent upon venue footprint, extent of temporary works, and number of contractors.										P	
Site Management Area	45	1	45	-			Enclosed space.												
Site Manager & Assistant Site Manager(s) Work Area	12	1	12	-	Work and meeting area for the Site Manager and Assistant Site Manager.														
Site Administration Desk & Work Area	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.														
Response Team & Vendor Staging	18	1	18	-	On-site permanent and temporary facilities for specialty staff and general labor crew to be on-call.														
Secure Storage - Site Management	9	1	9	-	Area for storage.														
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.		Enclosed space. Area for office, staging and a secure storage area.	Assumes container units or existing space. Contractor usually installs container units at their own cost.											
Sign/Look Staging, Work Space/Secure Storage	35	1	35	-	Area for holding, sorting, repairing of event signs, look materials and tools.			Assumes container unit or existing space.											
Material Warehouse/Construction Work Space	55	1	55	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.		Enclosed space.	Assumes tent or canopy with 2 side walls. Area for carpentry, painting and general construction. Storage for non-weather proof materials.											
Vendor Secure Storage	30	1	30	-	Area for containers, usually provided by the various temporary construction sub-contractors.		Enclosed space.	Assumes container units or existing space.											
Materials Staging Area	30	1	30	-	Area for the off-loading and loading of bulk construction materials.		Area only.												
Exterior Storage Area	30	1	30	-	Outdoor storage of material and products.		Area only.	Weatherproof area for large and bulk materials.											
Vehicle Staging	60	1	60	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.		Area only.	Service, Repair & Specialty vehicles											
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	Located in BOH compound areas.		Assumes temporary units. Accessible toilet facilities should be provided.											
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.		I		F						P	
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.			I		F						P	
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.											P
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.		Generators also provide primary source of power to one half of the FOP lighting.											
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.													

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Venue Management																			
Venue Operations Centre (VOC)	45	1	45	70	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Venue capacity and venue layout.					F					P	
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-											
Assigned Desks	15	1	15	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	6	1	6	-	Shared work stations.	-	-	-											
Work Space and Storage	12	1	12	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	30	1	30	40	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.					F					P	
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	15	1	15	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	8-10 people.											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	100	1	100	120	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre	Enclosed space.	Assumes existing space or tent. Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.					F					P	
Workforce																			
Workforce Area	120	1	120	150	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.					F					P	
Check-In Area	76	1	76	-	Area to log-in venue staff and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Area	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	175	1	175	210	The space where workforce meals are served and where workforce can break during their shift.	A location that will provide easy access to all workforce for breaks and meals; will vary according to venue layout/size.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon workforce numbers..					F					P	
END OF DOCUMENT																			

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation				
Accreditation																							
Venue Accreditation Office	60	1	60	150	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Day Pass Issue & Problem Resolution Desk	18	1	18	-																			
Work Area	18	1	18	-																			
Manager Desk or Office & Storage	12	1	12	-																			
Waiting Area	12	1	12	-																			
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	-	Enclosed space. May be required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.															
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.															
Broadcast																							
Broadcast Compound	-	1	-	5000	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements. Located in temporary structure.															
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Broadcast Manager Office	12	1	12	-		-	-	-	-														
Work Room, Assigned & Unassigned Desks	48	1	48	-		-	-	-	-														
Technical Operations Centre	60	1	60	150	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Broadcast Catering	175	1	175	220	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Kitchen & Prep	25	1	25	-		-	-	-	Assumes container unit.														
Buffet Line & Dining	150	1	150	-		-	-	-	Assumes container unit or tent.														
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements.															
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Assumes container units.															
Mobile Unit(s)	65	Varies	Varies	-	-	-	-	-															
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters.															
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Assumes container units.															
Mobile Unit(s)	65	Varies	Varies	-	-	-	-	-															
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.															
Toilets	1.5	12	18	54	Toilet units designated for broadcast personnel.	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.															
Commentator Control Room	45	1	45	60	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in close proximity to commentator position area.	Enclosed space with incoming television cable.	Assumes existing space or container.															
Broadcast Information Office (BIO)	25	1	25	30	Space for broadcast management and team meetings.	Located near commentator positions and CCR.	Enclosed space.	Assumes existing space or container.															
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-															
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J												
Mixed Zone	25	1	25	170	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Adjacent to the FOP.	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I	I	J												
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in seating areas with view to FOP and covered when possible.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Outdoor commentator positions should have the option of cover for protection from various weather conditions (e.g. sun, rain). Space for commentator positions may vary according to actual venue/permanent seating setup.															
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	Located at the rear of the commentator grouping so as not to disrupt the FOP view of other commentator positions.	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	A com-cam position equals 2 adjacent commentator positions.															

BASKETBALL Preliminary

Principles of Stakeholder Involvement:
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Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions	1 position = uses 1 seat in existing seating bowls.	-			I	J						R	IOC	
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval. Space for camera positions may vary according to actual venue/permanent seating setup.	J		I	J						R	IOC	
Camera Position - Other	4	15	60	135	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	Space for camera positions may vary according to actual venue/permanent seating setup.	I		I	J						R	IOC	
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-				J	I					G	IOC	
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	-				J	I					G	IOC	
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in BOH areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.				J	I					G	IOC	
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography, in conjunction with OBS and IFs.	J			J	I					R	IOC	
Catering																				
Catering Compound	565	1	565	850	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity.	I			F						P		
Work Areas - Catering Management	28	1	28	-	Operational work space(s).	Generally, located in Catering Compound or possible the VOC.	Enclosed space.	Assumes existing space or container.												
Organising Committee Catering Manager	-	-	-	-		-	See Venue Management - VOC.	-												
Catering Contractor	16	1	16	-		-	-	-												
Beverage Contractor	12	1	12	-		-	-	-												
Dry, Cold and Ice Storage	38	6	228	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.												
Vehicle Staging	90	1	90	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-												
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-												
Kitchen and Preparation Area	80	1	80	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.												
Uncovered Storage	75	1	75	-	Outdoor storage of material and products.	-	Area only.	-												
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilets should be provided.												
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	-												
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container(s). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity, level of catering activity.	I			F						P		
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	-												
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	-												
Outlets' look	-	-	-	-	Look required for concessionaire units.	-	Venue catering facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-	I			F						P		

BASKETBALL Preliminary

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Ceremonies																				
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-			I	F							P	
Ceremonies Staging	36	1	36	45	For the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule; to coordinate location of podium, procession, and recession route, and location of flagpoles.	Adjacent to or close to FOP.	Consists of coordinator work space with area for anthem storage, secure storage, preparation and dressing area; see below for additional details.	Assumes existing space or container.			I	F							P	
Manager Desk	6	1	6	-	Work space for Manager.	-	-	-												
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenters, Medal/Flower staging, Secure medal and flag storage	22	1	22	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenter Preparation and Dressing	4	2	8	-	A dressing and preparation area for Presenters.	In close proximity to FOP.	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-												
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	In close proximity to FOP.	Limited use, may be shared with other space. See Sport Presentation.	-												
Awards Podium Storage	12	1	12	15	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	Adjacent to FOP.			I	F							P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.	I		J	J				J	G	R	IOC	
Cleaning and Waste																				
Cleaning and Waste Compound	252	1	252	350	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependent upon venue capacity.					F						P	
Vehicle Staging	72	1	72	-	Parking area for collection vehicles which generally remain inside the venue.	-	Area only.	-												
Sorting Area	72	1	72	-	Area for sorting waste.	-	Area only.	-												
Waste and Recycle Containers	15	4	60	-	Area in front of waste and recycle bins where material is separated for containment.	-	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).												
Compactor Unit	25	Varies	Varies	-	Area in front of waste and recycle bins where material is separated for containment.	-	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.												
Equipment Supply and Storage	15	2	30	-	Space for cleaning equipment and paper product.	-	Enclosed space.	Assumes container unit.												
Contractor Office	18	1	18	-	Space for management and workforce staging.	-	Enclosed space.	-												
Doping Control																				
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	-	J	J	J								R	IOC
Waiting Area/Reception	26	1	26	30	Area where athletes check-in and wait prior to testing.	-	-	-												
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Blood Processing Room(s)	15	Varies	Varies	20 (each)	Area where athlete blood samples are provided and sealed	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer. Wash basin for hand sanitisation.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Office / Storage	12	1	12	15	Work and storage space for Doping Manager.	-	Enclosed space. Secure storage.	-												
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-	I		J	J							R	IOC

BASKETBALL Preliminary

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Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.					F					P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of staff pre and post shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large group.	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.					F					P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.					F					P	
Information Desk	-	-	-	-	-	-	-	-											
Lost & Found	-	-	-	-	-	-	-	-											
Assisted Listening Device Rental	-	-	-	-	-	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	Adjacent to Public Information.	-	-					F					P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes 12m away from covered search area.	Total number generally 50% of security screening positions.					F					P	
Stroller Storage	72	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	-	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.					F					P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.					F					P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators					F					P	
Spectator Shade & Shelter	1	Varies	Varies	-	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and event services areas.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.					F					P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-					F					P	
Spectator Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators.	-	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.					F					P	
Hand Wash Stations	1	Varies	Varies	6 (per 20 toilets)	A chemical unit used in the absence of potable water.	-	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.					F					P	

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Finance																				
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I		F						P		
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Generally located inside venue perimeter and outside venue perimeter.	Area only.	Quantity dependent upon venue capacity.		I		F						P		
Language Services																				
Work Area / Desk	20	1	20	25	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre.	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-			J	J			I			G	IOC	
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference needs.	-			J	J			I			G	IOC	
Logistics																				
Logistics Compound	-	1	Varies	650	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access. Secondary Compound Area - an additional compound area may be necessary for staging or storage of equipment that is in close proximity to FOP and/or the finish area.										P		
Logistics Centre	60	1	60	-	-	-	Enclosed space.	Assumes container units or tent.												
Logistics Manager and Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-												
Team Staging/Work Area	33	1	33	-	Space for staging and a work area.	-	-	-												
Secure Storage and Equipment Sign-out	15	1	15	-	Area for storage.	-	Storage for tools.	-												
Warehouse Storage	90	1	90	-	Storage area for furniture, fixtures, and equipment (FF&E).	-	Enclosed space.	Assumes tent												
Storage Yard	75	1	75	-	Outside storage area within compound.	-	Area only.	-												
Vehicle Staging	100	1	100	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-												
Fuel Tank(s)	9	Varies	Varies	25 (each)	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.												
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.												
Material Transfer Area (MTA)	-	1	-	575	An area where packages or other items are delivered when they arrive outside the venue delivery schedule times.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.										G	P	
X-Ray Area	36	1	36	72	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.												

BASKETBALL Preliminary

Principles of Stakeholder Involvement:
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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Look of the Games																				
Work Area and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.										P		
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J					J		R	IOC	
National Olympic Committee (NOC) Flags	-	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.			J	J				J		R	IOC	
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and back of locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J				J	G	R,P	IOC, IF	
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals.	-												
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH).	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	-		I	J	J					J	G	R	IOC, L
Backdrop - Press Conference Room	2.2 x 6	1	2.2 x 6	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F			I	I				
Medical Services																				
Athlete Medical	65	1	65	100	An area where Medical provides services to athletes competing at the venue.	Located within the accredited Athlete Area.	Enclosed air-conditioned space.	Assumes container or existing space. Located in or near Athlete Compound	J	J	J						J		S	IF
Reception and Waiting	12	1	12	-	Area where athletes check-in and wait prior to examination.	-	-	-												
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-												
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-												
Physiotherapy Area(s)	8	2	16	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-												
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	-												
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J						J		S	IF
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Spectator Medical	50	1	50	100	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed air-conditioned space. 1 per 20,000 spectators	Assumes container unit or existing space.			I	F							P	
Reception and Waiting	12	1	12	-	Area where spectators check-in and wait prior to examination.	-	-	-												
Medical Work Space & Secure Storage	12	1	12	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-												
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-												
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Triage Station	36	1	38	72	Additional space to treat minor medical needs of spectators.	-	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.			I	F							P	
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.					F		I				P	
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Paved, graveled or grass area with fence, barricade or rope enclosure.	-				F		I					P	

BASKETBALL Preliminary

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Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor IOC	OCOG	Venue Owner/Operator Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation		
Merchandise																			
Office, Cash Room and Work Area	12	1	12	15	An area to manage the retailing of all Olympic merchandise inside the venue.	-	Enclosed space with secure entry.	Assumes container unit or existing space.				F					P		
Storage	15	2	30	35		-	-	Assumes storage containers or existing space.				F						P	
Program Sales Stands/Booths	1	1	1	2		-	Area only.	Units provided by vendor. Quantity and location decided by vendor and OCOG.				F						P	
Merchandise Points of Sale (POS)	6	Varies	Varies	18 (each)		Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.	Gross area is per each P.O.S. and includes service area and queue.	I		F						P	
Outlets' look	-	-	-	-	Look required for concessionaire units.	-	Venue merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-		I	J	J				G	R	IOC	
Olympic Family Services																			
Olympic Family Lounge	240	1	240	500	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes tent.	I		I	F			I	G	G	IOC	
Welcome Desk and Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-	-											
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.	-											
Staff/Volunteer Room and Storage	12	1	12	-	On-call waiting area for Protocol staff and equipment storage.	-	-	-											
Dining and Lounge	140	1	140	-	Area for dining and lounge.	-	-	-											
Preparation/Buffer set-up/Beverage Area	70	1	70	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Staff/Volunteer, Athlete, Media)	-											
Toilets	30	1	30	60	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	4 female, 4 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided.			I	F			I	G	G	IOC	
Protocol flags	-	-	-	-	-	-	See Look of the Games	-			J	J			J		R	IOC	
Press Operations																			
Venue Media Centre (VMC)	600	1	600	800	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Conference Room and Photo Positions.	Close proximity to Press Tribune, Press Conference room, and Mixed Zone area.	Enclosed space.	Assumes tent.				F				R	IOC		
Reception & Information Desk	24	1	24	-	Welcome desk at the entrance, for information distribution.	-	-	-											
Storage	6	1	6	-	Equipment storage.	-	-	-											
Press Manager Office	12	1	12	-	Operational work space.	-	-	-											
Photo Manager Office	12	1	12	-	Operational work space.	-	-	-											
Olympic News Service (ONS) Work Room or Area	35	1	35	-	Operational work space.	-	Enclosed space.	-											
Info Stations	28	1	28	-	Computer stations and printers.	-	-	-											
Press Work Room or Area	240	1	240	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.											
Photo Work Room or Area	50	1	50	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.	-											
Photographers Check-in & Photo Bib Distribution	12	1	12	-	Area where photographers register and receive/return photo bibs.	-	-	-											
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.											
Lounge/Catering Prep	100	1	100	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-	-											
Toilets	1.5	8	12	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided											

BASKETBALL Preliminary

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Press Conference Room	150	1	150	280	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I		F					R	IOC		
Seating Area	100	1	100	-	An area for accredited press.	-	Seats and standing room.	-											
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3.6 m table, 8 chairs & step and repeat backdrop.	-											
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-											
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-											
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-			F			I	I				
Press Tribune		-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	-	Tabled seating is fitted out with telephones, television monitors, power and other press facilities (indoor venues). For outdoor venues, these services will exist in VMC.	-											
Press Tabletop Seating	Varies	-	Varies	-		Easy access from Venue Media Centre and direct access if possible to Mixed Zone.	In an existing stadium or seating area: 1 seat wide (folding chairs at 60 cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50 cm deep tabletop per position, each position = 2 stadium seats. Temporary Stands: 1 seat (folding chairs at 60 cm spacing) x 2 rows deep of proposed seating system (normally 150 cm-170 cm deep).	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.		I	F				I	I	R	IOC,IF	
Press Seating (non-tabled)	Varies	-	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.		I	F					I	R	IOC,IF	
Toilets	1.5	Varies	Varies		Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided											
Photographers Positions		-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-											
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	Located at both ends of the court.	Approx. 160 photographers expected at peak periods. 60cm wide x 90cm deep per position, multi-row areas require 60cm riser per row.	Power, Wireless and data cabling needed to photo positions on FOP.	J	I	J					I	J	R	IOC, IF
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Normal seating areas.	-	Seating areas are generally not applicable for outdoor venues.	I	I	F					I	I	G	IOC
Lighting		-	-	-	-	-	See Broadcast for lighting specifications.	-											

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Security							See Broadcast for lighting specifications.												
Security Command Centre	120	1	120	145	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.					I	F				P	
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-											
Security Work Area	15	1	15	-	An area for additional security agencies.	-	-	-											
CCTV Surveillance & Video Desk	15	1	15	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-											
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.											
Radio Dispatch & Monitoring	15	1	15	-	An area for the monitoring and control of security communication and the distribution/return of radios.	-	-	-											
Work Room	50	1	50	-	Open plan of work stations designated for security personnel.	-	-	-											
Secure Storage	10	1	10	-	An area for Security equipment storage.	-	-	-											
Dog Cage(s)	4	Varies	Varies	8 (each)	Holding area for security dogs.	-	Area only for enclosed portable units (e.g. cages)	Dependent on Host City / Country / Risk Assessment						F					
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-				J	J					P	
Briefing and Break Area / Staging Area	140	1	140	170	Area for briefing staff before and after shifts.	-	Enclosed space.	Assumes tent.											
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.				J	J					P	
Vehicle Screening & Sanitisation Area	569	1	569	800	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.				I	F					P	
Vehicle Queue	175	1	175	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-											
Oversized Vehicle Queue	140		140	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-											
Vehicle Sanitisation & Wanding Areas	150		75	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.											
Oversized Vehicle (Truck & Bus) Sanitization	70		70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-											
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.											
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Staff staging and break enclosed space.	-											
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the Venue Secure Perimeter and/or venue screening area for constituents.	-	-					F	I					
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-				J	J					P	
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-	I			F						P	
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-				F		I				P	
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.				F						P	

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Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the Venue Secure Perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	-				F					G	P		
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the Venue Secure Perimeter.	Net area for each screening position will accommodate: 4 Wanding Stations, OR - 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue.												
Athlete / Team	18	1-2	18-36	36-72	-	-	Screening and search area is covered.	-	I		F							I	P	
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	-	-	Entrance can be combined with Athlete and/or Olympic Family.	I		F							I	P	
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	-	-	Entrance can be combined with TO, ENG and/or Press.	I	I	F							I	P	
Broadcast	18	1-2	18-36	45-90	-	-	Screening and search area is covered. Direct access from outside venue perimeter into Broadcast Compound.	Search area is covered. Direct access from outside venue perimeter into Broadcast Compound.			F				I				R	IOC
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	-	-	-												
Press and Photographer	18	1-2	18-36	36-72	-	Located in close proximity if possible to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast) preferably leading directly into Press areas.	-			F								R	IOC
Staff, Volunteer, Contractor & Vendor	18	2-3	36-54	90-135	-	-	-	-			F								G	IOC
Spectator / Sponsors	18	Varies	Varies	54	-	-	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-			F									P
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.												
Exception Gate	-	-	-	-	Access gate for designated accredited personnel.	Located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.												
X-ray of bags	54	Varies	Varies	100 (each)	Device for screening bags/equipment coming into the venue.	-	-	-			I	F						G	P	
Venue Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	-			F	I							P	
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	Located at each security screening area, 1m to 3m width, sometimes used as a secondary service vehicle exit point.	-												
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m in width, number varies per concourse design.	-												
Staff, Volunteer, Contractor & Vendor	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	-												
Sponsor Services																				
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.			I	F							P	

BASKETBALL Preliminary

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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Sport Operations																			
Competition Management	60	1	60	90	A work area for Sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located close to Athlete Area and FOP; may be co-located within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space.	I				F					P	
Competition Manager & Asst. Mngr. Desks	12	1	12	-	An area for the Manager and Assistant(s) Manager.	-	-	-											
Assigned Work Area	20	1	20	-	Open plan of work stations designated for Sport personnel.	-	-	-											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Area	18	1	18	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-											
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-											
Sport Information	40	1	40	50	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located in Athlete Area.	Enclosed space with waiting area and seating.	Includes: information boards, pigeon holes, Info & Help desk, work area, info terminal stations & storage.	J			J						R	IF
Athlete Lounge	50	1	50	90	An area where athletes can relax at the venue while not training or competing.	Located in Athlete Area.	-	Includes: seating area, lounge, Info & Help Desk, info terminal stations.	J			J						R	IF
Athlete Dressing, Locker, Shower, Toilet	50	4	200	300	Change-room facilities to accommodate athletes at the venue during competition and training.	Located in Athlete Area.	Enclosed space. Separate male and female facilities.	Assumes container units or existing space.	J			J						R	IF
IF & Sport Meeting Room	30	1	30	45	Meeting facility at the venue for the International Federation and Competition Management.	Located in close proximity to the IF Area and Competition Management area.	Enclosed space.	Shared meeting room area between IF & Sport to serve various meeting needs.	J			J						G	IF
Sport Equipment Storage	80	1	80	100	Storage for athlete/team sport equipment.	Located adjacent to FOP or within close proximity.	-	Assumes container units or existing space.	J			J	I					R	IF
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	Reference should be made to FIBA guidelines for all FOP technical requirements.	All basketball equipment (backstop units, electronic scoreboards, 24-second clocks and wooden flooring) must be approved by FIBA.											
Playing Surface Dimensions or Area	28x15	1	420	-	-	-	Refer to FIBA requirements.	Total area required may be greater than playing surface dimension.	F			I						R	IF
Total Required Area Dimensions or Area	34x20	1	680	-	-	-	Refer to FIBA requirements.	-	F			I						R	IF
Vertical Height Requirement	10m	1	10m	-	-	-	Refer to FIBA requirements.	-											
Surface	-	-	-	-	-	-	Refer to FIBA requirements.	-	J			J	I					R	IF
Orientation	-	-	-	-	Orientation of FOP area.	-	Refer to FIBA requirements.	-	J			J	I					R	IF
Sports Lighting - Technical	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

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Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	-	-	-											
Warm-up Surface Dimensions or Area	-	-	-	-	-	Adjacent to FOP (close proximity).	In addition to the FOP, the athletes need a warm-up area consisting of at least 2 full size basketball courts.	Total area required may be greater than playing surface dimension.	J			J			I	J		R	IF
Surface	-	-	-	-	-	-	-	-	J		J	I				J		R	IF
Orientation	-	-	-	-	Orientation of warm-up area.	-	-	-	I		F	I						R	IF
Athlete / Team Seating	-	-	-	-	A designated seating area for athletes.	-	-	-	J		I	J				J			
Same Sport	-	Varies	-	-	-	-	-	-	J		I	J				I		R	IOC,IF
Different Sport	-	Varies	-	-	-	-	-	-	I		I	F				I		R	IOC
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	May be required for Sport Staff use. Quantity varies according to athlete numbers.				F						P	
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	Required if FOP is not located near Athlete Area.	Assumes temporary units. Quantity varies according to athlete numbers.				F						P	
International Federation																			
IF Area	70	1	70	80	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located in close proximity to accredited seating areas.	Enclosed space.	Assumes container units or existing space.	I		I	F						R	IF
IF President's Office	15	1	15	-	-	-	-	-	I		I	F						R	IF
IF Secretary - General/Executive Director's Office	15	1	15	-	-	-	-	-	I		F							G	IF
Reception, Secretariat, Waiting & Work Area	40	1	40	-	-	-	-	-	I		F							G	IF
Jury and Appeals Room	30	1	30	35	A meeting area used by FIBA commissioners and in the case of an appeal.	-	Enclosed space.	Assumes container units or existing space.	I		F							R	IF
Officials Lounge	30	1	30	35	A rest area for officials.	-	Enclosed space.	Assumes container units or existing space.	J		J							G	IF
Officials Locker Room, Shower, Toilet	15	4	60	80	A change area for officials.	-	Male and female locker areas required.		I		F							R	IF
Technical Delegates Office/Work Area	15	1	15	20	Office area for Technical Delegates.	-	Enclosed space. 2 Technical Delegates.		I		I	F				I		R	IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I		J	J				J		R	IOC,IF
Sport Presentation																			
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.											
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-				F						P	
Announcer Position	3	1	3	-	-	-	-	-				F						P	
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space. Staff Work, Green Room, Entertainer Staging and Dressing and Prop Storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.											

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Technology Operations																				
Technology Help Desk	20	1	20	-	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium Security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support staff & manager.					F						P		
Venue Technology Operations (VTO)	25	1	25	-	OCOG Technology Operations area. Operational work space for entire Venue Technology team, including Partners & contractors.	Adjacent to or within Venue Operations Centre (VOC).	Medium Security - lockable room. Air-conditioned as office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.					F					G	P		
OCOG Venue Technology Work Area	-	1	-	-	Work space for Venue Technology Manager, Assistant Venue Technology Manager, Technology Staffing Manager and associated volunteer(s).	-	-	Work space size may be dependent upon workforce per shift.												
AV Contractor Work Area	-	1	-	-	Work space for AV contractors/Technicians.	-	-	Work space size may be dependent upon workforce per shift.												
IT Provider Work Area	-	1	-	-	Work space for IT staff and "home base" for IT volunteers.	-	-	Work space size may be dependent upon workforce per shift.												
Reprographic Provider Work Area	-	1	-	-	Work space for reprographic contractors/technicians	-	-	Work space size may be dependent upon workforce per shift.												
Mobile Phone Provider Work Area	-	1	-	-	Workspace for mobile phone provider.	-	-	Work space size may be dependent upon workforce per shift. Charging area for Venue Operations workforce phones may be required.												
Wired Communications Provider Work Area	-	1	-	-	Work space for Wired Communications contractors/technicians.	-	-	Work space size may be dependent upon workforce per shift.												
Timing & Scoring/OVR Provider Work Area	-	1	-	-	Work space for OVR/Timing and Scoring contractors/technicians.	-	-	May not be required if adequate working space is allocated in OVR room.												
Radio Distribution Room (RDR)	15	1	15	-	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E & workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).	I			F						P		
Information Technology																				
Computer Equipment Room (CER)	20	1	20	-	Area for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.	I			F					G	P		
Data Local Area Network (LAN) Management Room & Store	25	1	25	-	LAN monitoring room and associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational staff & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces.				F					G	P		
Telecommunication & Audio Visual																				
Telecomm. Equipment Room (TER) Primary	36	1	36	-	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	Raised flooring is preferable for cabling distribution, but not essential.	I			F							P	
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.	I			F							P	
Telecomm. Operations & Store	25	1	25	-	Operational space for Telecommunications technical staff and associated storage for spare parts.	Adjacent to TER.	As TER with adequate FF&E to support operational staff & storage.	If located adjacent to TER, power supply boards, UPS units & A/C services can be common for both spaces.	I			F							P	

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Audio Control Positions	-	-	-	-	-	-	-	-											
Venue	4	1	4	-	Area within Sport Production, location for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Production. Can be on FOP, in stands or in a booth with view to FOP.	High Security. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	Storage for country anthems.				F							
Press Conference	4	1	4	-	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), air-conditioned, waterproof. Work space & FF&E for operator.	PA system may also be used for Competition Draw if draw is held in Press Conference room.											
Warm-Up Area	0	0	0	-	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Within Warm-up area for Athletes.	Standard/mains power & FF&E.	-											
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-											
Workforce Break/Briefing	2	Varies	Varies	-	Area within Staff Break/Training room where audio control equipment is installed to facilitate meetings/training of large numbers of staff.	Workforce break/dining areas.	Standard/mains power & FF&E.	-											
Video Board Control	4	1	4	-	Area of video control for video board or video projection system. Operations integral with those of Sport Production.	Ideally with Sport Production. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	Requirement based on deployment of Videoboard to ATH (mobile board).				F					G	P	
Wired Communications Control	2	1	2	-	Area of wired communications master control station and support technician. System essential to operations of both Sport Production and Results/FOP management.	Near to or within Sport Production is preferable. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location if located outdoors. Good cable access to FOP, OVR Room, Sport Production, Broadcast Graphics Room & Results Printing required. Workspace & FF&E for one technician, control equipment, spare parts and containers/boxes for equipment.	-				F					G	P	
Temporary PA equipment Room	2 min	1	2 min	-	Temporary location for installation of PA active equipment (amplifiers etc) for venue PA system.	In existing PA equipment room, if applicable. May be located under venue seating/tribunes if existing room not available.	High Security. Fully redundant power (mains & standby generator) to equipment. Good cable access to speaker location and PA/Audio Control position required. Equipment installed in racks. Each rack set is 1000H x 600W x 600 D maximum.	Number of racks will depend on size of system deployed. Generally venues with large geographic area (outdoor) require larger installation and therefore more racks of amplifier equipment.				F						P	

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Timing, Scoring, & Results Operations																			
Results Data Entry Position	-	-	-	-	Area(s) for event results and/or statistics data entry during competition.	As noted below	High Security. Fully redundant power (mains & generator) with UPS to all results data entry equipment/workstations. Space & FF&E for all data entry personnel & results management staff.	Where data entry occurs outdoors, adequate weather (rain/sun) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
Field of Play - Statistics Tables	2	2	4	-	Areas/positions for statistics calling & data entry into OVR system.	Positions located at either end of FOP with sport statisticians.	Cable pathway to Technical Table.	May occur as a position on the FOP, or in a room with a view to the FOP.											
Field of Play - Technical Table	3	1	3	-	Area/position for results data entry.	Position located at Technical Table on FOP with sport results & sport officials.	Cable pathway to Statistics Tables, Official Table & OVR Room.	Generally occurs Back of House, in sport location.											
Timing and Scoring Position					Area(s) for event timing & scoring personnel & equipment during competition.	Sport Specific. However, all locations must have view to FOP	High Security. Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards & OVR room. Space & FF&E for operators and equipment.	-	I	I	I	F						R	IF, Swatch
Field of Play - Official Table	2	1	2	-	-	Position located on FOP with sport officials.	Cable pathway to Technical Table, sport specific scoreboards & shot clock.	-											
On Venue Results (OVR)	75	1	75	-	Area is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	Easy access to FOP critical for technical and results staff.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Space & FF&E required for high density of computer workstations, racks for servers and working space for technicians, operators and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or venues where two sports occur concurrently will require more space for additional OVR equipment.	I	F								P	
OVR Provider Work Area	25	1	25	-	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO/CIS/PRD etc).	Ideally adjacent to IT provider work area.	-	-											
IT Provider Work Area	25	1	25	-	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-											
Scoreboard Control	4	1	4	-	Area of scoreboard control operations. Operations integral with those of Sport Production, data provided from OVR System. Space for both Control and Interface workstations and 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.	I	F							G	P	
Scoreboard Control	2	1	2	-	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator and workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-											
Scoreboard Interface	2	1	2	-	Area for interface equipment (PC workstations) linking OVR system and Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-											
Results Printing (PRD)	80	1	80	-	Area for hard copy results production and distribution. Location of high intensity work involving many staff preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area and position for the Print Distribution Workstation (IDS interface) equipment and operator.	Near/adjacent to Press Workroom, access to Press Tribunes, Broadcast Commentary Positions, Sport Information Desk, Doping & Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specification. Space & FF&E required for equipment and operational staff as well as space for 1 x pallet of paper to support print/copy operations.	-	I	I	I	F						R	IF, Swatch
TV Graphics Interface	3	1	3	-	Area where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operators & good cable access to OVR room.	-				I	F	G	P				

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Technology Storage																			
Technology General Storage	15	1	15	-	Area for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.					F				G	P	
IT Bulk Storage	30	1	30	-	Storage area for all spare IT equipment & associated boxes/containers.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to IT provider at all times.					F				G	P	
Reprographic Primary Storage Area	12	1	12	-	Primary storage/technical area in-venue for reprographic provider. Storage for spare parts, additional devices and consumables serving primarily Results Printing Operations.	In venue location adjacent to, or within Results Printing Room.	High Security - lockable. Standard office environment with standard power. Workspace & FF&E for one technician.	-	I			F					G	P	
Reprographic Bulk Storage Area	-	1	-	-	Storage area for bulk paper allocated to venue (multiple pallets).	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of paper required to support venue operations.					F				G	P	
Timing and Scoring Workshop	10	1	10	-	In venue storage and workshop for timing equipment, spare parts and small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.	-	I			F					G	P	
Timing & Scoring Bulk Store	30	1	30	-	Storage area for large crates and containers used for scoreboards and bulk equipment. Must be accessible to OVR provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of Timing & Scoring equipment deployed to venue. May be combined with Timing & Scoring Workshop if location & size of space meet requirements for venue.	I			F					G	P	
Audio Visual Bulk Store	30	1	30	-	Storage area for large crates and containers used for video boards, PA equipment and TV boxes. Must be accessible to Video/Public address provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of audio/video equipment deployed to venue.				F					G	P	
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required to distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closet. CCFs are to be installed in locations that allow for easy access for service technicians and easy cable access from TER room and to user device locations.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Work Room.	High Security - lockable & weatherproof. May require fan or dedicated A/C depending upon room location and / or configuration. Fully redundant power (mains & generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.	I			F						P	
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of Power from Data/Voice and Audio Visual Cabling	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in a manner which allows for easy access and repair/replacement. Legacy installations are to be installed as permanent while temporary (overlay) should be installed using methods which are easily installed & removed minimising potential damage to existing venue.				F						P	
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.	-	-	"											
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.	-	-	"											
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.	-	-	"											

BASKETBALL Preliminary

Principles of Stakeholder Involvement:
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CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	"											
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	"											
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-											
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-											
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-											
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-											
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-											
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I		F							P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.											
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to Video Control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I		F							P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the videoboard. Required for outdoor venues where the videoboards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each videoboard.											
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Production on a sport specific basis.	Adequate power, cable pathways to/from boards to Video Control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I		F						G	P	
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend PA speakers from venue ceiling structure.	-	-	-											
Mobile Phone Infrastructure (antenna)	-	Varies	-	-	Infrastructure required to support installation of additional radio antenna and mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to / from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.	I		F						G	P	

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Ticketing																			
Ticket Box Office	40	1	40	100	An area at the venue where Olympic tickets are sold.	Adjacent to the secure perimeter; near the spectator entry point of the venue	Gross area includes internal & external queue.	Assumes container unit with accessible access to internal and external service window. Dependent upon venue layout and footprint, spectator access point locations.					F					P	
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	15	1	15	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height	-											
External Ticket Sales Window(s)	15	1	15	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height	-											
Transport																			
Transport Area	25	1	25	50	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.					F					P	
Driver Staging	80	1	80	150	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.					F					P	
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside Venue Secure Perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	20	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-					F					P	
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from each Host City, based on vehicle / bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J							I	P
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J							I	P
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F							P
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.				F						I	G IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.				F							G IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.	I		F								G IOC
Spectator and Staff Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				F							P
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.	I		F								P
Accessible	-	-	-	-	-	-	-	Part of Spectator total.				F							P
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Surface areas paved or gravel.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have a drop-off in close proximity to accredited entry point and then driver will park.			I	F							P
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.				F							P
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.				F							P
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-			J	J							P
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes circulation.				F							P
Emergency Services	-	-	-	50 (each)	-	Generally located inside the Secure Venue Perimeter.	-	Includes circulation.				F							P

BASKETBALL Preliminary

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Venue Development																			
Site Management & Construction Compound	503	1	503	650	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Dependent upon venue footprint, extent of temporary works, and number of contractors.					F					P	
Site Management Area	60	1	60	-			Enclosed space.												
Site Manager & Assistant Site Manager(s) Work Area	12	1	12	-	Work and meeting area for the Site Manager and Assistant Site Manager.														
Site Administration Desk & Work Area	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.														
Response Team & Vendor Staging	24	1	24	-	On-site permanent and temporary facilities for specialty staff and general labor crew to be on-call.														
Secure Storage - Site Management	12	1	12	-	Area for storage.														
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.		Enclosed space. Area for office, staging and a secure storage area.	Assumes container units or existing space. Contractor usually installs container units at their own cost.											
Sign/Look Staging, Work Space/Secure Storage	50	1	50	-	Area for holding, sorting, repairing of event signs, look materials and tools.			Assumes container unit or existing space.											
Material Warehouse/Construction Work Space	80	1	80	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.		Enclosed space.	Assumes tent or canopy with 2 side walls. Area for carpentry, painting and general construction. Storage for non-weather proof materials.											
Vendor Secure Storage	60	1	60	-	Area for containers, usually provided by the various temporary construction sub-contractors.		Enclosed space.	Assumes container units or existing space.											
Materials Staging Area	50	1	50	-	Area for the off-loading and loading of bulk construction materials.		Area only.												
Exterior Storage Area	50	1	50	-	Outdoor storage of material and products.		Area only.	Weatherproof area for large and bulk materials.											
Vehicle Staging	90	1	90	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.		Area only.	Service, Repair & Specialty vehicles											
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	Located in BOH compound areas.		Assumes temporary units. Accessible toilet facilities should be provided.											
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.	I		F							P	
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.		I		F							P	
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.	I		F							P	
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.		Generators also provide primary source of power to one half of the FOP lighting.											
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.													

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Venue Management																			
Venue Operations Centre (VOC)	60	1	60	90	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Venue capacity and venue layout.					F					P	
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-											
Assigned Desks	20	1	20	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Space and Storage	18	1	18	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	40	1	40	50	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.					F					P	
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	24	1	24	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	-											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	150	1	150	180	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre	Enclosed space.	Assumes existing space or tent. Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.					F					P	
Workforce																			
Workforce Area	150	1	150	180	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.					F					P	
Check-In Area	96	1	96	-	Area to log-in venue staff and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Area	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	335	1	335	400	The space where workforce meals are served and where workforce can break during their shift.	A location that will provide easy access to all workforce for breaks and meals; will vary according to venue layout/size.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon workforce numbers..					F					P	
END OF DOCUMENT																			

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Accreditation																								
Venue Accreditation Office	60	1	60	150	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space. Enclosed space. May be required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.										P	-					
Day Pass Issue & Problem Resolution Desk	18	1	18	-																				
Work Area	18	1	18	-																				
Manager Desk or Office & Storage	12	1	12	-																				
Waiting Area	12	1	12	-																				
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	-	-	Located in temporary structure. Assumes container/trailer unit or tent.				F						P	-					
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.				F												
Broadcast																								
Broadcast Compound	-	1	-	5000	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements. Located in temporary structure. Assumes container/trailer unit or tent.				J	J					R	IOC					
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.				I	F					G	IOC					
Broadcast Manager Office	12	1	12	-		-	-	-	-															
Work Room, Assigned & Unassigned Desks	48	1	48	-		-	-	-	-															
Technical Operations Centre	60	1	60	150	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.				I	F					R	IOC					
Broadcast Catering	175	1	175	220	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Kitchen & Prep	25	1	25	-		-	-	-	Assumes container unit.															
Buffet Line & Dining	150	1	150	-		-	-	-	Assumes container unit or tent.															
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements. Assumes container units.																
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	-																
Mobile Unit(s)	65	Varies	Varies	-	-	-	-	-																
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters. Assumes container units.																
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	-																
Mobile Unit(s)	65	Varies	Varies	-	-	-	-	-																
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.																
Toilets	1.5	12	18	54	Toilet units designated for broadcast personnel.	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Commentator Control Room	60	1	60	75	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in close proximity to commentator position area.	Enclosed space with incoming television cable.	Assumes existing space or container.				I	F					R	IOC					
Broadcast Information Office (BIO)	25	1	25	30	Space for broadcast management and team meetings.	Located near commentator positions and CCR	Enclosed space.	Assumes existing space or container.				J	J					R	IOC					
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-				J	J					G	IOC					
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J		J	J				R	IOC					
Mixed Zone	35	1	35	300	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Adjacent to the FOP.	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I	I	J		J	I				R	IOC, IF					
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in seating areas with view to FOP and covered when possible.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Outdoor commentator positions should have the option of cover for protection from various weather conditions (e.g. sun, rain). Space for commentator positions may vary according to actual venue/permanent seating setup.				I	J					R	IOC					
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	Located at the rear of the commentator grouping so as not to disrupt the FOP view of other commentator positions.	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	A com-cam position equals 2 adjacent commentator positions.				I	J											

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions	1 position = uses 1 seat in existing seating bowls.	-			I	J			J	I		R	IOC
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval. Space for camera positions may vary according to actual venue/permanent seating setup.	J		I	J			J	J		R	IOC
Camera Position - Other	4	15	60	135	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	Space for camera positions may vary according to actual venue/permanent seating setup.	I		I	J			J	I		R	IOC
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-				J	I		J			G	IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	-				J	I		J			G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in BOH areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.				J	I		J			G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography, in conjunction with OBS and IFs.	J			J	I		J	I		R	IOC
Catering																			
Catering Compound	758	1	758	1100	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity.		I		F						P	
Work Areas - Catering Management	32	1	32	-		Generally, located in Catering Compound or possible the VOC.	Enclosed space.	Assumes existing space or container.											
Organising Committee Catering Manager	-	-	-	-			See Venue Management - VOC.	-											
Catering Contractor	20	1	20	-			-	-											
Beverage Contractor	12	1	12	-	Operational work space(s).		-	-											
Dry, Cold & Ice Storage	38	4	152	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.											
Vehicle Staging	50	1	50	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-											
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-											
Kitchen & Preparation Area	54	1	54	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.											
Uncovered Storage	50	1	50	-	Outdoor storage of material and products.	-	Area only.	-											
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilets should be provided.											
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	-											
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container(s). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity, level of catering activity.		I		F						P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	-											
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	-											
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue catering facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-		I		F						P	

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Ceremonies																			
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-			I	F						P	
Ceremonies Staging	50	1	50	60	For the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule; to coordinate location of podium, procession, and recession route, and location of flagpoles.	Adjacent to or close to FOP.	Consists of coordinator work space with area for secure storage, preparation and dressing area. See below for additional details.	Assumes existing space or container.			I	F						P	
Manager Desk	6	1	6	-	Work space for Manager.	-	-	-											
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.											
Presenters, Medal/Flower staging, Secure medal and flag storage	36	1	36	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.											
Presenter Preparation & Dressing	4	2	8	-	A dressing and preparation area for Presenters.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.												
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	-	Limited use, may be shared with other space. See Sport Presentation.	-											
Awards Podium Storage	25	1	25	30	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	Adjacent to FOP			I	F						P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.	I	J	J				J	G	R	IOC	
Cleaning and Waste																			
Cleaning & Waste Compound	339	1	339	460	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependent upon venue capacity.					F					P	
Vehicle Staging	90	1	90	-	Parking area for collection vehicles which generally remain inside the venue.	-	Area only.	-											
Sorting Area	90	1	90	-	Area for sorting waste.	-	Area only.	-											
Waste & Recycle Containers	15	6	90	-			Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).											
Compactor Unit	25	Varies	Varies	-	Area in front of waste and recycle bins where material is separated for containment.	-	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.											
Equipment Supply & Storage	15	3	45	-	Space for cleaning equipment and paper product.	-	Enclosed space.	Assumes container unit.											
Contractor Office	24	1	24	-	Space for management and workforce staging.	-	Enclosed space.	-											
Doping Control																			
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	-	J	J	J							R	IOC
Waiting Area/Reception	36	1	36	40	Area where athletes check-in and wait prior to testing.	-	-	-											
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).											
Blood Processing Room(s)	15	Varies	Varies	20 (each)	Area where athlete blood samples are provided and sealed	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).											
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer. Wash basin for hand sanitisation.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).											
Office / Storage	12	1	12	15	Work and storage space for Doping Manager.	-	Enclosed space. Secure storage.	-											
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-	I	J	J							R	IOC

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Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.					F					P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of staff pre and post shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large group.	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.					F					P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.					F					P	
Information Desk	-	-	-	-	-	-	-	-											
Lost & Found	-	-	-	-	A holding area for items found in the venue.	-	-	-											
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spectators.	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	Adjacent to Public Information.	-	-					F					P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes 12m away from covered search area.	Total number generally 50% of security screening positions.					F					P	
Stroller Storage	72	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	-	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.					F					P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.					F					P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators					F					P	
Spectator Shade & Shelter	1	Varies	Varies	-	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and event services areas.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.					F					P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-					F					P	
Spectator Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators.	-	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.					F					P	
Hand Wash Stations	1	Varies	Varies	6 (per 20 toilets)	A chemical unit used in the absence of potable water.	-	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.					F					P	

Space <small>(Sub-space(s))</small>	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Finance																				
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I		F						P		
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Generally located inside venue perimeter and outside venue perimeter.	Area only.	Quantity dependent upon venue capacity.		I		F						P		
Language Services																				
Work Area / Desk	28	1	28	35	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre.	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-			J	J			I			G	IOC	
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference needs.	-			J	J			I			G	IOC	
Logistics																				
Logistics Compound	-	1	Varies	800	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access. Secondary Compound Area - an additional compound area may be necessary for staging or storage of equipment that is in close proximity to FOP and/or the finish area.										P		
Logistics Centre	75	1	75	-	-	-	Enclosed space.	Assumes container units or tent.												
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-												
Team Staging/Work Area	40	1	40	-	Space for staging and a work area.	-	-	-												
Secure Storage & Equipment Sign-out	20	1	20	-	Area for storage.	-	Storage for tools.	-												
Warehouse Storage	115	1	115	-	Storage area for furniture, fixtures, and equipment (FF&E).	-	Enclosed space.	Assumes tent												
Storage Yard	100	1	100	-	Outside storage area within compound.	-	Area only.	-												
Vehicle Staging	125	1	125	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-												
Fuel Tank(s)	9	Varies	Varies	25 (each)	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.												
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.												
Material Transfer Area (MTA)	-	1	-	750	An area where packages or other items are delivered when they arrive outside the venue delivery schedule times.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.										G	P	
X-Ray Area	54	1	54	100	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.												

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Look of the Games																			
Work Area and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.										P	
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J					J		R	IOC
National Olympic Committee (NOC) Flags	-	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.			J	J			J		R	IOC	
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and back of locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J				J	G	R,P	IOC, IF
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals.	-											
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH).	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	-		I	J	J				J	G	R	IOC, L
Backdrop - Press Conference Room	2.2 x 6	1	2.2 x 6	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F		I	I				
Medical Services																			
Athlete Medical	76	1	76	125	An area where Medical provides services to athletes competing at the venue.	Located within the accredited Athlete Area.	Enclosed air-conditioned space.	Assumes container or existing space. Located in or near Athlete Compound	J	J	J					J		S	IF
Reception & Waiting	15	1	15	-	Area where athletes check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	4	32	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Physiotherapy Area(s)	8	2	16	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	-											
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J					J		S	IF
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Spectator Medical	65	1	65	120	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed air-conditioned space. 1 per 20,000 spectators	Assumes container unit or existing space.			I	F		I	I			P	
Reception & Waiting	15	1	15	-	Area where spectators check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	15	1	15	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	4	32	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Triage Station	50	1	50	100	Additional space to treat minor medical needs of spectators.	-	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.			I	F		I	I			P	
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.					F	I	I			P	
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Paved, graveled or grass area with fence, barricade or rope enclosure.	-				F	I	I				P	

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Merchandise																				
Office, Cash Room & Work Area	12	1	12	15	An area to manage the retailing of all Olympic merchandise inside the venue.	-	Enclosed space with secure entry.	Assumes container unit or existing space.					F					P		
Storage	15	3	15	45		-	-	Assumes storage containers or existing space.					F						P	
Program Sales Stands/Booths	1	1	1	2		-	Area only.	Units provided by vendor. Quantity and location decided by vendor and OCOG.					F						P	
Merchandise Points of Sale (POS)	6	Varies	Varies	18		Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.	Gross area is per each P.O.S. and includes service area and queue.	I			F						P	
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-		I	J	J						G	R	IOC
Olympic Family Services																				
Olympic Family Lounge	319	1	319	700	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes tent.	I		I	F					I	G	G	IOC
Welcome Desk & Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-	-												
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.	-												
Staff/Volunteer Room & Storage	16	1	16	-	On-call waiting area for Protocol staff and equipment storage.	-	-	-												
Dining & Lounge	190	1	190	-	Area for dining and lounge.	-	-	-												
Preparation/Buffer set-up/Beverage Area	95	1	95	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Staff/Volunteer, Athlete, Media)	-												
Toilets	40	1	40	80	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	6 female, 6 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided.			I	F					I	G	G	IOC
Protocol flags	-	-	-	-	-	-	See Look of the Games	-			J	J						J	R	IOC
Press Operations																				
Venue Media Centre (VMC)	1100	1	1100	1400	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Confer Welcome desk at the entrance, for information distribution.	Close proximity to Press Tribune, Press Conference room, and Mixed Zone area.	Enclosed space for 300 press and 60 photographers.	Assumes tent.				F						R	IOC	
Reception & Information Desk	30	1	30	-	Equipment storage.	-	-	-												
Storage	9	1	9	-	Operational work space.	-	-	-												
Press Manager Office	12	1	12	-	Operational work space.	-	-	-												
Photo Manager Office	12	1	12	-	Operational work space.	-	-	-												
Olympic News Service (ONS) Work Room or Area	45	1	45	-	Operational work space.	-	Enclosed space.	-												
Info Stations	36	1	36	-	Computer stations and printers.	-	-	-												
Press Work Room or Area	450	1	450	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.												
Photo Work Room or Area	125	1	125	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.	-												
Photographers Check-in & Photo Bib Distribution	18	1	18	-	Area where photographers register and receive/return photo bibs.	-	-	-												
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.												
Lounge/Catering Prep	300	1	300	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-	-												
Toilets	1.5	12	18	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided												

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Press Conference Room	240	1	240	400	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I			F						R	IOC
Seating Area	180	1	180	-	An area for accredited press.	-	Seats and standing room.	-											
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3.6 m table, 8 chairs & step and repeat backdrop.	-											
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-											
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-											
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-				F			I	I			
Mixed Zone	25 linear mtrs.	1	25 linear mtrs.	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I		I	F						R	IOC,IF
Press Tribune	-	-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	-	Tabled seating is fitted out with telephones, television monitors, power and other press facilities (indoor venues). For outdoor venues, these services will exist in VMC.	-											
Press Tabletop Seating	Varies	Varies	Varies	-	-	Easy access from Venue Media Centre and direct access if possible to Mixed Zone.	<u>In an existing stadium or seating area:</u> 1 seat wide (folding chairs at 60 cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50 cm deep tabletop per position, each position = 2 stadium seats. <u>Temporary Stands:</u> 1 seat (folding chairs at 60 cm spacing) x 2 rows deep of proposed seating system (normally 150 cm-170 cm deep).	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.			I	F					R	IOC,IF	
Press Seating (non-tabled)	Varies	Varies	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.			I	F						R	IOC,IF
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided											
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-											
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	Located at both ends of the court.	Approx. 160 photographers expected at peak periods. 60cm wide x 90cm deep per position, multi-row areas require 60cm riser per row.	Power, Wireless and data cabling needed to photo positions on FOP.	J		I	J						R	IOC, IF
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Normal seating areas.	-	Seating areas are generally not applicable for outdoor venues.	I		I	F						G	IOC
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Security																				
Security Command Centre	150	1	150	180	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.											P	
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-												
Security Work Area	15	1	15	-	An area for additional security agencies.	-	-	-												
CCTV Surveillance & Video Desk	18	1	18	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-												
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.												
Radio Dispatch & Monitoring	18	1	18	-	An area for the monitoring and control of security communication and the distribution/return of radios.	-	-	-												
Work Room	60	1	60	-	Open plan of work stations designated for security personnel.	-	-	-												
Secure Storage	12	1	12	-	An area for Security equipment storage.	-	-	-												
Dog Cage(s)	4	Varies	Varies	8 (each)	Holding area for security dogs.	-	Area only for enclosed portable units (e.g. cages)	Dependent on Host City / Country / Risk Assessment											F	
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-					J	J						P
Briefing and Break Area / Staging Area	220	1	220	250	Area for briefing staff before and after shifts.	-	Enclosed space.	Assumes tent.												
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.					J	J						P
Vehicle Screening & Sanitisation Area	880	1	880	1100	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.												P
Vehicle Queue	300	1	300	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-												
Oversized Vehicle Queue	210	1	210	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-												
Vehicle Sanitisation & Wanding Areas	250	1	250	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.												
Oversized Vehicle (Truck & Bus) Sanitization	70	1	70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-												
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.												
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Staff staging and break enclosed space.	-												
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the Venue Secure Perimeter and/or venue screening area for constituents.	-	-												
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-												P
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-	I											P
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-												P
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.												P

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the Venue Secure Perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	-				F					G	P	
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the Venue Secure Perimeter.	Net area for each screening position will accommodate: 4 Wanding Stations, OR - 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue.											
Athlete / Team	18	1-2	18-36	36-72	-	-	Screening and search area is covered.	-	I			F							P
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	-	-	Entrance can be combined with Athlete and/or Olympic Family.	I			F							P
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	-	-	Entrance can be combined with TO, ENG and/or Press.	I	I	F								P
Broadcast	18	1-2	18-36	45-90	-	-	Screening and search area is covered. Direct access from outside venue perimeter into Broadcast Compound.	Search area is covered. Direct access from outside venue perimeter into Broadcast Compound.				F			I				R IOC
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	-	-	-											
Press and Photographer	18	1-2	18-36	36-72	-	Located in close proximity if possible to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays. Entry should be exclusive to Media (Press and Broadcast) preferably leading directly into Press areas.	-				F							R IOC
Staff, Volunteer, Contractor & Vendor	18	2-3	36-54	90-135	-	-	-	-				F							G IOC
Spectator / Sponsors	18	Varies	Varies	54	-	-	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-				F							P
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.											
Exception Gate	-	-	-	-	Access gate for designated accredited personnel.	Located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.											
X-ray of bags	54	Varies	Varies	100 (each)	Device for screening bags/equipment coming into the venue.	-	-	-				I	F						G P
Venue Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	-				F	I						P
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	Located at each security screening area, 1m to 3m width, sometimes used as a secondary service vehicle exit point.	-											
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m in width, number varies per concourse design.	-											
Staff, Volunteer, Contractor & Vendor	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	-											
Sponsor Services																			
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.				I	F						P

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Sport Operations																			
Competition Management	60	1	60	90	A work area for Sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located close to Athlete Area and FOP; may be co-located within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space.	I				F					P	
Competition Manager & Asst. Mngr. Desks	12	1	12	-	An area for the Manager and Assistant(s) Manager.	-	-	-											
Assigned Work Area	20	1	20	-	Open plan of work stations designated for Sport personnel.	-	-	-											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Area	18	1	18	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-											
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-											
Sport Information	40	1	40	50	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located in Athlete Area.	Enclosed space with waiting area and seating.	Includes: information boards, pigeon holes, Info & Help desk, work area, info terminal stations & storage.	J			J						R	IF
Athlete Lounge	50	1	50	90	An area where athletes can relax at the venue while not training or competing.	Located in Athlete Area.	-	Includes: seating area, lounge, Info & Help Desk, info terminal stations.	J			J						R	IF
Athlete Dressing, Locker, Shower, Toilet	50	4	200	300	Change-room facilities to accommodate athletes at the venue during competition and training.	Located in Athlete Area.	Enclosed space. Separate male and female facilities.	Assumes container units or existing space.	J			J						R	IF
IF & Sport Meeting Room	30	1	30	45	Meeting facility at the venue for the International Federation and Competition Management.	Located in close proximity to the IF Area and Competition Management area.	Enclosed space.	Shared meeting room area between IF & Sport to serve various meeting needs.	J			J						G	IF
Sport Equipment Storage	80	1	80	100	Storage for athlete/team sport equipment.	Located adjacent to FOP or within close proximity.	-	Assumes container units or existing space.	J			J	I					R	IF
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	Reference should be made to FIBA guidelines for all FOP technical requirements.	All basketball equipment (backstop units, electronic scoreboards, 24-second clocks and wooden flooring) must be approved by FIBA.											
Playing Surface Dimensions or Area	28x15	1	420	-	-	-	Refer to FIBA requirements.	Total area required may be greater than playing surface dimension.	F			I						R	IF
Total Required Area Dimensions or Area	34x20	1	680	-	-	-	Refer to FIBA requirements.	-	F			I						R	IF
Vertical Height Requirement	10m	1	10m	-	-	-	Refer to FIBA requirements.	-											
Surface	-	-	-	-	-	-	Refer to FIBA requirements.	-	J			J	I					R	IF
Orientation	-	-	-	-	Orientation of FOP area.	-	Refer to FIBA requirements.	-	J			J	I					R	IF
Sports Lighting - Technical	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	-	-	-											
Warm-up Surface Dimensions or Area	-	-	-	-	-	Adjacent to FOP (close proximity).	In addition to the FOP, the athletes need a warm-up area consisting of at least 2 full size basketball courts.	Total area required may be greater than playing surface dimension.	J			J			I	J		R	IF
Surface	-	-	-	-	-	-	Refer to FIBA requirements.	-	J		J	I			J			R	IF
Orientation	-	-	-	-	Orientation of warm-up area.	-	Refer to FIBA requirements.	-	I		F	I						R	IF
Athlete / Team Seating	-	-	-	-	A designated seating area for athletes.	-	-	-	J	I	J				J				
Same Sport	-	Varies	-	-	-	-	-	-	J	I	J				I			R	IOC,IF
Different Sport	-	Varies	-	-	-	-	-	-	I	I	F				I			R	IOC
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	May be required for Sport Staff use. Quantity varies according to athlete numbers.					F					P	
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	Required if FOP is not located near Athlete Area.	Assumes temporary units. Quantity varies according to athlete numbers.					F					P	
International Federation																			
IF Area	70	1	70	80	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located in close proximity to accredited seating areas.	Enclosed space.	Assumes container units or existing space.	I		I	F						R	IF
IF President's Office	15	1	15	-	-	-	-	-	I		I	F						R	IF
IF Secretary - General/Executive Director's Office	15	1	15	-	-	-	-	-	I		F							G	IF
Reception, Secretariat, Waiting & Work Area	40	1	40	-	-	-	-	-	I		F							G	IF
Jury and Appeals Room	30	1	30	35	A meeting area used by FIBA commissioners and in the case of an appeal.	-	Enclosed space.	Assumes container units or existing space.	I		F							R	IF
Officials Lounge	30	1	30	35	A rest area for officials.	-	Enclosed space.	Assumes container units or existing space.	J		J							G	IF
Officials Locker Room, Shower, Toilet	15	4	60	80	A change area for officials.	-	Male and female locker areas required.		I		F							R	IF
Technical Delegates Office & Work Area	15	1	15	20	Office area for Technical Delegates.	-	Enclosed space. 2 Technical Delegates.		I	I	F				I			R	IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I	J	J				J			R	IOC,IF
Sport Presentation																			
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.											
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-				F						P	
Announcer Position	3	1	3	-	-	-	-	-				F						P	
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space. Staff Work, Green Room, Entertainer Staging and Dressing and Prop Storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.											

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Technology Operations																			
Technology Help Desk	20	1	20	-	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium Security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support staff & manager.											P	
Venue Technology Operations (VTO)	25	1	25	-	OCOG Technology Operations area. Operational work space for entire Venue Technology team, including Partners & contractors.	Adjacent to or within Venue Operations Centre (VOC).	Medium Security - lockable room. Air-conditioned as office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.										G	P	
OCOG Venue Technology Work Area	-	1	-	-	Work space for Venue Technology Manager, Assistant Venue Technology Manager, Technology Staffing Manager and associated volunteer(s).	-	-	Work space size may be dependent upon workforce per shift.											
AV Contractor Work Area	-	1	-	-	Work space for AV contractors/Technicians.	-	-	Work space size may be dependent upon workforce per shift.											
IT Provider Work Area	-	1	-	-	Work space for IT staff and "home base" for IT volunteers.	-	-	Work space size may be dependent upon workforce per shift.											
Reprographic Provider Work Area	-	1	-	-	Work space for reprographic contractors/technicians	-	-	Work space size may be dependent upon workforce per shift.											
Mobile Phone Provider Work Area	-	1	-	-	Workspace for mobile phone provider.	-	-	Work space size may be dependent upon workforce per shift. Charging area for Venue Operations workforce phones may be required.											
Wired Communications Provider Work Area	-	1	-	-	Work space for Wired Communications contractors/technicians.	-	-	Work space size may be dependent upon workforce per shift.											
Timing & Scoring/OVR Provider Work Area	-	1	-	-	Work space for OVR/Timing and Scoring contractors/technicians.	-	-	May not be required if adequate working space is allocated in OVR room.											
Radio Distribution Room (RDR)	15	1	15	-	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E & workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).	I			F						P	
Information Technology																			
Computer Equipment Room (CER)	20	1	20	-	Area for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.		I			F				G	P	
Data Local Area Network (LAN) Management Room & Store	25	1	25	-	LAN monitoring room and associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational staff & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces.					F				G	P	

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Telecommunication & Audio Visual																			
Telecomm. Equipment Room (TER) Primary	36	1	36	-	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	Raised flooring is preferable for cabling distribution, but not essential.		I		F							P
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.		I		F							P
Telecomm. Operations & Store	25	1	25	-	Operational space for Telecommunications technical staff and associated storage for spare parts.	Adjacent to TER.	As TER with adequate FF&E to support operational staff & storage.	If located adjacent to TER, power supply boards, UPS units & A/C services can be common for both spaces.		I		F							P
Audio Control Positions	-	-	-	-	-	-	-	-				F					G		P
Venue	4	1	4	-	Area within Sport Production, location for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Production. Can be on FOP, in stands or in a booth with view to FOP.	High Security. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	Storage for country anthems.											
Press Conference	4	1	4	-	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), air-conditioned, waterproof. Work space & FF&E for operator.	PA system may also be used for Competition Draw if draw is held in Press Conference room.											
Warm-Up Area	0	0	0	-	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Within Warm-up area for Athletes.	Standard/mains power & FF&E.	-											
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-											
Workforce Break/Briefing	2	Varies	Varies	-	Area within Staff Break/Training room where audio control equipment is installed to facilitate meetings/training of large numbers of staff.	Workforce break/dining areas.	Standard/mains power & FF&E.	-											
Video Board Control	4	1	4	-	Area of video control for video board or video projection system. Operations integral with those of Sport Production.	Ideally with Sport Production. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	Requirement based on deployment of Videoboard to ATH (mobile board).				F					G		P
Wired Communications Control	2	1	2	-	Area of wired communications master control station and support technician. System essential to operations of both Sport Production and Results/FOP management.	Near to or within Sport Production is preferable. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location if located outdoors. Good cable access to FOP, OVR Room, Sport Production, Broadcast Graphics Room & Results Printing required. Workspace & FF&E for one technician, control equipment, spare parts and containers/boxes for equipment.	-				F					G		P
Temporary PA equipment Room	2 min	1	2 min	-	Temporary location for installation of PA active equipment (amplifiers etc) for venue PA system.	In existing PA equipment room, if applicable. May be located under venue seating/tribunes if existing room not available.	High Security. Fully redundant power (mains & standby generator) to equipment. Good cable access to speaker location and PA/Audio Control position required. Equipment installed in racks. Each rack set is 1000H x 600W x 600 D maximum.	Number of racks will depend on size of system deployed. Generally venues with large geographic area (outdoor) require larger installation and therefore more racks of amplifier equipment.				F							P

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Timing, Scoring, & Results Operations																			
Results Data Entry Position	-	-	-	-	Area(s) for event results and/or statistics data entry during competition.	As noted below	High Security. Fully redundant power (mains & generator) with UPS to all results data entry equipment/workstations. Space & FF&E for all data entry personnel & results management staff.	Where data entry occurs outdoors, adequate weather (rain/sun) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
Field of Play - Statistics Tables	2	2	4	-	Areas/positions for statistics calling & data entry into OVR system.	Positions located at either end of FOP with sport statisticians.	Cable pathway to Technical Table.	May occur as a position on the FOP, or in a room with a view to the FOP.											
Field of Play - Technical Table	3	1	3	-	Area/position for results data entry.	Position located at Technical Table on FOP with sport results & sport officials.	Cable pathway to Statistics Tables, Official Table & OVR Room.	Generally occurs Back of House, in sport location.											
Timing and Scoring Position					Area(s) for event timing & scoring personnel & equipment during competition.	Sport Specific. However, all locations must have view to FOP	High Security. Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards & OVR room. Space & FF&E for operators and equipment.	-	I	I	I	F						R	IF, Swatch
Field of Play - Official Table	2	1	2	-	-	Position located on FOP with sport officials.	Cable pathway to Technical Table, sport specific scoreboards & shot clock.	-											
On Venue Results (OVR)	75	1	75	-	Area is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	Easy access to FOP critical for technical and results staff.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Space & FF&E required for high density of computer workstations, racks for servers and working space for technicians, operators and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or venues where two sports occur concurrently will require more space for additional OVR equipment.	I	F								P	
OVR Provider Work Area	25	1	25	-	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO/CIS/PRD etc).	Ideally adjacent to IT provider work area.	-	-											
IT Provider Work Area	25	1	25	-	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-											
Scoreboard Control	4	1	4	-	Area of scoreboard control operations. Operations integral with those of Sport Production, data provided from OVR System. Space for both Control and Interface workstations and 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.	I	F							G	P	
Scoreboard Control	2	1	2	-	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator and workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-											
Scoreboard Interface	2	1	2	-	Area for interface equipment (PC workstations) linking OVR system and Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-											

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Results Printing (PRD)	80	1	80	-	Area for hard copy results production and distribution. Location of high intensity work involving many staff preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area and position for the Print Distribution Workstation (IDS interface) equipment and operator.	Near/adjacent to Press Workroom, access to Press Tribunes, Broadcast Commentary Positions, Sport Information Desk, Doping & Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specification. Space & FF&E required for equipment and operational staff as well as space for 1 x pallet of paper to support print/copy operations.		I	I	I	F						R	IF, Swatch
TV Graphics Interface	3	1	3	-	Area where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operators & good cable access to OVR room.					I		F			G	P	
Technology Storage																			
Technology General Storage	15	1	15	-	Area for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F						G	P
IT Bulk Storage	30	1	30	-	Storage area for all spare IT equipment & associated boxes/containers.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to IT provider at all times.				F						G	P
Reprographic Primary Storage Area	12	1	12	-	Primary storage/technical area in-venue for reprographic provider. Storage for spare parts, additional devices and consumables serving primarily Results Printing Operations.	In venue location adjacent to, or within Results Printing Room.	High Security - lockable. Standard office environment with standard power. Workspace & FF&E for one technician.		I		F							G	P
Reprographic Bulk Storage Area	-	1	-	-	Storage area for bulk paper allocated to venue (multiple pallets).	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of paper required to support venue operations.				F						G	P
Timing and Scoring Workshop	10	1	10	-	In venue storage and workshop for timing equipment, spare parts and small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.		I		F							G	P
Timing & Scoring Bulk Store	30	1	30	-	Storage area for large crates and containers used for scoreboards and bulk equipment. Must be accessible to OVR provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of Timing & Scoring equipment deployed to venue. May be combined with Timing & Scoring Workshop if location & size of space meet requirements for venue.	I		F							G	P
Audio Visual Bulk Store	30	1	30	-	Storage area for large crates and containers used for video boards, PA equipment and TV boxes. Must be accessible to Video/Public address provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of audio/video equipment deployed to venue.				F						G	P
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required to distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closet. CCFs are to be installed in locations that allow for easy access for service technicians and easy cable access from TER room and to user device locations.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Work Room.	High Security - lockable & weatherproof. May require fan or dedicated A/C depending upon room location and / or configuration. Fully redundant power (mains & generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.	I		F								P
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of Power from Data/Voice and Audio Visual Cabling	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in a manner which allows for easy access and repair/replacement. Legacy installations are to be installed as permanent while temporary (overlay) should be installed using methods which are easily installed & removed minimising potential damage to existing venue.				F							P

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Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.	-	-	"											
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.	-	-	"											
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.	-	-	"											
CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	"											
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	"											
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-											
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-											
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-											
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-											
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-											

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Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.		I		F						P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabbling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.											
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to Video Control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.		I		F						P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the videoboard. Required for outdoor venues where the videoboards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabbling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each videoboard.											
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Production on a sport specific basis.	Adequate power, cable pathways to/from boards to Video Control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.		I		F					G	P	
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to/from audio/PA amplification system and/or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabbling) required to suspend PA speakers from venue ceiling structure.	-	-	-											
Mobile Phone Infrastructure (antenna)	-	Varies	-	-	Infrastructure required to support installation of additional radio antenna and mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to / from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.		I		F					G	P	

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Ticketing																			
Ticket Box Office	50	1	50	125	An area at the venue where Olympic tickets are sold.	Adjacent to the secure perimeter; near the spectator entry point of the venue	Gross area includes internal & external queue.	Assumes container unit with accessible access to internal and external service window. Dependent upon spectator capacity, venue layout and footprint and spectator access point locations.					F					P	
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	20	1	20	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	8 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s)	20	1	20	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	8 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	36	1	36	72	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.					F					P	
Driver Staging	110	1	110	200	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.					F					P	
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside Venue Secure Perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	30	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-					F					P	
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from each Host City, based on vehicle / bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J						I	P	
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J						I	P	
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F						P	
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.				F					I	G	IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.				F						G	IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.	I		F							G	IOC
Spectator and Staff Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				F						P	
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.	I		F							P	
Accessible	-	-	-	-	-	-	-	Part of Spectator total.				F						P	
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Surface areas paved or gravel.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have a drop-off in close proximity to accredited entry point and then driver will park.			I	F						P	
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.				F					I	P	
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.				F					I	P	
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-			J	J						P	
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes circulation.				F						P	
Emergency Services	-	-	-	50 (each)	-	Generally located inside the Secure Venue Perimeter.	-	Includes circulation.				F						P	

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Venue Development																			
Site Management Compound	693	1	693	900	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Dependent upon venue footprint, extent of temporary works, and number of contractors.										P	
Site Management Area	75	1	75	-			Enclosed space.												
Site Manager & Assistant Site Manager(s) Work Area	12	1	12	-	Work and meeting area for the Site Manager and Assistant Site Manager.														
Site Administration Desk & Work Area	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.														
Response Team & Vendor Staging	30	1	30	-	On-site permanent and temporary facilities for specialty staff and general labor crew to be on-call.														
Secure Storage - Site Management	15	1	15	-	Area for storage.														
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.		Enclosed space. Area for office, staging and a secure storage area.	Assumes container units or existing space. Contractor usually installs container units at their own cost.											
Sign/Look Staging, Work Space/Secure Storage	60	1	60	-	Area for holding, sorting, repairing of event signs, look materials and tools.			Assumes container unit or existing space.											
Material Warehouse/Construction Work Space	115	1	115	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.		Enclosed space.	Assumes tent or canopy with 2 side walls. Area for carpentry, painting and general construction. Storage for non-weather proof materials.											
Vendor Secure Storage	90	1	90	-	Area for containers, usually provided by the various temporary construction sub-contractors.		Enclosed space.	Assumes container units or existing space.											
Materials Staging Area	70	1	70	-	Area for the off-loading and loading of bulk construction materials.		Area only.												
Exterior Storage Area	70	1	70	-	Outdoor storage of material and products.		Area only.	Weatherproof area for large and bulk materials.											
Vehicle Staging	150	1	150	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.		Area only.	Service, Repair & Specialty vehicles											
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	Located in BOH compound areas.		Assumes temporary units. Accessible toilet facilities should be provided.											
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.		I		F						P	
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.			I		F						P	
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.											P
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.		Generators also provide primary source of power to one half of the FOP lighting.											
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.													

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Venue Management																			
Venue Operations Centre (VOC)	75	1	75	115	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Venue capacity and venue layout.					F					P	
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-											
Assigned Desks	24	1	24	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	15	1	15	-	Shared work stations.	-	-	-											
Work Space and Storage	24	1	24	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	50	1	50	60	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.					F					P	
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	30	1	30	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	-											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	200	1	200	240	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre	Enclosed space.	Assumes existing space or tent. Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.					F					P	
Workforce																			
Workforce Area	180	1	180	220	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.					F					P	
Check-In Area	115	1	115	-	Area to log-in venue staff and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Area	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	500	1	500	600	The space where workforce meals are served and where workforce can break during their shift.	A location that will provide easy access to all workforce for breaks and meals; will vary according to venue layout/size.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon workforce numbers..					F					P	
END OF DOCUMENT																			

Space (Sub-spaces)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation					
Accreditation																								
Venue Accreditation Office	50	1	50	125	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space. Enclosed space. May be required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.											P	-				
Day Pass Issue & Problem Resolution Desk	15	1	15	-																				
Work Area	15	1	15	-																				
Manager Desk or Office & Storage	12	1	12	-																				
Waiting Area	8	1	8	-																				
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	-	-	Located in temporary structure. Assumes container/trailer unit or tent.											P	-				
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Broadcast																								
Broadcast Compound	-	1	-	4500	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, as close as possible to the Competition facility or tribune areas and field of play areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements. Located in temporary structure.											R	IOC				
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.												G	IOC			
Broadcast Manager Office	12	1	12	-		-	-	-	-															
Work Room, Assigned & Unassigned Desks	48	1	48	-		-	-	-	-															
Technical Operations Centre	40	1	40	100	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.												R	IOC			
Broadcast Catering	140	1	140	180	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Kitchen & Prep	20	1	20	-		-	-	-	Assumes container unit.															
Buffet Line & Dining	120	1	120	-		-	-	-	Assumes container unit or tent.															
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements.																
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Assumes container units.																
Mobile Unit(s)	65	Varies	Varies	-	-	-	-	-																
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters.																
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Assumes container units.																
Mobile Unit(s)	65	Varies	Varies	-	-	-	-	-																
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.																
Toilets	1.5	8	12	36	Toilet units designated for broadcast personnel.	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Secondary Broadcast Compound	-	-	-	-	Serves as a secondary unit to the main compound to house various broadcast technical needs that are required for Broadcast to cover the full competition FOP or area.	Located adjacent to FOP.	Enclosed space with incoming television cable.	Assumes existing space or container.												R	IOC			
Toilets	1.5	2	3		Toilet units designated for broadcast personnel.	-	Enclosed space.	Assumes existing space or container.																
Commentator Control Room	60	1	60	75	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in close proximity to commentator position area	See Venue Technology, Timing/Results/Scoring.	-												R	IOC			
Broadcast Information Office (BIO)	20	1	20	25	Space for broadcast management and team meetings.	Located near commentator positions and CCR	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.												R	IOC			
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-												G	IOC			
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J			J	J					R	IOC			
Mixed Zone	20 linear mtrs.	1	20 linear mtrs.	120	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Adjacent to the FOP	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths; the mixed zone is designed according to IOC rules.	-	I	I	J			J	I					R	IOC, IF			

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in seating areas with view to FOP and covered when possible.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Outdoor commentator positions should have the option of cover for protection from various weather conditions (e.g. sun, rain). Space for commentator positions may vary according to actual venue/permanent seating setup.			I	J			J	I		R	IOC	
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	Located at the rear of the commentator grouping so as not to disrupt the FOP view of other commentator positions.	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	A com-cam position equals 2 adjacent commentator positions.			I	J			J	I				
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions	1 position = uses 1 seat in existing seating bowls.				I	J			J	I		R	IOC	
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval. Space for camera positions may vary according to actual venue/permanent seating setup.	J		I	J			J	J		R	IOC	
Camera Position - Other	4	30	120	270	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	Space for camera positions may vary according to actual venue/permanent seating setup.	I		I	J			J	I		R	IOC	
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-							J	I		J	G	IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	-							J	I		J	G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in BOH areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.							J	I		J	G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography, in conjunction with OBS and IFs.	J						J	I		J	R	IOC
Catering																				
Catering Compound	565	1	565	850	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity.	Compound may be split into operations and storage locations. Dependent upon venue capacity, level of catering activity.		I			F						P	
Work Areas - Catering Management	28	1	28	-		Enclosed space.	Assumes existing space or container.	Assumes existing space or container.												
Organising Committee Catering Manager	-	-	-	-		See Venue Management - VOC.	-	-												
Catering Contractor	16	1	16	-		-	-	-												
Beverage Contractor	12	1	12	-	Operational work space(s).	-	-	-												
Dry, Cold & Ice Storage	38	6	228	-	Storage for food and beverage items.	Enclosed space.	Power, generally container and/or trailer units.	Assumes truck containers.												
Vehicle Staging	90	1	90	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-												
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-												
Kitchen & Preparation Area	80	1	80	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.												
Uncovered Storage	75	1	75	-	Outdoor storage of material and products.	-	Area only.	-												
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilets should be provided.												
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	-												
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container(s). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity, level of catering activity.		I			F						P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	-												
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	-												
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue catering facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-		I			F						P	

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Ceremonies																			
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-			I	F						P	
Ceremonies Staging	36	1	36	45	For the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule; to coordinate location of podium, procession, and recession route, and location of flagpoles.	Adjacent to or close to FOP.	Consists of coordinator work space with area for anthem storage, secure storage, preparation and dressing area; see below for additional details.	Assumes existing space or container.			I	F						P	
Manager Desk	6	1	6	-	Work space for Manager.	-	-	-											
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.											
Presenters, Medal/Flower staging, Secure medal and flag storage	22	1	22	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.											
Presenter Preparation & Dressing	4	2	8	-	A dressing and preparation area for Presenters.	In close proximity to FOP.	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-											
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	In close proximity to FOP.	Limited use, may be shared with other space. See Sport Presentation.	-											
Awards Podium Storage	12	1	12	15	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	Adjacent to FOP.			I	F						P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.	I	J	J					J	G	R	IOC
Cleaning and Waste																			
Cleaning & Waste Compound	252	1	252	350	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependent upon venue capacity.					F					P	
Vehicle Staging	72	1	72	-	Parking area for collection vehicles which generally remain inside the venue.	-	Area only.	-											
Sorting Area	72	1	72	-	Area for sorting waste.	-	Area only.	-											
Waste & Recycle Containers	15	4	60	-	-	-	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).											
Compactor Unit	25	Varies	Varies	-	Area in front of waste and recycle bins where material is separated for containment.	-	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.											
Equipment Supply & Storage	15	2	30	-	Space for cleaning equipment and paper product.	-	Enclosed space.	Assumes container unit.											
Contractor Office	18	1	18	-	Space for management and workforce staging.	-	Enclosed space.	-											
Doping Control																			
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	-	J	J	J							R	IOC
Waiting Area/Reception	26	1	26	30	Area where athletes check-in and wait prior to testing.	-	-	-											
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).											
Blood Processing Room(s)	15	Varies	Varies	20 (each)	Area where athlete blood samples are provided and sealed	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).											
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer. Wash basin for hand sanitisation.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).											
Office / Storage	12	1	12	15	Work and storage space for Doping Manager.	-	Enclosed space. Secure storage.	-											
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-	I	J	J							R	IOC

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.										P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of staff pre and post shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large group.	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.										P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.										P	
Information Desk	-	-	-	-	-	-	-	-											
Lost & Found	-	-	-	-	-	-	-	-											
Assisted Listening Device Rental	-	-	-	-	-	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	Adjacent to Public Information.	-	-										P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes 12m away from covered search area.	Total number generally 50% of security screening positions.										P	
Stroller Storage	72	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	-	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.										P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.										P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators										P	
Spectator Shade & Shelter	1	Varies	Varies	-	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and event services areas.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.										P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-										P	
Spectator Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators.	-	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.										P	
Hand Wash Stations	1	Varies	Varies	6 (per 20 toilets)	A chemical unit used in the absence of potable water.	-	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.										P	

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Finance																			
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I		F						P	
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Generally located inside venue perimeter and outside venue perimeter.	Area only.	Quantity dependent upon venue capacity.		I		F						P	
Language Services																			
Work Area / Desk	20	1	20	25	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre.	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-			J	J			I			G	IOC
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference needs.	-			J	J			I			G	IOC
Logistics																			
Logistics Compound	-	1	Varies	650	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access. Secondary Compound Area - an additional compound area may be necessary for staging or storage of equipment that is in close proximity to FOP and/or the finish area.										P	
Logistics Centre	60	1	60	-	-	-	Enclosed space.	Assumes container units or tent.											
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-											
Team Staging/Work Area	33	1	33	-	Space for staging and a work area.	-	-	-											
Secure Storage & Equipment Sign-out	15	1	15	-	Area for storage.	-	Storage for tools.	-											
Warehouse Storage	90	1	90	-	Storage area for furniture, fixtures, and equipment (FF&E).	-	Enclosed space.	Assumes tent											
Storage Yard	75	1	75	-	Outside storage area within compound.	-	Area only.	-											
Vehicle Staging	100	1	100	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-											
Fuel Tank(s)	9	Varies	Varies	25 (each)	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.											
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.											
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.											
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.											
Material Transfer Area (MTA)	-	1	-	575	An area where packages or other items are delivered when they arrive outside the venue delivery schedule times.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.										G	P
X-Ray Area	36	1	36	72	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.											

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Look of the Games																			
Work Area and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.										P	
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J					J		R	IOC
National Olympic Committee (NOC) Flags	-	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.			J	J				J		R	IOC
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and back of locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J				J	G	R,P	IOC, IF
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals.	-											
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH).	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	-		I	J	J				J	G	R	IOC, L
Backdrop - Press Conference Room	2.2 x 6	1	2.2 x 6	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F		I	I				
Medical Services																			
Athlete Medical	65	1	65	100	An area where Medical provides services to athletes competing at the venue.	Located within the accredited Athlete Area.	Enclosed air-conditioned space.	Assumes container or existing space. Located in or near Athlete Compound	J	J	J					J		S	IF
Reception & Waiting	12	1	12	-	Area where athletes check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Physiotherapy Area(s)	8	2	16	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Athlete Massage Area	30	1	30	40	Area where athlete massage occurs.	Located within the accredited Athlete Area.	-	-	J	J	J					J		S	IF
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J					J		S	IF
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.											
Spectator Medical	50	1	50	100	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed air-conditioned space. 1 per 20,000 spectators	Assumes container unit or existing space.			I	F	I	I				P	
Reception & Waiting	12	1	12	-	Area where spectators check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	12	1	12	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Triage Station	50	1	50	100	Additional space to treat minor medical needs of spectators.	-	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.			I	F	I	I				P	
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.				F	I	I				P	
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Paved, graveled or grass area with fence, barricade or rope enclosure.	-				F	I	I				P	

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Merchandise																				
Office, Cash Room & Work Area	12	1	12	15	An area to manage the retailing of all Olympic merchandise inside the venue.	-	Enclosed space with secure entry.	Assumes container unit or existing space.					F					P		
Storage	15	3	15	45		-	-	Assumes storage containers or existing space.					F						P	
Program Sales Stands/Booths	1	1	1	2		-	Area only.	Units provided by vendor. Quantity and location decided by vendor and OCOG.					F						P	
Merchandise Points of Sale (POS)	6	Varies	Varies	18		Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.	Gross area is per each P.O.S. and includes service area and queue.		I			F						P	
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-		I	J	J						G	R	IOC
Olympic Family Services																				
Olympic Family Lounge	319	1	319	700	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes tent.	I		I	F					I	G	G	IOC
Welcome Desk & Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-	-												
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.	-												
Staff/Volunteer Room & Storage	16	1	-	-	On-call waiting area for Protocol staff and equipment storage.	-	-	-												
Dining & Lounge	190	1	-	-	Area for dining and lounge.	-	-	-												
Preparation/Buffer set-up/Beverage Area	95	1	-	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Staff/Volunteer, Athlete, Media)	-												
Toilets	40	1	40	80	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	4 female, 4 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided.			I	F					I	G	G	IOC
Protocol flags	-	-	-	-	-	-	See Look of the Games	-			J	J						J	R	IOC
Press Operations																				
Venue Media Centre (VMC)	660	1	660	860	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Confer Welcome desk at the entrance, for information distribution.	Close proximity to Press Tribune, Press Conference room, and Mixed Zone area.	Enclosed space for 180 press and 40 photographers.	Assumes tent.				F						R	IOC	
Reception & Information Desk	24	1	24	-	Equipment storage.	-	-	-												
Storage	6	1	6	-	Operational work space.	-	-	-												
Press Manager Office	12	1	12	-	Operational work space.	-	-	-												
Photo Manager Office	12	1	12	-	Operational work space.	-	-	-												
Olympic News Service (ONS) Work Room or Area	35	1	35	-	Operational work space.	-	Enclosed space.	-												
Info Stations	28	1	28	-	Computer stations and printers.	-	-	-												
Press Work Room or Area	280	1	280	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.												
Photo Work Room or Area	70	1	70	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.	-												
Photographers Check-in & Photo Bib Distribution	12	1	12	-	Area where photographers register and receive/return photo bibs.	-	-	-												
Locker Area	1.5	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.												
Lounge/Catering Prep	100	1	100	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-	-												
Toilets	1.5	8	12	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided												

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Press Conference Room	120	1	120	250	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I			F						R	IOC
Seating Area	90	1	90	-	An area for accredited press.	-	Seats and standing room.	-											
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3.6 m table, 8 chairs & step and repeat backdrop.	-											
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-											
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-											
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-				F			I	I			
Mixed Zone	25 linear mtrs.	1	25 linear mtrs.	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I		I	F						R	IOC,IF
Press Tribune	-	-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	-	Tabled seating is fitted out with telephones, television monitors, power and other press facilities (indoor venues). For outdoor venues, these services will exist in VMC.	-											
Press Tabletop Seating	Varies	Varies	Varies	-	-	Easy access from Venue Media Centre and direct access if possible to Mixed Zone.	<u>In an existing stadium or seating area:</u> 1 seat wide (folding chairs at 60 cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50 cm deep tabletop per position, each position = 2 stadium seats. <u>Temporary Stands:</u> 1 seat (folding chairs at 60 cm spacing) x 2 rows deep of proposed seating system (normally 150 cm-170 cm deep).	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.			I	F					R	IOC,IF	
Press Seating (non-tabled)	Varies	Varies	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.			I	F						R	IOC,IF
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided											
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-											
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	Pool photo positions located on the FOP at ringside.	Approx. 80 - 100 photographers expected at peak finals periods. 60cm wide x 90cm deep per position, multi-row areas require 60cm riser per row.	Power, Wireless and data cabling needed to photo positions on FOP.	J		I	J						R	IOC, IF
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Normal seating areas.	-	Seating areas are generally not applicable for outdoor venues.	I		I	F						G	IOC
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

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Security																				
Security Command Centre	120	1	120	145	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.											P	
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-												
Security Work Area	15	1	15	-	An area for additional security agencies.	-	-	-												
CCTV Surveillance & Video Desk	15	1	15	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-												
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.												
Radio Dispatch & Monitoring	15	1	15	-	An area for the monitoring and control of security communication and the distribution/return of radios.	-	-	-												
Work Room	50	1	50	-	Open plan of work stations designated for security personnel.	-	-	-												
Secure Storage	10	1	10	-	An area for Security equipment storage.	-	-	-												
Dog Cage(s)	4	Varies	Varies	8 (each)	Holding area for security dogs.	-	Area only for enclosed portable units (e.g. cages)	Dependent on Host City / Country / Risk Assessment												F
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-					J	J						P
Briefing and Break Area / Staging Area	140	1	140	170	Area for briefing staff before and after shifts.	-	Enclosed space.	Assumes tent.												
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.					J	J						P
Vehicle Screening & Sanitisation Area	569	1	569	800	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.							I	F				P
Vehicle Queue	175	1	175	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-												
Oversized Vehicle Queue	140		140	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-												
Vehicle Sanitisation & Wanding Areas	150		75	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.												
Oversized Vehicle (Truck & Bus) Sanitization	70		70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-												
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.												
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Staff staging and break enclosed space.	-												
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the Venue Secure Perimeter and/or venue screening area for constituents.	-	-							F	I				
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-												P
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-	I				F							P
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-					F		I					P
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.					F							P

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the Venue Secure Perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	-				F					G	P	
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the Venue Secure Perimeter.	Net area for each screening position will accommodate: 4 Wanding Stations, OR - 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue.											
Athlete / Team	18	1-2	18-36	36-72	-	-	Screening and search area is covered.	-	I			F							P
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	-	-	Entrance can be combined with Athlete and/or Olympic Family.	I			F							P
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	-	-	Entrance can be combined with TO, ENG and/or Press.	I		I	F							P
Broadcast	18	1-2	18-36	45-90	-	-	Screening and search area is covered. Direct access from outside venue perimeter into Broadcast Compound.	Search area is covered. Direct access from outside venue perimeter into Broadcast Compound.				F			I				R IOC
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	-	-	-											
Press and Photographer	18	1-2	18-36	36-72	-	Located in close proximity if possible to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays. Entry should be exclusive to Media (Press and Broadcast) preferably leading directly into Press areas.	-				F							R IOC
Staff, Volunteer, Contractor & Vendor	18	2-3	36-54	90-135	-	-	-	-				F							G IOC
Spectator / Sponsors	18	Varies	Varies	54	-	-	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-				F							P
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.											
Exception Gate	-	-	-	-	Access gate for designated accredited personnel.	Located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.											
X-ray of bags	54	Varies	Varies	100 (each)	Device for screening bags/equipment coming into the venue.	-	-	-				I		F					G P
Venue Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	-				F		I					P
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	Located at each security screening area, 1m to 3m width, sometimes used as a secondary service vehicle exit point.	-											
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m in width, number varies per concourse design.	-											
Staff, Volunteer, Contractor & Vendor	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	-											
Sponsor Services																			
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.				I		F					P

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Sport Operations																			
Competition Management	60	1	60	90	A work area for Sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located close to Athlete Area and FOP; may be co-located within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space.	I				F					P	
Competition Manager & Asst. Mngr. Desks	12	1	12	-	An area for the Manager and Assistant(s) Manager.	-	-	-											
Assigned Work Area	20	1	20	-	Open plan of work stations designated for Sport personnel.	-	-	-											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Area	18	1	18	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-											
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-											
Sport Information	20	1	20	30	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located in Athlete Area.	Enclosed space with waiting area and seating.	Includes: information boards, pigeon holes, Info & Help desk, work area, info terminal stations & storage.	J			J						R	IF
Athlete Registration Area	24	1	24	34	-	Located adjacent to warm-up area.	-	-	I			F						G	IF
Athlete Lounge	100	1	100	140	An area where athletes can relax at the venue while not training or competing.	Located in Athlete Area.	-	Includes: seating area, lounge, Info & Help Desk, info terminal stations.	J			J						R	IF
Athlete Dressing, Locker, Shower, Toilet	20	Varies	Varies	35 (each)	Change-room facilities to accommodate athletes at the venue during competition and training.	Located in Athlete Area.	Enclosed space.	Assumes container units or existing space.	J			J						R	IF
IF & Sport Meeting Room	30	1	30	45	Meeting facility at the venue for the International Federation and Competition Management.	Located in close proximity to the IF Area and Competition Management area.	Enclosed space.	Shared meeting room area between IF & Sport to serve various meeting needs.	J			J						G	IF
Sport Equipment Storage	15	1	15	25	Storage for athlete/team sport equipment.	Located adjacent to FOP or within close proximity.	-	-	J			J	I					R	IF
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	Reference should be made to AIBA guidelines for all FOP technical requirements.	-											
Playing Surface Dimensions or Area	6.1	Varies	6.1	-	-	-	Ring: 6.10 square metres, between 91cm - 1.22m above the floor and/or base. Platform: shall extend 46cm outside the line of ropes. Refer to the AIBA rulebook for further ring specifications.	Total area required may be greater than playing surface dimension.	F			I						R	IF
Vertical Height Requirement	-	-	-	-	-	-	-	-	F			I	I					R	IF
Surface	-	-	-	-	-	-	Refer to the AIBA rulebook for ring specifications.	-	J			J	I					R	IF
Orientation	-	-	-	-	Orientation of FOP area.	-	-	-	J			J	I					R	IF
Sports Lighting - Technical	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

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Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	-	Refer to the AIBA rulebook for ring specifications.	-											
Warm-up Surface Dimensions or Area	-	10	-	-	-	-	-	Total area required may be greater than playing surface dimension.	J			J			I	J		R	IF
Vertical Height Requirement	-	-	-	-	-	-	-	-	J		J	I				J		R	IF
Surface	-	-	-	-	-	-	-	-	J		J	I				J		R	IF
Orientation	-	-	-	-	Orientation of warm-up area.	-	-	-	I			F	I					R	IF
Athlete Common Warm-up Area	150	1	150	200	-	-	-	-	I			F	I					G	IF
/ Weigh-in Room	24	1	24	30	-	-	-	-	I			F						R	IF
Athlete Call Room	16	1	16	16	-	-	-	-	I			F						R	IF
Athlete / Team Seating	-	-	-	-	A designated seating area for athletes.	-	-	-	J	I	J					J			
Same Sport	-	Varies	-	-	-	-	-	-	J	I	J					I		R	IOC,IF
Different Sport	-	Varies	-	-	-	-	-	-	I	I	F					I		R	IOC
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	May be required for Sport Staff use. Quantity varies according to athlete numbers.				F						P	
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	Required if FOP is not located near Athlete Area.	Assumes temporary units. Quantity varies according to athlete numbers.				F						P	
International Federation																			
IF Area	70	1	70	80	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located in close proximity to accredited seating areas.	Enclosed space.	Assumes container units or existing space.	I		I	F						R	IF
IF President's Office	15	1	15	-	-	-	-	-	I		I	F						R	IF
IF Secretary - General/Executive Director's Office	15	1	15	-	-	-	-	-	I			F						G	IF
Reception, Secretariat, Waiting & Work Area	40	1	40	-	-	-	-	-	I			F						G	IF
Jury and Appeals Room	30	1	30	35	This space is utilised for the resolution of protests and appeals after competition.	-	Enclosed space.	Assumes container units or existing space.	I			F						R	IF
Lounge - Referees	30	1	30	45	A common rest area for referee/judges throughout the competition period.	Located in close proximity to FOP.	Enclosed space.	-	J			J						G	IF
Officials Locker Room, Shower, Toilet	25	1	25	30	A change area for officials.	-	Enclosed space.	-	I			F						R	IF
Technical Delegates Office & Work Area	15	1	15	20	Office area for Technical Delegates.	-	Enclosed space. 2 Technical Delegates.	-	I		I	F				I		R	IF
Technical Officials Meeting Room	90	1	90	135	A daily meeting area for Technical Officials.	Located in IF area.	Enclosed space.	-	I		I	F				I		R	IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I	J	J					J		R	IOC,IF
Sport Presentation																			
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.											
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-				F						P	
Announcer Position	3	1	3	-	-	-	-	-				F						P	
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space. Staff Work, Green Room, Entertainer Staging and Dressing and Prop Storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.											

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Technology Operations																			
Technology Help Desk	16	1	16	-	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium Security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support staff & manager.	-											P
Venue Technology Operations (VTO)	25	1	25	-	OCOG Technology Operations area. Operational work space for entire Venue Technology team, including Partners & contractors.	Adjacent to or within Venue Operations Centre (VOC).	Medium Security - lockable room. Air-conditioned as office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	-										G	P
OCOG Venue Technology Work Area	-	1	-	-	Work space for Venue Technology Manager, Assistant Venue Technology Manager, Technology Staffing Manager and associated volunteer(s).	-	-	Work space size may be dependent upon workforce per shift.											
AV Contractor Work Area	-	1	-	-	Work space for AV contractors/Technicians.	-	-	Work space size may be dependent upon workforce per shift.											
IT Provider Work Area	-	1	-	-	Work space for IT staff and "home base" for IT volunteers.	-	-	Work space size may be dependent upon workforce per shift.											
Reprographic Provider Work Area	-	1	-	-	Work space for reprographic contractors/technicians	-	-	Work space size may be dependent upon workforce per shift.											
Mobile Phone Provider Work Area	-	1	-	-	Workspace for mobile phone provider.	-	-	Work space size may be dependent upon workforce per shift. Charging area for Venue Operations workforce phones may be required.											
Wired Communications Provider Work Area	-	1	-	-	Work space for Wired Communications contractors/technicians.	-	-	Work space size may be dependent upon workforce per shift.											
Timing & Scoring/OVR Provider Work Area	-	1	-	-	Work space for OVR/Timing and Scoring contractors/technicians.	-	-	May not be required if adequate working space is allocated in OVR room.											
Radio Distribution Room (RDR)	15	1	15	-	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E & workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).	I										P
Information Technology																			
Computer Equipment Room (CER)	20	1	20	-	Area for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.	I									G	P
Data Local Area Network (LAN) Management Room & Store	25	1	25	-	LAN monitoring room and associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational staff & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces.										G	P

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Telecommunication & Audio Visual																			
Telecomm. Equipment Room (TER) Primary	36	1	36	-	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	Raised flooring is preferable for cabling distribution, but not essential.		I		F							P
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.		I		F							P
Telecomm. Operations & Store	25	1	25	-	Operational space for Telecommunications technical staff and associated storage for spare parts.	Adjacent to TER.	As TER with adequate FF&E to support operational staff & storage.	If located adjacent to TER, power supply boards, UPS units & A/C services can be common for both spaces.		I		F							P
Audio Control Positions	-	-	-	-	-	-	-	-				F					G		P
Venue	4	1	4	-	Area within Sport Production, location for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Production. Can be on FOP, in stands or in a booth with view to FOP.	High Security. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	Storage for country anthems.											
Press Conference	4	1	4	-	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), air-conditioned, waterproof. Work space & FF&E for operator.	PA system may also be used for Competition Draw if draw is held in Press Conference room.											
Warm-Up Area	0	0	0	-	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Within Warm-up area for Athletes.	Standard/mains power & FF&E.	-											
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-											
Workforce Break/Briefing	2	Varies	Varies	-	Area within Staff Break/Training room where audio control equipment is installed to facilitate meetings/training of large numbers of staff.	Workforce break/dining areas.	Standard/mains power & FF&E.	-											
Video Board Control	4	1	4	-	Area of video control for video board or video projection system. Operations integral with those of Sport Production.	Ideally with Sport Production. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	-				F					G		P
Wired Communications Control	2	1	2	-	Area of wired communications master control station and support technician. System essential to operations of both Sport Production and Results/FOP management.	Near to or within Sport Production is preferable. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location if located outdoors. Good cable access to FOP, OVR Room, Sport Production, Broadcast Graphics Room & Results Printing required. Workspace & FF&E for one technician, control equipment, spare parts and containers/boxes for equipment.	-				F					G		P
Temporary PA equipment Room	2 min	1	2 min	-	Temporary location for installation of PA active equipment (amplifiers etc) for venue PA system.	In existing PA equipment room, if applicable. May be located under venue seating/tribunes if existing room not available.	High Security. Fully redundant power (mains & standby generator) to equipment. Good cable access to speaker location and PA/Audio Control position required. Equipment installed in racks. Each rack set is 1000H x 600W x 600 D maximum.	Number of racks will depend on size of system deployed. Generally venues with large geographic area (outdoor) require larger installation and therefore more racks of amplifier equipment.					F						P

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Timing, Scoring, & Results Operations																			
Results Data Entry Position	-	-	-	-	Area(s) for event results and/or statistics data entry during competition.	As noted below	High Security. Fully redundant power (mains & generator) with UPS to all results data entry equipment/workstations. Space & FF&E for all data entry personnel & results management staff. Adequate weather (rain/sun) protection for equipment/workstations to be provided.	Where data entry occurs outdoors, adequate weather (rain/sun) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
Field of Play - Technical Table	3	1	3	-	Area/position for results data entry & "spy camera" control operations.	Position located at Technical Table with sport results & sport/team officials.	-	May occur as a position on the FOP, or in a room with a view to the FOP.											
Timing and Scoring Position	-	-	-	-	Area(s) for event timing & scoring personnel & equipment during competition.	Sport Specific. However, all locations must have view to FOP	High Security. Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards & OVR room. Space & FF&E for operators and equipment.	Main scoring & timing control located at Technical Table.	I	I	I	F						R	IF, Swatch
Field of Play - Officials Tables Scoring	5	5	25	-	-	Positions located around the BX ring.	Location(s) for event referees/judges scoring personnel & equipment.	-											
Field of Play - Timekeepers positions	5	2	10	-	-	Ringside & Technical Table	Positions for official timekeepers separate to scoring judges.	-											
Field of Play - Scoring Control & Manager	2	1	2	-	-	Position located at Technical Table with sport results, data entry & timekeeper.	Position for scoring manager and scoring control equipment rack.	-											
On Venue Results (OVR)	-	-	-	-	Area is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	Easy access to FOP critical for technical and results staff.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Space & FF&E required for high density of computer workstations, racks for servers and working space for technicians, operators and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or venues where two sports occur concurrently will require more space for additional OVR equipment.	I	F								P	
OVR Provider Work Area	18	1	18	-	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO/CIS/PRD etc).	Ideally adjacent to IT provider work area.	-	-											
IT Provider Work Area	18	1	18	-	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-											
Scoreboard Control	-	-	-	-	Area of scoreboard control operations. Operations integral with those of Sport Production, data provided from OVR System. Space for both Control and Interface workstations and 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.	I	F							G	P	
Scoreboard Control	2	1	2	-	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator and workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-											
Scoreboard Interface	2	1	2	-	Area for interface equipment (PC workstations) linking OVR system and Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-											

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Results Printing (PRD)	60	1	60	-	Area for hard copy results production and distribution. Location of high intensity work involving many staff preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area and position for the Print Distribution Workstation (IDS interface) equipment and operator.	Near/adjacent to Press Workroom, access to Press Tribunes, Broadcast Commentary Positions, Sport Information Desk, Doping & Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specification. Space & FF&E required for equipment and operational staff as well as space for 1 x pallet of paper to support print/copy operations.		I	I	I	F				I		R	IF, Swatch	
TV Graphics Interface	3	1	3	-	Area where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operators & good cable access to OVR room.					I		F			G	P		
Technology Storage																				
Technology General Storage	15	1	15	-	Area for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F						G	P	
IT Bulk Storage	30	1	30	-	Storage area for all spare IT equipment & associated boxes/containers.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to IT provider at all times.				F						G	P	
Reprographic Primary Storage Area	12	1	12	-	Primary storage/technical area in-venue for reprographic provider. Storage for spare parts, additional devices and consumables serving primarily Results Printing Operations.	In venue location adjacent to, or within Results Printing Room.	High Security - lockable. Standard office environment with standard power. Workspace & FF&E for one technician.		I		F							G	P	
Reprographic Bulk Storage Area	15	1	15	-	Storage area for bulk paper allocated to venue (multiple pallets).	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of paper required to support venue operations.				F						G	P	
Timing and Scoring Workshop	10	1	10	-	In venue storage and workshop for timing equipment, spare parts and small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.		I		F							G	P	
Timing & Scoring Bulk Store	40	1	40	-	Storage area for large crates and containers used for scoreboards and bulk equipment. Must be accessible to OVR provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of Timing & Scoring equipment deployed to venue. May be combined with Timing & Scoring Workshop if location & size of space meet requirements for venue.	I		F							G	P	
Audio Visual Bulk Store	30	1	30	-	Storage area for large crates and containers used for video boards, PA equipment and TV boxes. Must be accessible to Video/Public address provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of audio/video equipment deployed to venue.				F						G	P	
Technology General Infrastructure																				
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required to distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closet. CCFs are to be installed in locations that allow for easy access for service technicians and easy cable access from TER room and to user device locations.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Work Room.	High Security - lockable & weatherproof. May require fan or dedicated A/C depending upon room location and / or configuration. Fully redundant power (mains & generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.	I		F								P	

BOXING

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of Power from Data/Voice and Audio Visual Cabling	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in a manner which allows for easy access and repair/replacement. Legacy installations are to be installed as permanent while temporary (overlay) should be installed using methods which are easily installed & removed minimising potential damage to existing venue.										P		
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.	-	-	"												
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.	-	-	"												
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.	-	-	"												

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CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	"											
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	"											
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-											
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-											
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-											
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-											
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-											
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I		F							P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.											
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to Video Control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I		F							P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the videoboard. Required for outdoor venues where the videoboard cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each videoboard.											
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Production on a sport specific basis.	Adequate power, cable pathways to/from boards to Video Control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I		F						G	P	
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to / from audio / PA amplification system and / or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend PA speakers from venue ceiling structure.	-	-	-											
Mobile Phone Infrastructure (antenna)	-	Varies	-	-	Infrastructure required to support installation of additional radio antenna and mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to / from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.	I		F						G	P	

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Ticketing																			
Ticket Box Office	40	1	40	100	An area at the venue where Olympic tickets are sold.	Adjacent to the secure perimeter; near the spectator entry point of the venue	Gross area includes internal & external queue.	Assumes container unit with accessible access to internal and external service window. Dependent upon spectator capacity, venue layout and footprint and spectator access point locations.					F					P	
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	15	1	15	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s)	15	1	15	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	25	1	25	50	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.					F					P	
Driver Staging	80	1	80	150	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.					F					P	
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside Venue Secure Perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	20	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-					F					P	
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from each Host City, based on vehicle / bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J							I	P
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J							I	P
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F							P
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.				F						I	G IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.				F							G IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.	I		F								G IOC
Spectator and Staff Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				F							P
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.	I		F								P
Accessible	-	-	-	-	-	-	-	Part of Spectator total.				F							P
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Surface areas paved or gravel.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have a drop-off in close proximity to accredited entry point and then driver will park.			I	F							P
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.				F							P
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.				F							P
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-			J	J							P
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes circulation.				F							P
Emergency Services	-	-	-	50 (each)	-	Generally located inside the Secure Venue Perimeter.	-	Includes circulation.				F							P

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Venue Development																			
Site Management Compound	503	1	503	650	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Dependent upon venue footprint, extent of temporary works, and number of contractors.										P	
Site Management Area	60	1	60	-			Enclosed space.												
Site Manager & Assistant Site Manager(s) Work Area	12	1	12	-	Work and meeting area for the Site Manager and Assistant Site Manager.														
Site Administration Desk & Work Area	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.														
Response Team & Vendor Staging	24	1	24	-	On-site permanent and temporary facilities for specialty staff and general labor crew to be on-call.														
Secure Storage - Site Management	12	1	12	-	Area for storage.														
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.		Enclosed space. Area for office, staging and a secure storage area.	Assumes container units or existing space. Contractor usually installs container units at their own cost.											
Sign/Look Staging, Work Space/Secure Storage	50	1	50	-	Area for holding, sorting, repairing of event signs, look materials and tools.			Assumes container unit or existing space.											
Material Warehouse/Construction Work Space	80	1	80	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.		Enclosed space.	Assumes tent or canopy with 2 side walls. Area for carpentry, painting and general construction. Storage for non-weather proof materials.											
Vendor Secure Storage	60	1	60	-	Area for containers, usually provided by the various temporary construction sub-contractors.		Enclosed space.	Assumes container units or existing space.											
Materials Staging Area	50	1	50	-	Area for the off-loading and loading of bulk construction materials.		Area only.												
Exterior Storage Area	50	1	50	-	Outdoor storage of material and products.		Area only.	Weatherproof area for large and bulk materials.											
Vehicle Staging	90	1	90	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.		Area only.	Service, Repair & Specialty vehicles											
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	Located in BOH compound areas.		Assumes temporary units. Accessible toilet facilities should be provided.											
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.		I		F						P	
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.			I		F						P	
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.											P
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.		Generators also provide primary source of power to one half of the FOP lighting.											
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.													

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Venue Management																			
Venue Operations Centre (VOC)	60	1	60	90	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Venue capacity and venue layout.					F						P
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-											
Assigned Desks	20	1	20	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Space and Storage	18	1	18	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	40	1	40	50	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.					F						P
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	24	1	24	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	-											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	150	1	150	180	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre	Enclosed space.	Assumes existing space or tent. Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.					F						P
Workforce																			
Workforce Area	150	1	150	180	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.					F						P
Check-In Area	96	1	96	-	Area to log-in venue staff and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Area	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	335	1	335	400	The space where workforce meals are served and where workforce can break during their shift.	A location that will provide easy access to all workforce for breaks and meals; will vary according to venue layout/size.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon workforce numbers..					F						P
END OF DOCUMENT																			

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Accreditation																								
Venue Accreditation Office	40	1	40	100	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.											P	-				
Day Pass Issue & Problem Resolution Desk	10	1	10	-																				
Work Area	12	1	12	-																				
Manager Desk or Office & Storage	12	1	12	-																				
Waiting Area	6	1	6	-																				
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	-	Enclosed space. May be required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.					F						P	-				
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Broadcast																								
Broadcast Compound	-	1	-	2500	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements. Located in temporary structure. Assumes container/trailer unit or tent.											R	IOC				
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.												G	IOC			
Broadcast Manager Office	12	1	12	-		-	-	-	-															
Work Room, Assigned & Unassigned Desks	48	1	48	-		-	-	-	-															
Technical Operations Centre	30	1	30	75	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.												R	IOC			
Broadcast Catering	105	1	105	122	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Kitchen & Prep	15	1	15	-		-	-	-	Assumes container unit.															
Buffet Line & Dining	90	1	90	-		-	-	-	Assumes container unit or tent.															
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements.																
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Assumes container units.																
Mobile Unit(s)	65	Varies	Varies	-	-	-	-	-																
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters.																
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Assumes container units.																
Mobile Unit(s)	65	Varies	Varies	-	-	-	-	-																
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.																
Toilets	1.5	4	6	18	Toilet units designated for broadcast personnel.	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Commentator Control Room	50	1	50	65	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in close proximity to commentator position area	Enclosed space with incoming television cable.	Assumes existing space or container.												R	IOC			
Broadcast Information Office (BIO)	12	1	12	15	Space for broadcast management and team meetings.	Located near commentator positions and CCR	Enclosed space.	Assumes existing space or container.												R	IOC			
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-												G	IOC			
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J									R	IOC			
Mixed Zone	20 linear mtrs.	1	20 linear mtrs.	120	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Adjacent to the FOP	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I	I	J									R	IOC, IF			
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in seating areas with view to FOP and covered when possible.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Outdoor commentator positions should have the option of cover for protection from various weather conditions (e.g. sun, rain). Space for commentator positions may vary according to actual venue/permanent seating setup.												R	IOC			
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	Located at the rear of the commentator grouping so as not to disrupt the FOP view of other commentator positions.	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	A com-cam position equals 2 adjacent commentator positions.																

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions	1 position = uses 1 seat in existing seating bowls.	-			I	J			J	I		R	IOC
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval. Space for camera positions may vary according to actual venue/permanent seating setup.	J		I	J			J	J		R	IOC
Camera Position - Other	4	15	60	135	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	Space for camera positions may vary according to actual venue/permanent seating setup.	I		I	J			J	I		R	IOC
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-				J	I		J			G	IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	-				J	I		J			G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in BOH areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.					J	I	J			G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography, in conjunction with OBS and IFs.	J			J	I		J	I		R	IOC
Catering																			
Catering Compound	394	1	394	600	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity.		I		F						P	
Work Areas - Catering Management	24	1	24	-		Generally, located in Catering Compound or possible the VOC.	Enclosed space.	Assumes existing space or container.											
Organising Committee Catering Manager	-	-	-	-			See Venue Management - VOC.	-											
Catering Contractor	12	1	12	-			-	-											
Beverage Contractor	12	1	12	-	Operational work space(s).		-	-											
Dry, Cold & Ice Storage	38	4	152	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.											
Vehicle Staging	50	1	50	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-											
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-											
Kitchen & Preparation Area	54	1	54	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.											
Uncovered Storage	50	1	50	-	Outdoor storage of material and products.	-	Area only.	-											
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	-											
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary). The temporary holding and distribution of potable water in accordance with local health code standards.	Located in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container(s). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity, level of catering activity.		I		F						P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	-											
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	-											
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue catering facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-	I		F							P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Ceremonies																				
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-											P	
Ceremonies Staging	20	1	20	25	For the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule; to coordinate location of podium, procession, and recession route, and location of flagpoles.	Adjacent to or close to FOP.	Consists of coordinator work space with area for secure storage, preparation and dressing area. See below for additional details.	Assumes existing space or container.											P	
Manager Desk	6	1	6	-	Work space for Manager.	-	-	-												
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenters, Medal/Flower staging, Secure medal and flag storage	12	1	12	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenter Preparation & Dressing	4	2	8	-	A dressing and preparation area for Presenters.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.													
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	-	Limited use, may be shared with other space. See Sport Presentation.	-												
Awards Podium Storage	8	1	8	12	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	Adjacent to FOP											P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.	I	J	J					J	G	R	IOC	
Cleaning and Waste																				
Cleaning & Waste Compound	175	1	175	250	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependent upon venue capacity.											P	
Vehicle Staging	50	1	50	-	Parking area for collection vehicles which generally remain inside the venue.	-	Area only.	-												
Sorting Area	50	1	50	-	Area for sorting waste.	-	Area only.	-												
Waste & Recycle Containers	15	3	45	-	Area in front of waste and recycle bins where material is separated for containment.	-	Area for containers. Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast). Assumes 30 cubic meter capacity each. Power requirement for compactor motor.												
Compactor Unit	25	Varies	Varies	-																
Equipment Supply & Storage	15	1	15	-	Space for cleaning equipment and paper product.	-	Enclosed space.	Assumes container unit.												
Contractor Office	15	1	15	-	Space for management and workforce staging.	-	Enclosed space.	-												
Doping Control																				
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	An Office and storage area will be incorporated into the existing spaces (e.g. waiting area/reception).	J	J	J								R	IOC
Waiting Area/Reception	16	1	16	20	Area where athletes check-in and wait prior to testing.	-	-	-												
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer. Wash basin for hand sanitisation.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-	I	J	J								R	IOC

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.					F					P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of staff pre and post shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large group.	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.					F					P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.					F					P	
Information Desk	-	-	-	-	-	-	-	-											
Lost & Found	-	-	-	-	A holding area for items found in the venue.	-	-	-											
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spectators.	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	Adjacent to Public Information.	-	-					F					P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes 12m away from covered search area.	Total number generally 50% of security screening positions.					F					P	
Stroller Storage	72	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	-	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.					F					P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.					F					P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators					F					P	
Spectator Shade & Shelter	1	Varies	Varies	-	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and event services areas.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.					F					P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-					F					P	
Spectator Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators.	-	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.					F					P	
Hand Wash Stations	1	Varies	Varies	6 (per 20 toilets)	A chemical unit used in the absence of potable water.	-	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.					F					P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Finance																				
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I		F						P		
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Generally located inside venue perimeter and outside venue perimeter.	Area only.	Quantity dependent upon venue capacity.		I		F						P		
Language Services																				
Work Area / Desk	15	1	15	20	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre.	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-			J	J			I			G	IOC	
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference needs.	-			J	J			I			G	IOC	
Logistics																				
Logistics Compound	-	1	Varies	500	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access. Secondary Compound Area - an additional compound area may be necessary for staging or storage of equipment that is in close proximity to FOP and/or the finish area.										P		
Logistics Centre	40	1	40	-	-	-	Enclosed space.	Assumes container units or tent.												
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-												
Team Staging/Work Area	25	1	25	-	Space for staging and a work area.	-	-	-												
Secure Storage & Equipment Sign-out	12	1	12	-	Area for storage.	-	Storage for tools.	-												
Warehouse Storage	65	1	65	-	Storage area for furniture, fixtures, and equipment (FF&E).	-	Enclosed space.	Assumes tent												
Storage Yard	50	1	50	-	Outside storage area within compound.	-	Area only.	-												
Vehicle Staging	75	1	75	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-												
Fuel Tank(s)	9	Varies	Varies	-	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.												
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.												
Material Transfer Area (MTA)	-	1	-	400	An area where packages or other items are delivered when they arrive outside the venue delivery schedule times.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.					F				G	P		
X-Ray Area	18	1	18	36	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.												

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Look of the Games																			
Work Area and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.										P	
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J					J		R	IOC
National Olympic Committee (NOC) Flags	-	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.				J	J			J		R	IOC
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and back of locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J					J	G	R, P	IOC, IF
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals.	-											
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH).	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	-	I	J	J					J	G	R	IOC, L
Backdrop - Press Conference Room	2.2 x 6	1	2.2 x 6	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F			I	I			
Medical Services																			
Athlete Medical	50	1	50	75	An area where Medical provides services to athletes competing at the venue.	Located within the accredited Athlete Area.	Enclosed air-conditioned space.	Assumes container or existing space. Located in or near Athlete Compound	J	J	J					J		S	IF
Reception & Waiting	10	1	10	-	Area where athletes check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	2	16	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Physiotherapy Area(s)	8	1	8	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Medical/Rescue Stations	24	1	24	-	-	Located along FOP/course area.	Area only. Cover or umbrella system.	-											
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J					J		S	IF
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.											
Spectator Medical	40	1	40	80	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed air-conditioned space. 1 per 20,000 spectators	Assumes container unit or existing space.				I	F			I		P	
Reception & Waiting	10	1	10	-	Area where spectators check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	8	1	8	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	2	16	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Triage Station	9	1	9	18	Additional space to treat minor medical needs of spectators.	-	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.				I	F			I		P	
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.										P	
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Paved, graveled or grass area with fence, barricade or rope enclosure.	-				F		I		I		P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	I	J	F	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation		
Merchandise																							
Office, Cash Room & Work Area	12	1	12	15	An area to manage the retailing of all Olympic merchandise inside the venue.	-	Enclosed space with secure entry.	Assumes container unit or existing space.													P		
Storage	15	1	15	20		-	-	Assumes storage containers or existing space.														P	
Program Sales Stands/Booths	1	1	1	2		-	Area only.	Units provided by vendor. Quantity and location decided by vendor and OCOG.														P	
Merchandise Points of Sale (POS)	6	Varies	Varies	18		Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.	Gross area is per each P.O.S. and includes service area and queue.				I		F							P	
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-				I	J	J						G	R	IOC	
Olympic Family Services																							
Olympic Family Lounge	162	1	162	370	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes tent.				I		I	F					I	G	G	IOC
Welcome Desk & Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-	-															
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.	-															
Staff/Volunteer Room & Storage	9	1	9	-	On-call waiting area for Protocol staff and equipment storage.	-	-	-															
Dining & Lounge	90	1	90	-	Area for dining and lounge.	-	-	-															
Preparation/Buffer set-up/Beverage Area	45	1	45	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Staff/Volunteer, Athlete, Media)	-															
Toilets	20	1	20	40	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	2 female, 2 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided.												I	G	G	IOC
Protocol flags	-	-	-	-	-	-	See Look of the Games.	-						J	J					J		R	IOC
Press Operations																							
Venue Media Centre (VMC)	350	1	350	550	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Confer	Close proximity to Press Tribune, Press Conference room, and Mixed Zone area.	Enclosed space for 60 press and 15 photographers.	Assumes tent. Given the short competition period, it is recommended the media centre be located in a temporary accommodation.							F						R	IOC	
Reception & Information Desk	18	1	18	-	Welcome desk at the entrance, for information distribution.	-	-	-															
Storage	4	1	4	-	Equipment storage.	-	-	-															
Press Manager Office	12	1	12	-	Operational work space.	-	-	-															
Photo Manager Office	12	1	12	-	Operational work space.	-	-	-															
Olympic News Service (ONS) Work Room or Area	25	1	25	-	Operational work space.	-	Enclosed space.	-															
Info Stations	20	1	20	-	Computer stations and printers.	-	-	-															
Press Work Room or Area	150	1	150	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.															
Photo Work Room or Area	35	1	35	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.	-															
Photographers Check-in & Photo Bib Distribution	9	1	9	-	Area where photographers register and receive/return photo bibs.	-	-	-															
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.															
Lounge/Catering Prep	50	1	50	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-	-															
Toilets	1.5	6	9	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided															

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Press Conference Room	100	1	100	210	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I			F						R	IOC
Seating Area	60	1	60	-	An area for accredited press.	-	Seats and standing room.	-											
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3.6 m table, 8 chairs & step and repeat backdrop.	-											
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-											
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-											
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-				F			I	I			
Mixed Zone	15 linear mtrs.	1	15 linear mtrs.	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I		I	F						R	IOC,IF
Press Tribune	-	-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	-	Tabled seating is fitted out with telephones, television monitors, power and other press facilities (indoor venues). For outdoor venues, these services will exist in VMC.	-											
Press Tabletop Seating	Varies	Varies	Varies	-	-	Easy access from Venue Media Centre and direct access if possible to Mixed Zone.	<u>In an existing stadium or seating area:</u> 1 seat wide (folding chairs at 60 cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50 cm deep tabletop per position, each position = 2 stadium seats. <u>Temporary Stands:</u> 1 seat (folding chairs at 60 cm spacing) x 2 rows deep of proposed seating system (normally 150 cm-170 cm deep).	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.			I	F					R	IOC,IF	
Press Seating (non-tabled)	Varies	Varies	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.			I	F						R	IOC,IF
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided											
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-											
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	In close proximity to FOP.	Approx. 40 photographers expected at peak finals periods. 60cm wide x 90cm deep per position, multi-row areas require 60cm riser per row.	Power, Wireless and data cabling needed to photo positions on FOP.	J		I	J						R	IOC, IF
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Normal seating areas.	-	Seating areas are generally not applicable for outdoor venues.	I		I	F						G	IOC
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

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Security																			
Security Command Centre	100	1	100	120	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.					I	F				P	
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-											
Security Work Area	15	1	15	-	An area for additional security agencies.	-	-	-											
CCTV Surveillance & Video Desk	12	1	12	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-											
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.											
Radio Dispatch & Monitoring	12	1	12	-	An area for the monitoring and control of security communication and the distribution/return of radios.	-	-	-											
Work Room	40	1	40	-	Open plan of work stations designated for security personnel.	-	-	-											
Secure Storage	8	1	8	-	An area for Security equipment storage.	-	-	-											
Dog Cage(s)	4	Varies	Varies	8 (each)	Holding area for security dogs.	-	Area only for enclosed portable units (e.g. cages)	Dependent on Host City / Country / Risk Assessment						F					
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-				J	J					P	
Briefing and Break Area / Staging Area	75	1	75	-	Area for briefing staff before and after shifts.	-	Enclosed space.	Assumes tent.											
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.				J	J					P	
Vehicle Screening & Sanitisation Area	377	1	377	500	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.					I	F				P	
Vehicle Queue	100	1	100	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-											
Oversized Vehicle Queue	70	1	70	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-											
Vehicle Sanitisation & Wanding Areas	100	1	100	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.											
Oversized Vehicle (Truck & Bus) Sanitization	70	-	70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-											
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.											
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Staging and break enclosed space.	-											
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the Venue Secure Perimeter and/or venue screening area for constituents.	-	-					F	I					
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-				J	J					P	
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-	I		F							P	
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-			F		I					P	
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.				F						P	

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Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the Venue Secure Perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	-				F					G	P	
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the Venue Secure Perimeter.	Net area for each screening position will accommodate: 4 Wanding Stations, OR - 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue.											
Athlete / Team	18	1-2	18-36	36-72	-	-	Screening and search area is covered.	-	I		F								P
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	-	-	Entrance can be combined with Athlete and/or Olympic Family.	I		F								P
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	-	-	Entrance can be combined with TO, ENG and/or Press.	I	I	F								P
Broadcast	18	1-2	18-36	45-90	-	-	Screening and search area is covered. Direct access from outside venue perimeter into Broadcast Compound.	Search area is covered. Direct access from outside venue perimeter into Broadcast Compound.			F			I					R IOC
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	-	-	-											
Press and Photographer	18	1-2	18-36	36-72	-	Located in close proximity if possible to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast) preferably leading directly into Press areas.	-			F								R IOC
Staff, Volunteer, Contractor & Vendor	18	2-3	36-54	90-135	-	-	-	-			F								G IOC
Spectator / Sponsors	18	Varies	Varies	54	-	-	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-			F								P
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.											
Exception Gate	-	-	-	-	Access gate for designated accredited personnel.	Located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.											
X-ray of bags	54	Varies	Varies	100 (each)	Device for screening bags/equipment coming into the venue.	-	-	-			I	F					G	P	
Venue Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	-			F	I							P
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	Located at each security screening area, 1m to 3m width, sometimes used as a secondary service vehicle exit point.	-											
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m in width, number varies per concourse design.	-											
Staff, Volunteer, Contractor & Vendor	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	-											
Sponsor Services																			
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.			I	F							P

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Sport Operations																			
Competition Management	45	1	45	70	A work area for Sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located close to Athlete Area and FOP; may be co-located within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space.	I			F						P	
Competition Manager & Asst. Mngr. Desks	12	1	12	-	An area for the Manager and Assistant(s) Manager.	-	-	-											
Assigned Work Area	15	1	15	-	Open plan of work stations designated for Sport personnel.	-	-	-											
Hot Desks	6	1	6	-	Shared work stations.	-	-	-											
Work Area	12	1	12	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-											
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-											
Sport Information	20	1	20	25	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located in Athlete Area.	Enclosed space with waiting area and seating.	Includes: information boards, pigeon holes, Info & Help desk, work area, info terminal stations & storage.	J		J							R	IF
Athlete Lounge	150	1	150	200	An area where athletes can relax at the venue while not training or competing.	Located in Athlete Area.	Enclosed space.	Includes: seating area, lounge, Info & Help Desk, info terminal stations.	J		J							R	IF
Athlete Dressing, Locker, Shower, Toilet	100	2	200	300	Change-room facilities to accommodate athletes at the venue during competition and training.	Located in Athlete Area.	Enclosed space. Separate male and female facilities.	Assumes container units or existing space. Approximately 60+/- male athletes and 20+/- female athletes.	J		J							R	IF
IF & Sport Meeting Room	30	1	30	45	Meeting facility at the venue for the International Federation and Competition Management.	Located in close proximity to the IF Area and Competition Management area.	Enclosed space.	Shared meeting room area between IF & Sport to serve various meeting needs.	J		J							G	IF
Sport Equipment Storage	400	1	400	600	Storage for athlete/team sport equipment (boats).	Located adjacent to FOP / Athlete Areas or within close proximity.	Boat storage racks. 150-200 boats.	-	J		J	I						R	IF
Boat Control	50	1	50	90	Area for boat measurement.	Located adjacent to FOP in the BOH or within close proximity.	Covered area.	-	I		F	I						R	IF
Boat Control #2	5 x 5	1	25	40	-	Located along FOP.	-	-											
Boat Repair Area	72	1	72	140	Area for repairing and service of equipment.	Located in Athlete Area.	Covered area.	-											
FOP Maintenance Equipment Storage/Staging	72	1	72	140	Area for construction or repair to FOP.	Located adjacent to FOP or within close proximity.	Covered area.	-	I		F	I						R	IF
Athlete Dry Area	80	1	80	160	Area for drying team equipment and gear.	Located in Athlete Area.	Covered area.	-	I		F							G	IF
Water Rescue Team Area and Storage Area	180	1	180	220	Area for Water Rescue staff daily briefing/debriefing. .	Located in Athlete Area.	Covered and enclosed storage area.	Gear storage and drying room/area.	I		F							G	IF
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	Reference should be made to ICF guidelines for all FOP technical requirements.	-											
Playing Surface Dimensions or Area	600 x 10	1	6000	-	-	FOP.	Not longer than 600m and minimum width of 10m.	Total area required may be greater than playing surface dimension.	F		I			I	I			R	IF
Total Required Area Dimensions or Area	15 000	1	15 000	-	-	-	-	-	F		I			I	I			R	IF
Depth	0.8-1m	1	0.8-1m	-	-	FOP.	Suitable average depth 0.8-1.0m; depth should be minimised to reduce costs of required water flow rate.	-											
Surface	-	-	-	-	-	-	Water.	-	J		J	I						R	IF
Orientation	-	-	-	-	Orientation of FOP area.	-	Southeast orientation.	-	J		J	I			I	J		R	IF
Boat Put-in	-	-	-	-	-	FOP/Start area.	Area only for pontoon wih stairs. See ICF technical guidelines for specific requirements.	-											
Start Dock	18	1	18	-	-	FOP.	-	-											
Medical/Rescue Stations	-	-	-	-	-	-	See Medical requirements.	-											
Section Judge Platforms	5	8	40	-	-	-	-	-											
Gate Judges Lounge	25	1	25	-	-	-	Enclosed space.	-											
Boat Take-out	-	-	-	-	-	FOP/Finish area.	Area only.	-											
Sports Lighting - Technical	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	-	-	-											
Warm-up Surface Dimensions or Area	280	1	280	-	-	Adjacent to FOP (in close proximity if possible).	Warm-up area for athletes prior to competition.	Total area required may be greater than playing surface dimension.	J			J			I	J		R	IF
Surface	-	-	-	-	-	-	Water.	-	J			J	I			J		R	IF
Orientation	-	-	-	-	Orientation of warm-up area.	-	Southeast orientation.	-	I			F	I					R	IF
Athlete / Team Seating	-	-	-	-	A designated seating area for athletes.	-	-	-	J	I	J					J			
Same Sport	-	Varies	-	-	-	-	-	-	J	I	J					I		R	IOC,IF
Different Sport	-	Varies	-	-	-	-	-	-	I	I	F					I		R	IOC
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	May be required for Sport Staff use. Quantity varies according to athlete numbers.					F						P
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	Required if FOP is not located near Athlete Area.	Assumes temporary units. Quantity varies according to athlete numbers.					F						P
International Federation																			
IF Area	60	1	60	65	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located within Competition Management area.	Enclosed space.	Assumes container units or existing space.	I		I	F						R	IF
IF President's Office	15	1	15	-	-	-	-	-	I		I	F						R	IF
IF Secretary - General/Executive Director's Office	15	1	15	-	-	-	-	-	I			F						G	IF
Reception, Secretariat, Waiting & Work Area	30	1	30	-	-	-	-	-	I			F						G	IF
Jury Room	20	1	20	25	Area to where the jury meets to resolve protests. Meeting, debriefing, and rest area for officials; a separate area for a changing room.	Located within Competition Management area.	Enclosed space.	Assumes container units or existing space.	I			F						R	IF
Officials Lounge & Change-room Area	100	1	100	120	Office area for Technical Delegates.	Located within Competition Management area.	Enclosed space.	Assumes container units or existing space.	J			J						G	IF
Technical Delegates Office & Work Area	10	1	10	15	Area to meet and discuss protests.	Located within Competition Management area.	Enclosed space. 1 Technical Delegate.	-	I		I	F				I		R	IF
Protest Office	25	1	25	30	A designated seating area for IF Officials.	Located within Competition Management area.	Enclosed space.	-	I		I	F				I		R	IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	-	-	-	-	I	J	J					J		R	IOC,IF
Sport Presentation																			
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.											
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-				F							P
Announcer Position	3	1	3	-	-	-	-	-				F							P
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space. Staff Work, Green Room, Entertainer Staging and Dressing and Prop Storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.											

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Technology Operations																			
Technology Help Desk	16	1	16	-	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium Security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support staff & manager.	-				F						P	
Venue Technology Operations (VTO)	25	1	25	-	OCOG Technology Operations area. Operational work space for entire Venue Technology team, including Partners & contractors.	Adjacent to or within Venue Operations Centre (VOC).	Medium Security - lockable room. Air-conditioned as office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	-				F					G	P	
OCOG Venue Technology Work Area	-	1	-	-	Work space for Venue Technology Manager, Assistant Venue Technology Manager, Technology Staffing Manager and associated volunteer(s).	-	-	Work space size may be dependent upon workforce per shift.											
AV Contractor Work Area	-	1	-	-	Work space for AV contractors/Technicians.	-	-	Work space size may be dependent upon workforce per shift.											
IT Provider Work Area	-	1	-	-	Work space for IT staff and "home base" for IT volunteers.	-	-	Work space size may be dependent upon workforce per shift.											
Reprographic Provider Work Area	-	1	-	-	Work space for reprographic contractors/technicians	-	-	Work space size may be dependent upon workforce per shift.											
Mobile Phone Provider Work Area	-	1	-	-	Workspace for mobile phone provider.	-	-	Work space size may be dependent upon workforce per shift. Charging area for Venue Operations workforce phones may be required.											
Wired Communications Provider Work Area	-	1	-	-	Work space for Wired Communications contractors/technicians.	-	-	Work space size may be dependent upon workforce per shift.											
Timing & Scoring/OVR Provider Work Area	-	1	-	-	Work space for OVR/Timing and Scoring contractors/technicians.	-	-	May not be required if adequate working space is allocated in OVR room.											
Radio Distribution Room (RDR)	15	1	15	-	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E & workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).	I		F							P	
Information Technology																			
Computer Equipment Room (CER)	20	1	20	-	Area for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.	I		F						G	P	
Data Local Area Network (LAN) Management Room & Store	25	1	25	-	LAN monitoring room and associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational staff & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces.				F					G	P	

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Telecommunication & Audio Visual																			
Telecomm. Equipment Room (TER) Primary	36	1	36	-	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	Raised flooring is preferable for cabling distribution, but not essential.		I		F							P
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.		I		F							P
Telecomm. Operations & Store	25	1	25	-	Operational space for Telecommunications technical staff and associated storage for spare parts.	Adjacent to TER.	As TER with adequate FF&E to support operational staff & storage.	If located adjacent to TER, power supply boards, UPS units & A/C services can be common for both spaces.		I		F							P
Audio Control Positions																			
Venue	4	1	4	-	Area within Sport Production, location for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Production. Can be on FOP, in stands or in a booth with view to FOP.	High Security. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	Storage for country anthems.											
Press Conference	4	1	4	-	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), air-conditioned, waterproof. Work space & FF&E for operator.	PA system may also be used for Competition Draw if draw is held in Press Conference room.											
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-											
Workforce Break/Briefing	2	Varies	Varies	-	Area within Staff Break/Training room where audio control equipment is installed to facilitate meetings/training of large numbers of staff.	Workforce break/dining areas.	Standard/mains power & FF&E.	-											
Video Board Control	4	1	4	-	Area of video control for video board or video projection system. Operations integral with those of Sport Production.	Ideally with Sport Production. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	Requirement based on deployment of Videoboard to ATH (mobile board).				F					G	P	
Wired Communications Control	2	1	2	-	Area of wired communications master control station and support technician. System essential to operations of both Sport Production and Results/FOP management.	Near to or within Sport Production is preferable. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location if located outdoors. Good cable access to FOP, OVR Room, Sport Production, Broadcast Graphics Room & Results Printing required. Workspace & FF&E for one technician, control equipment, spare parts and containers/boxes for equipment.	-				F					G	P	
Temporary PA equipment Room	2 min	1	2 min	-	Temporary location for installation of PA active equipment (amplifiers etc) for venue PA system.	In existing PA equipment room, if applicable. May be located under venue seating/tribunes if existing room not available.	High Security. Fully redundant power (mains & standby generator) to equipment. Good cable access to speaker location and PA/Audio Control position required. Equipment installed in racks. Each rack set is 1000H x 600W x 600 D maximum.	Number of racks will depend on size of system deployed. Generally venues with large geographic area (outdoor) require larger installation and therefore more racks of amplifier equipment.					F					P	

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Timing, Scoring, & Results Operations																			
Results Data Entry Position	-	-	-	-	Area(s) for event results and/or statistics data entry during competition.	As noted below	High Security Fully redundant power (mains & generator) with UPS to all results data entry equipment/workstations. Space & FF&E for all data entry personnel & results management staff.	Where data entry occurs outdoors, adequate weather (rain/sun) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
Field of Play	0	0	0	-	Areas/positions for results and/or statistics on the FOP.	Located at control table behind shooter line. Adjacent to Timing & Scoring.	-	May occur as a position on the FOP, or in a room with a view to the FOP.											
Back of House	0	0	0	-	Area back of house where data entry is performed into the OVR/Results System.	Sport Specific, but can be in warm-up or call areas.	-	Generally occurs Back of House, in sport location.											
Timing and Scoring Position	-	-	-	-	Area(s) for event timing & scoring personnel & equipment during competition.	Sport Specific. However, all locations must have view to FOP	High Security Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards, ball speed guns & OVR room. Space & FF&E for operators and equipment.	Where timing and scoring take place outdoors, adequate weather (rain/sun/snow) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
Start Position	2	1	2	-	-	-	-	-											
Judge 1-X Position	2	1	2	-	-	-	Cable access to Start Position & running time clock.	-											
Judge X-Y Position	2	1	2	-	-	-	Cable access to Finish Position & running time clock.	-											
Control Room	25	1	25	-	Area for central Timing & Scoring control operations, including Backup C system, Event Management & photo-finish system.	Sport Specific. However, have view Finish Line. Ideally located within or adjacent to OVR Room.	Cable access to Start/Finish locations, OVR & repeater scoreboard at finish.	-											
On Venue Results (OVR)	-	-	-	-	Area is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	Easy access to FOP critical for technical and results staff.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Space & FF&E required for high density of computer workstations, racks for servers and working space for technicians, operators and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or venues where two sports occur concurrently will require more space for additional OVR equipment.	I	F								P	
OVR Provider Work Area	18	1	18	-	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO/CIS/PRD etc).	Ideally adjacent to IT provider work area.	-	-											
IT Provider Work Area	18	1	18	-	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-											
Scoreboard Control	4	1	4	-	Area of scoreboard control operations. Operations integral with those of Sport Production, data provided from OVR System. Space for both Control and Interface workstations and 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.	I	F							G	P	
Scoreboard Control	2	1	2	-	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator and workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-											
Scoreboard Interface	2	1	2	-	Area for interface equipment (PC workstations) linking OVR system and Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-											

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Results Printing (PRD)	60	1	60	-	Area for hard copy results production and distribution. Location of high intensity work involving many staff preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area and position for the Print Distribution Workstation (IDS interface) equipment and operator.	Near/adjacent to Press Workroom, access to Press Tribunes, Broadcast Commentary Positions, Sport Information Desk, Doping & Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specification. Space & FF&E required for equipment and operational staff as well as space for 1 x pallet of paper to support print/copy operations.	-	I	I	I	F						R	IF, Swatch
TV Graphics Interface	3	1	3	-	Area where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operators & good cable access to OVR room.	-				I		F			G	P	
Technology Storage																			
Technology General Storage	15	1	15	-	Area for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F						G	P
IT Bulk Storage	30	1	30	-	Storage area for all spare IT equipment & associated boxes/containers.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to IT provider at all times.				F						G	P
Reprographic Primary Storage Area	12	1	12	-	Primary storage/technical area in-venue for reprographic provider. Storage for spare parts, additional devices and consumables serving primarily Results Printing Operations.	In venue location adjacent to, or within Results Printing Room.	High Security - lockable. Standard office environment with standard power. Workspace & FF&E for one technician.	-	I		F							G	P
Reprographic Bulk Storage Area	15	1	15	-	Storage area for bulk paper allocated to venue (multiple pallets).	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of paper required to support venue operations.				F						G	P
Timing and Scoring Workshop	10	1	10	-	In venue storage and workshop for timing equipment, spare parts and small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.	-	I		F							G	P
Timing & Scoring Bulk Store	40	1	40	-	Storage area for large crates and containers used for scoreboards and bulk equipment. Must be accessible to OVR provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of Timing & Scoring equipment deployed to venue. May be combined with Timing & Scoring Workshop if location & size of space meet requirements for venue.	I		F							G	P
Audio Visual Bulk Store	15	1	15	-	Storage area for large crates and containers used for video boards, PA equipment and TV boxes. Must be accessible to Video/Public address provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of audio/video equipment deployed to venue.				F						G	P
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required to distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closet. CCFs are to be installed in locations that allow for easy access for service technicians and easy cable access from TER room and to user device locations.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Work Room.	High Security - lockable & weatherproof. May require fan or dedicated A/C depending upon room location and / or configuration. Fully redundant power (mains & generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.	I		F								P

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Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of Power from Data/Voice and Audio Visual Cabling	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in a manner which allows for easy access and repair/replacement. Legacy installations are to be installed as permanent while temporary (overlay) should be installed using methods which are easily installed & removed minimising potential damage to existing venue.				F						P	
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.	-	-	"											
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.	-	-	"											
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.	-	-	"											
CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	"											
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	"											
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-											
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-											
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-											
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-											
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-											
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I		F								P
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.											
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to Video Control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I		F								P
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the videoboard. Required for outdoor venues where the videoboard cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each videoboard.											

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Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Production on a sport specific basis.	Adequate power, cable pathways to/from boards to Video Control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.		I		F					G	P	
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to / from audio / PA amplification system and / or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cablings) required to suspend PA speakers from venue ceiling structure.	-	-	-											
Mobile Phone Infrastructure (antenna)	-	Varies	-	-	Infrastructure required to support installation of additional radio antenna and mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to / from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.		I		F					G	P	
Ticketing																			
Ticket Box Office	30	1	30	75	An area at the venue where Olympic tickets are sold.	Adjacent to the secure perimeter; near the spectator entry point of the venue	Gross area includes internal & external queue.	Assumes container unit with accessible access to internal and external service window. Dependent upon spectator capacity, venue layout and footprint and spectator access point locations.				F						P	
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	10	1	10	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	4 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s)	10	1	10	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	4 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	18	1	18	36	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.				F						P	
Driver Staging	55	1	55	100	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.				F						P	
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside Venue Secure Perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	12	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-				F						P	
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from each Host City, based on vehicle / bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J						I	P	
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J						I	P	
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F						P	
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.				F					I	G	IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.				F						G	IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.	I		F							G	IOC
Spectator and Staff Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				F						P	
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.	I		F							P	
Accessible	-	-	-	-	-	-	-	Part of Spectator total.				F						P	
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Surface areas paved or gravel.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have a drop-off in close proximity to accredited entry point and then driver will park.			I	F						P	
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.				F					I	P	
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.				F					I	P	
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-			J	J						P	
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes circulation.				F						P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Emergency Services	-	-	-	50 (each)	-	Generally located inside the Secure Venue Perimeter.	-	Includes circulation.										P	
Venue Development																			
Site Management Compound	348	1	348	520	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Dependent upon venue footprint, extent of temporary works, and number of contractors.										P	
Site Management Area	45	1	45	-	-	-	Enclosed space.	-											
Site Manager & Assistant Site Manager(s) Work Area	12	1	12	-	Work and meeting area for the Site Manager and Assistant Site Manager.	-	-	-											
Site Administration Desk & Work Area	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-	-											
Response Team & Vendor Staging	18	1	18	-	On-site permanent and temporary facilities for specialty staff and general labor crew to be on-call.	-	-	-											
Secure Storage - Site Management	9	1	9	-	Area for storage.	-	-	-											
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.	-	Enclosed space. Area for office, staging and a secure storage area.	Assumes container units or existing space. Contractor usually installs container units at their own cost.											
Sign/Look Staging, Work Space/Secure Storage	35	1	35	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	-	Assumes container unit or existing space.											
Material Warehouse/Construction Work Space	55	1	55	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	-	Enclosed space.	Assumes tent or canopy with 2 side walls. Area for carpentry, painting and general construction. Storage for non-weather proof materials.											
Vendor Secure Storage	30	1	30	-	Area for containers, usually provided by the various temporary construction sub-contractors.	-	Enclosed space.	Assumes container units or existing space.											
Materials Staging Area	30	1	30	-	Area for the off-loading and loading of bulk construction materials.	-	Area only.	-											
Exterior Storage Area	30	1	30	-	Outdoor storage of material and products.	-	Area only.	Weatherproof area for large and bulk materials.											
Vehicle Staging	60	1	60	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	-	Area only.	Service, Repair & Specialty vehicles											
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.										P	
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.	-										P	
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.										P	
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.											
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-	-											

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Venue Management																			
Venue Operations Centre (VOC)	45	1	45	70	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Venue capacity and venue layout.					F						P
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-											
Assigned Desks	15	1	15	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	6	1	6	-	Shared work stations.	-	-	-											
Work Space and Storage	12	1	12	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	30	1	30	40	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.					F						P
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	15	1	15	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	8-10 people.											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	100	1	100	120	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre	Enclosed space.	Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.					F						P
Workforce																			
Workforce Area	120	1	120	150	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.					F						P
Check-In Area	76	1	76	-	Area to log-in venue staff and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Area	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	175	1	175	210	The space where workforce meals are served and where workforce can break during their shift.	A location that will provide easy access to all workforce for breaks and meals; will vary according to venue layout/size.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon workforce numbers..					F						P
END OF DOCUMENT																			

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation				
Accreditation																							
Venue Accreditation Office	40	1	40	100	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Day Pass Issue & Problem Resolution Desk	10	1	10	-																			
Work Area	12	1	12	-																			
Manager Desk or Office & Storage	12	1	12	-																			
Waiting Area	6	1	6	-																			
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	-	Enclosed space. May be required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.															
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.															
Broadcast																							
Broadcast Compound	-	1	-	3000	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements. Located in temporary structure.															
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Assumes container/trailer unit or tent.															
Broadcast Manager Office	12	1	12	-		-	-	-	-														
Work Room, Assigned & Unassigned Desks	48	1	48	-		-	-	-	-														
Technical Operations Centre	30	1	30	75	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Broadcast Catering	105	1	105	122	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Kitchen & Prep	15	1	15	-		-	-	-	Assumes container unit.														
Buffet Line & Dining	90	1	90	-		-	-	-	Assumes container unit or tent.														
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements.															
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Assumes container units.															
Mobile Unit(s)	65	Varies	Varies	-	-	-	-	-															
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters.															
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Assumes container units.															
Mobile Unit(s)	65	Varies	Varies	-	-	-	-	-															
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.															
Toilets	1.5	4	6	18	Toilet units designated for broadcast personnel.	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.															
Secondary Broadcast Compound	-	-	-	2000	Serves as a secondary unit to the main compound to house various broadcast technical needs that are required for Broadcast to cover the full competition FOP or area.	Located adjacent to FOP.	Required on venues where size of FOP or location of Primary Compound exceeds cabling capabilities.	Specific elements are venue/sport specific.															
Toilets	1.5	2	3	9	Toilet units designated for broadcast personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.															
Commentator Control Room	45	1	45	60	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in close proximity to commentator position area	Enclosed space with incoming television cable.	Assumes existing space or container.															
Broadcast Information Office (BIO)	12	1	12	15	Space for broadcast management and team meetings.	Located near commentator positions and CCR	Enclosed space.	Assumes existing space or container.															
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-															
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J			J	J				R	IOC			

CYCLING Mountain Bike

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Mixed Zone	20 linear mtrs.	1	20 linear mtrs.	120	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Adjacent to the FOP	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I		I	J			J	I		R	IOC, IF
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in seating areas with view to FOP and covered when possible.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Outdoor commentator positions should have the option of cover for protection from various weather conditions (e.g. sun, rain). Space for commentator positions may vary according to actual venue/permanent seating setup.			I	J			J	I		R	IOC
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	Located at the rear of the commentator grouping so as not to disrupt the FOP view of other commentator positions.	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	A com-cam position equals 2 adjacent commentator positions.			I	J			J	I			
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions	1 position = uses 1 seat in existing seating bowls.				I	J			J	I		R	IOC
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions. The primary source of camera positions is the use of helicopters.	FOP Camera positions are dependent upon production plans and IF approval. Space for camera positions may vary according to actual venue/permanent seating setup.	J		I	J			J	J		R	IOC
Camera Position - Other	4	30	120	270	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions. The primary source of camera positions is the use of helicopters.	Space for camera positions may vary according to actual venue/permanent seating setup.	I		I	J			J	I		R	IOC
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-					J	I	J			G	IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	-					J	I	J			G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in BOH areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.					J	I	J			G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography, in conjunction with OBS and IFs.	J			J	I	J	I			R	IOC
Catering																			
Catering Compound	394	1	394	600	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity.		I		F						P	
Work Areas - Catering Management	24	1	24	-		Generally, located in Catering Compound or possible the VOC.	Enclosed space.	Assumes existing space or container.											
Organising Committee Catering Manager	-	-	-	-			See Venue Management - VOC.	-											
Catering Contractor	12	1	12	-			-	-											
Beverage Contractor	12	1	12	-		Operational work space(s).	-	-											
Dry, Cold & Ice Storage	38	4	152	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.											
Vehicle Staging	50	1	50	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-											
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-											
Kitchen & Preparation Area	54	1	54	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.											
Uncovered Storage	50	1	50	-	Outdoor storage of material and products.	-	Area only.	-											
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	-											
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container(s). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity, level of catering activity.		I		F						P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	-											

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor IOC	OCOG	Venue Owner/Operator Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	-									
Outlets' Look Ceremonies	-	-	-	-	Look required for concessionaire units.	-	Venue catering facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-		I	F					P	
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-			I	F				P	
Ceremonies Staging	20	1	20	25	For the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule; to coordinate location of podium, procession, and recession route, and location of flagpoles.	Adjacent to or close to FOP.	Consists of coordinator work space with area for secure storage, preparation and dressing area. See below for additional details.	Assumes existing space or container.			I	F				P	
Manager Desk	6	1	6	-	Work space for Manager.	-	-	-									
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.									
Presenters, Medal/Flower staging, Secure medal and flag storage	12	1	12	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.									
Presenter Preparation & Dressing	4	2	8	-	A dressing and preparation area for Presenters.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.										
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	-	Limited use, may be shared with other space. See Sport Presentation.	-									
Awards Podium Storage	8	1	8	12	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	Adjacent to FOP		I	F					P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.	I	J	J			J	G	R	IOC
Cleaning and Waste																	
Cleaning & Waste Compound	175	1	175	250	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependent upon venue capacity.			F					P	
Vehicle Staging	50	1	50	-	Parking area for collection vehicles which generally remain inside the venue.	-	Area only.	-									
Sorting Area	50	1	50	-	Area for sorting waste.	-	Area only.	-									
Waste & Recycle Containers	15	3	45	-		-	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).									
Compactor Unit	25	Varies	Varies	-	Area in front of waste and recycle bins where material is separated for containment.	-	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.									
Equipment Supply & Storage	15	1	15	-	Space for cleaning equipment and paper product.	-	Enclosed space.	Assumes container unit.									
Contractor Office	15	1	15	-	Space for management and workforce staging.	-	Enclosed space.	-									
Doping Control																	
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	An Office and storage area will be incorporated into the existing spaces (e.g. waiting area/reception).	J	J	J					R	IOC
Waiting Area/Reception	16	1	16	20	Area where athletes check-in and wait prior to testing.	-	-	-									
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).									
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer. Wash basin for hand sanitisation.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).									
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-	I	J	J					R	IOC

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.					F					P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of staff pre and post shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large group.	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.					F					P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.					F					P	
Information Desk	-	-	-	-	-	-	-	-											
Lost & Found	-	-	-	-	-	-	-	-											
Assisted Listening Device Rental	-	-	-	-	-	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	Adjacent to Public Information.	-	-					F					P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes 12m away from covered search area.	Total number generally 50% of security screening positions.					F					P	
Stroller Storage	72	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	-	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.					F					P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.					F					P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators					F					P	
Spectator Shade & Shelter	1	Varies	Varies	-	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and event services areas.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.					F					P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-					F					P	
Spectator Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators.	-	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.					F					P	
Hand Wash Stations	1	Varies	Varies	6 (per 20 toilets)	A chemical unit used in the absence of potable water.	-	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.					F					P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor IOC	OCOG	Venue Owner/Operator Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Finance																		
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I	F					P		
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Generally located inside venue perimeter and outside venue perimeter.	Area only.	Quantity dependent upon venue capacity.		I	F					P		
Language Services																		
Work Area / Desk	15	1	15	20	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre.	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-			J	J				G	IOC	
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference needs.	-			J	J				G	IOC	
Logistics																		
Logistics Compound	-	1	Varies	500	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access. Secondary Compound Area - an additional compound area may be necessary for staging or storage of equipment that is in close proximity to FOP and/or the finish area.				F				P		
Logistics Centre	40	1	40	-	-	-	Enclosed space.	Assumes container units or tent.										
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-										
Team Staging/Work Area	25	1	25	-	Space for staging and a work area.	-	-	-										
Secure Storage & Equipment Sign-out	12	1	12	-	Area for storage.	-	Storage for tools.	-										
Warehouse Storage	65	1	65	-	Storage area for furniture, fixtures, and equipment (FF&E).	-	Enclosed space.	Assumes tent										
Storage Yard	50	1	50	-	Outside storage area within compound.	-	Area only.	-										
Vehicle Staging	75	1	75	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-										
Fuel Tank(s)	9	Varies	Varies	-	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.										
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.										
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.										
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.										
Material Transfer Area (MTA)	-	1	-	400	An area where packages or other items are delivered when they arrive outside the venue delivery schedule times.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.				F			G	P		
X-Ray Area	18	1	18	36	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.										

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Look of the Games																			
Work Area and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.										P	
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J					J		R	IOC
National Olympic Committee (NOC) Flags	-	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.			J	J				J		R	IOC
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and back of locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J				J	G	R,P	IOC, IF
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals.	-											
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH).	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	-	I	J	J					J	G	R	IOC, L
Backdrop - Press Conference Room	2.2 x 6	1	2.2 x 6	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F		I	I				
Medical Services																			
Athlete Medical	50	1	50	75	An area where Medical provides services to athletes competing at the venue.	Located within the accredited Athlete Area.	Enclosed air-conditioned space.	Assumes container or existing space. Located in or near Athlete Compound	J	J	J					J		S	IF
Reception & Waiting	10	1	10	-	Area where athletes check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	2	16	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Physiotherapy Area(s)	8	1	8	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J					J		S	IF
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.											
Spectator Medical	40	1	40	80	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed air-conditioned space. 1 per 20,000 spectators	Assumes container unit or existing space.			I	F	I	I				P	
Reception & Waiting	10	1	10	-	Area where spectators check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	8	1	8	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	2	16	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Triage Station	9	1	9	18	Additional space to treat minor medical needs of spectators.	-	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.			I	F	I	I				P	
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.				F	I	I				P	
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Paved, graveled or grass area with fence, barricade or rope enclosure.	-				F	I	I				P	

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor IOC	OCOG	Venue Owner/Operator Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation		
Merchandise																			
Office, Cash Room & Work Area	12	1	12	15	An area to manage the retailing of all Olympic merchandise inside the venue.	-	Enclosed space with secure entry.	Assumes container unit or existing space.				F					P		
Storage	15	1	15	20		-	-	Assumes storage containers or existing space.				F						P	
Program Sales Stands/Booths	1	1	1	2		-	Area only.	Units provided by vendor. Quantity and location decided by vendor and OCOG.				F						P	
Merchandise Points of Sale (POS)	6	Varies	Varies	18		Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.	Gross area is per each P.O.S. and includes service area and queue.	I		F						P	
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-		I	J	J				G	R	IOC	
Olympic Family Services																			
Olympic Family Lounge	162	1	162	370	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes tent.	I		I	F			I	G	G	IOC	
Welcome Desk & Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-	-											
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.	-											
Staff/Volunteer Room & Storage	9	1	9	-	On-call waiting area for Protocol staff and equipment storage.	-	-	-											
Dining & Lounge	90	1	90	-	Area for dining and lounge.	-	-	-											
Preparation/Buffer set-up/Beverage Area	45	1	45	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Staff/Volunteer, Athlete, Media)	-											
Toilets	20	1	20	40	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	2 female, 2 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided.			I	F			I	G	G	IOC	
Protocol flags	-	-	-	-	-	-	See Look of the Games	-			J	J			J		R	IOC	
Press Operations																			
Venue Media Centre (VMC)	550	1	550	750	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Confer Welcome desk at the entrance, for information distribution.	Close proximity to Press Tribune, Press Conference room, and Mixed Zone area.	Enclosed space for 110 press and 30 photographers.	Assumes tent.				F					R	IOC	
Reception & Information Desk	24	1	24	-	Equipment storage.	-	-	-											
Storage	6	1	6	-	Operational work space.	-	-	-											
Press Manager Office	12	1	12	-	Operational work space.	-	-	-											
Photo Manager Office	12	1	12	-	Operational work space.	-	-	-											
Olympic News Service (ONS) Work Room or Area	35	1	35	-	Operational work space.	-	Enclosed space.	-											
Info Stations	28	1	28	-	Computer stations and printers.	-	-	-											
Press Work Room or Area	240	1	240	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.											
Photo Work Room or Area	50	1	50	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.	-											
Photographers Check-in & Photo Bib Distribution	12	1	12	-	Area where photographers register and receive/return photo bibs.	-	-	-											
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.											
Lounge/Catering Prep	100	1	100	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-	-											
Toilets	1.5	8	12	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided.											

CYCLING Mountain Bike

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor IOC	OCOG	Venue Owner/Operator Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Press Conference Room	100	1	100	280	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I		F					R	IOC
Seating Area	60	1	60	-	An area for accredited press.	-	Seats and standing room.	-									
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3.6 m table, 8 chairs & step and repeat backdrop.	-									
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-									
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-									
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-			F			I	I		
Mixed Zone	25 linear mtrs.	1	25 linear mtrs.	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I	I	F					R	IOC,IF
Press Tribune	-	-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	-	Tabled seating is fitted out with telephones, television monitors, power and other press facilities (indoor venues). For outdoor venues, these services will exist in VMC.	-									
Press Tabletop Seating	Varies	-	Varies	-	-	Easy access from Venue Media Centre and direct access if possible to Mixed Zone.	<u>In an existing stadium or seating area:</u> 1 seat wide (folding chairs at 60 cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50 cm deep tabletop per position, each position = 2 stadium seats. <u>Temporary Stands:</u> 1 seat (folding chairs at 60 cm spacing) x 2 rows deep of proposed seating system (normally 150 cm-170 cm deep).	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.		I	F				R	IOC,IF	
Press Seating (non-tabled)	Varies	-	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.		I	F					R	IOC,IF
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided									
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-									
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	In close proximity to FOP.	Approx. 60 photographers expected at peak finals periods. Tribune, platform or benches. 60cm wide x 90cm deep per position, multi-row areas require 60cm riser per row.	Power, Wireless and data cabling needed to photo positions on FOP.	J	I	J					R	IOC, IF
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Located at start/finish line and along course. Numbers vary.	Special photo stand may need to be build at start/finish. Vehicle access to photo positions along course essential.	Seating areas are generally not applicable for outdoor venues.	I	I	F					G	IOC
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-									

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Security																			
Security Command Centre	120	1	120	145	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.					I	F				P	
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-											
Security Work Area	15	1	15	-	An area for additional security agencies.	-	-	-											
CCTV Surveillance & Video Desk	15	1	15	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-											
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.											
Radio Dispatch & Monitoring	15	1	15	-	An area for the monitoring and control of security communication and the distribution/return of radios.	-	-	-											
Work Room	50	1	50	-	Open plan of work stations designated for security personnel.	-	-	-											
Secure Storage	10	1	10	-	An area for Security equipment storage.	-	-	-											
Dog Cage(s)	4	Varies	Varies	8 (each)	Holding area for security dogs.	-	Area only for enclosed portable units (e.g. cages)	Dependent on Host City / Country / Risk Assessment						F					
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-				J	J					P	
Briefing and Break Area / Staging Area	140	1	140	170	Area for briefing staff before and after shifts.	-	Enclosed space.	Assumes tent.											
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.				J	J					P	
Vehicle Screening & Sanitisation Area	569	1	569	800	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.				I	F					P	
Vehicle Queue	175	1	175	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-											
Oversized Vehicle Queue	140		140	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-											
Vehicle Sanitisation & Wanding Areas	150		75	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.											
Oversized Vehicle (Truck & Bus) Sanitization	70		70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-											
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.											
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Staging and break enclosed space.	-											
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the Venue Secure Perimeter and/or venue screening area for constituents.	-	-					F	I					
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-				J	J					P	
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-	I		F							P	
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-			F		I					P	
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.				F						P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the Venue Secure Perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	-				F					G	P		
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the Venue Secure Perimeter.	Net area for each screening position will accommodate: 4 Wanding Stations, OR - 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue.												
Athlete / Team	18	1-2	18-36	36-72	-	-	Screening and search area is covered.	-	I		F							I	P	
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	-	-	Entrance can be combined with Athlete and/or Olympic Family.	I		F							I	P	
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	-	-	Entrance can be combined with TO, ENG and/or Press.	I	I	F							I	P	
Broadcast	18	1-2	18-36	45-90	-	-	Screening and search area is covered. Direct access from outside venue perimeter into Broadcast Compound.	Search area is covered. Direct access from outside venue perimeter into Broadcast Compound.				F			I				R	IOC
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	-	-	-												
Press and Photographer	18	1-2	18-36	36-72	-	Located in close proximity if possible to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast) preferably leading directly into Press areas.	-				F							R	IOC
Staff, Volunteer, Contractor & Vendor	18	2-3	36-54	90-135	-	-	-	-				F							G	IOC
Spectator / Sponsors	18	Varies	Varies	54	-	-	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-				F							P	
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.												
Exception Gate	-	-	-	-	Access gate for designated accredited personnel.	Located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.												
X-ray of bags	54	Varies	Varies	100 (each)	Device for screening bags/equipment coming into the venue.	-	-	-			I	F						G	P	
Venue Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	-				F	I						P	
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	Located at each security screening area, 1m to 3m width, sometimes used as a secondary service vehicle exit point.	-												
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m in width, number varies per concourse design.	-												
Staff, Volunteer, Contractor & Vendor	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	-												
Sponsor Services																				
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.			I	F							P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Sport Operations																			
Competition Management	45	1	45	70	A work area for sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located close to Athlete Area and FOP; may be co-located within the Venue Operations Centre.	Enclosed space.	Assumes tent unit(s).	I				F					P	
Competition Manager & Asst. Mngr. Desks	12	1	12	-	An area for the manager and assistant(s) manager.	-	-	-											
Assigned Work Area	15	1	15	-	Open plan of work stations designated for sport personnel.	-	-	-											
Hot Desks	6	1	6	-	Shared work stations.	-	-	-											
Work Area	12	1	12	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-											
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-											
Sport Information	20	1	20	25	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located in Athlete Area.	Enclosed space, waiting area with seating.	Includes: information boards, pigeon holes, Info & Help desk, work area, info terminal stations & storage.	J			J						R	IF
Athlete Shower, Toilet	18	2	36	75	Change-room facilities to accommodate athletes at the venue during competition and training.	Located in Athlete Area.	Enclosed space. Separate male and female facilities.	Assumes container unit.	J			J						R	IF
IF & Sport Meeting Room	30	1	30	45	Meeting facility at the venue for the International Federation and Competition Management.	Located in close proximity to the IF Area and Competition Management area.	Enclosed space.	Shared meeting room area between IF & Sport to serve various meeting needs.	J			J						G	IF
Team Boxes (Athlete Lounge)	3x3	Varies	-	-	Area where team mechanics maintain and repair bicycles.	Located within the secure perimeter and easy access to the FOP.	Enclosed space. 1 box per nation or the mechanic(s).	Assumes tent unit(s). Quantity may vary according to number of countries/teams.	J			J						R	IF
Bike Wash	50	1	50	75	Area where team mechanics can wash equipment (bikes).	Located in Athlete Area. In close proximity to team tents.	Area only.	Water source required and proper drainage required.	J			J						R	IF
FOP Technical Support	3x9 & 3x3	1	72	80	An area where technical support is provided to teams.	Located in Athlete Area.	Covered area only.	Assumes tent unit(s). Bike marking and support services may be included in this area (e.g. eyewear support).	J			J						R	IF
FOP Equipment Storage	75	1	75	100	Storage of equipment required for competition.	Located adjacent to FOP or within close proximity.	-	-	I			F	I					R	IF
FOP Maintenance Equipment Storage/Staging	20	1	20	30	-	Located adjacent to FOP or within close proximity.	-	-	I			F	I					R	IF
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	Reference should be made to UCI current specifications. A course of various terrains that is both technical and open riding. A course with both climbs and descents. Single track sections should have periodic passing sections for riders.	-											
Playing Surface Dimensions or Area	-	-	-	-	-	-	-	Total area required may be greater than playing surface dimension. Start Area: should be sufficient area for staging and other procedures. Generally, a team box is included for each country near start area; an area for pre-race preparations.	F			I						R	IF
Surface	-	-	-	-	-	-	Competition should be held regardless of course terrain and weather conditions on 98% of the course distance. The course distance cannot contain more than 3% of metal surface and free of all artificial obstacles and/or hazards.	-	J			J	I					R	IF
Orientation	-	-	-	-	Orientation of FOP area.	-	Ideally, the course should be shaped like a clover leaf returning close to a main area on each lap.	-	J			J	I					R	IF

CYCLING Mountain Bike

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	FOP	Same as FOP	-											
Athlete Staging	15 x 30	1	450	450	An area where riders will be staged prior to start of race.	Start area of course.	Area only. Metal barricades and one 3x3 tent inside area required.	-	I			F						R	IF
Athlete / Team Seating	-	-	-	-	A designated seating area for athletes.	-	-	-	J	I	J					J			
Same Sport	-	-	-	-	-	-	-	-	J		I	J				I		R	IOC,IF
Different Sport	-	-	-	-	-	-	-	-	I		I	F				I		R	IOC
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	May be required for Sport Staff use. Quantity varies according to athlete numbers.				F						P	
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	Required if FOP is not located near Athlete Area.	Assumes temporary units. Quantity varies according to athlete numbers.				F						P	
International Federation																			
Jury Room	15	1	15	23	This space is utilised for the resolution of protests and appeals after competition.	-	Jury will use this room for appeals.	Assumes tent unit.	I			F						R	IF
Officials Lounge	50	1	50	60	A rest area for officials.	-	Enclosed space.	Assumes tent unit.	J			J						G	IF
Technical Delegates Office & Work Area	15	1	15	20	Office area for Technical Delegates.	-	Enclosed space. 2 Technical Delegates.	-	I		I	F				I		R	IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I		J	J				J		R	IOC,IF
Sport Presentation																			
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.											
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-				F						P	
Announcer Position	3	1	3	-	-	-	-	-				F						P	
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space. Staff Work, Green Room, Entertainer Staging and Dressing and Prop Storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.											

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Technology Operations																			
Technology Help Desk	15	1	15	-	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium Security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support staff & manager.	-				F						P	
Venue Technology Operations (VTO)	25	1	25	-	OCOG Technology Operations area. Operational work space for entire Venue Technology team, including Partners & contractors.	Adjacent to or within Venue Operations Centre (VOC).	Medium Security - lockable room. Air-conditioned as office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	-				F					G	P	
OCOG Venue Technology Work Area	-	1	-	-	Work space for Venue Technology Manager, Assistant Venue Technology Manager, Technology Staffing Manager and associated volunteer(s).	-	-	Work space size may be dependent upon workforce per shift.											
AV Contractor Work Area	-	1	-	-	Work space for AV contractors/Technicians.	-	-	Work space size may be dependent upon workforce per shift.											
IT Provider Work Area	-	1	-	-	Work space for IT staff and "home base" for IT volunteers.	-	-	Work space size may be dependent upon workforce per shift.											
Reprographic Provider Work Area	-	1	-	-	Work space for reprographic contractors/technicians	-	-	Work space size may be dependent upon workforce per shift.											
Mobile Phone Provider Work Area	-	1	-	-	Workspace for mobile phone provider.	-	-	Work space size may be dependent upon workforce per shift. Charging area for Venue Operations workforce phones may be required.											
Wired Communications Provider Work Area	-	1	-	-	Work space for Wired Communications contractors/technicians.	-	-	Work space size may be dependent upon workforce per shift.											
Timing & Scoring/OVR Provider Work Area	-	1	-	-	Work space for OVR/Timing and Scoring contractors/technicians.	-	-	May not be required if adequate working space is allocated in OVR room.											
Radio Distribution Room (RDR)	15	1	15	-	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E & workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).	I			F						P	
Information Technology																			
Computer Equipment Room (CER)	20	1	20	-	Area for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.	I			F					G	P	
Data Local Area Network (LAN) Management Room & Store	25	1	25	-	LAN monitoring room and associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational staff & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces.				F					G	P	

Space <small>(Sub-space(s))</small>	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Telecommunication & Audio Visual																			
Telecomm. Equipment Room (TER) Primary	36	1	36	-	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	Raised flooring is preferable for cabling distribution, but not essential.	I			F						P	
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.	I			F						P	
Telecomm. Operations & Store	25	1	25	-	Operational space for Telecommunications technical staff and associated storage for spare parts.	Adjacent to TER.	As TER with adequate FF&E to support operational staff & storage.	If located adjacent to TER, power supply boards, UPS units & A/C services can be common for both spaces.	I			F						P	
Audio Control Positions	-	-	-	-	-	-	-	-				F					G	P	
Venue	4	1	4	-	Area within Sport Production, location for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Production. Can be on FOP, in stands or in a booth with view to FOP.	High Security. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	Storage for country anthems.											
Press Conference	4	1	4	-	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), air-conditioned, waterproof. Work space & FF&E for operator.	PA system may also be used for Competition Draw if draw is held in Press Conference room.											
Warm-Up Area	0	0	0	-	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Within Warm-up area for Athletes.	Standard/mains power & FF&E.	-											
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-											
Workforce Break/Briefing	2	Varies	Varies	-	Area within Staff Break/Training room where audio control equipment is installed to facilitate meetings/training of large numbers of staff.	Workforce break/dining areas.	Standard/mains power & FF&E.	-											
Video Board Control	4	1	4	-	Location of video control for video board or video projection system. Operations integral with those of Sport Production.	Ideally with Sport Production. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	Requirement based on deployment of Videoboard to ATH (mobile board).				F					G	P	
Wired Communications Control	2	1	2	-	Area of wired communications master control station and support technician. System essential to operations of both Sport Production and Results/FOP management.	Near to or within Sport Production is preferable. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location if located outdoors. Good cable access to FOP, OVR Room, Sport Production, Broadcast Graphics Room & Results Printing required. Workspace & FF&E for one technician, control equipment, spare parts and containers/boxes for equipment.	-				F					G	P	
Temporary PA equipment Room	2 min		2 min	-	Temporary location for installation of PA active equipment (amplifiers etc) for venue PA system.	In existing PA equipment room, if applicable. May be located under venue seating/tribunes if existing room not available.	High Security. Fully redundant power (mains & standby generator) to equipment. Good cable access to speaker location and PA/Audio Control position required. Equipment installed in racks. Each rack set is 1000H x 600W x 600 D maximum.	Number of racks will depend on size of system deployed. Generally venues with large geographic area (outdoor) require larger installation and therefore more racks of amplifier equipment.				F						P	

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Timing, Scoring, & Results Operations																			
Results Data Entry Position	-	-	-	-	Area(s) for event results and/or statistics data entry during competition.	As noted below	High Security. Fully redundant power (mains & generator) with UPS to all results data entry equipment/workstations. Space & FF&E for all data entry personnel & results management staff.	Where data entry occurs outdoors, adequate weather (rain/sun) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
Field of Play	-	-	-	-	Areas/positions for results and/or statistics on the FOP.	Located at control table behind shooter line. Adjacent to Timing & Scoring.	-	May occur as a position on the FOP, or in a room with a view to the FOP.											
Back of House	-	-	-	-	Area back of house where data entry is performed into the OVR/Results System.	Sport Specific, but can be in warm-up or call areas.	-	Generally occurs Back of House, in sport location.											
Timing and Scoring Position					Area(s) for event timing & scoring personnel & equipment during competition.	Sport Specific. However, all locations must have view to FOP	High Security Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards, ball speed guns & OVR room. Space & FF&E for operators and equipment.	Where timing and scoring take place outdoors, adequate weather (rain/sun/snow) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
Control Room	20	1	20	-	Scoring control position for CM. All Timing & scoring equipment & operations	Sport Specific. However, have view to Start-Finish Line. Ideally located within or adjacent to OVR Room.	Cable access to Start location & OVR room.	-											
On Venue Results (OVR)	-	-	-	-	Area is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	Easy access to FOP critical for technical and results staff.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Space & FF&E required for high density of computer workstations, racks for servers and working space for technicians, operators and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or venues where two sports occur concurrently will require more space for additional OVR equipment.	I	F								P	
OVR Provider Work Area	18	1	18	-	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO/CIS/PRD etc).	Ideally adjacent to IT provider work area.	-	-											
IT Provider Work Area	18	1	18	-	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-											
Scoreboard Control	4	1	4	-	Area of scoreboard control operations. Operations integral with those of Sport Production, data provided from OVR System. Space for both Control and Interface workstations and 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.	I	F							G	P	
Scoreboard Control	2	1	2	-	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator and workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-											
Scoreboard Interface	2	1	2	-	Area for interface equipment (PC workstations) linking OVR system and Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-											

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Results Printing (PRD)	70	5	350	-	Area for hard copy results production and distribution. Location of high intensity work involving many staff preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area and position for the Print Distribution Workstation (IDS interface) equipment and operator.	Near/adjacent to Press Workroom, access to Press Tribunes, Broadcast Commentary Positions, Sport Information Desk, Doping & Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specification. Space & FF&E required for equipment and operational staff as well as space for 1 x pallet of paper to support print/copy operations.	Room size is completely dependent on quantity of equipment (results printers and copiers) deployed & staff required per shift to manage results operations. For CM, venue layout over large geographic area may require deployment of 2 x PRD Rooms to facilitate timely delivery of hard copy results.	I	I	I	F				I		R	IF, Swatch
TV Graphics Interface	3	1	3	-	Area where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operators & good cable access to OVR room.	-				I		F			G	P	
Technology Storage																			
Technology General Storage	15	1	15	-	Area for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F					G	P	
IT Bulk Storage	30	1	30	-	Storage area for all spare IT equipment & associated boxes/containers.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to IT provider at all times.				F					G	P	
Reprographic Primary Storage Area	12	1	12	-	Primary storage/technical area in-venue for reprographic provider. Storage for spare parts, additional devices and consumables serving primarily Results Printing Operations.	In venue location adjacent to, or within Results Printing Room.	High Security - lockable. Standard office environment with standard power. Workspace & FF&E for one technician.	-	I		F						G	P	
Reprographic Bulk Storage Area	15	1	15	-	Storage area for bulk paper allocated to venue (multiple pallets).	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of paper required to support venue operations.				F					G	P	
Timing and Scoring Workshop	10	1	10	-	In venue storage and workshop for timing equipment, spare parts and small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.	-	I		F						G	P	
Timing & Scoring Bulk Store	30	1	30	-	Storage area for large crates and containers used for scoreboards and bulk equipment. Must be accessible to OVR provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of Timing & Scoring equipment deployed to venue. May be combined with Timing & Scoring Workshop if location & size of space meet requirements for venue.	I		F						G	P	
Audio Visual Bulk Store	30	1	30	-	Storage area for large crates and containers used for video boards, PA equipment and TV boxes. Must be accessible to Video/Public address provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of audio/video equipment deployed to venue.				F					G	P	
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required to distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closet. CCFs are to be installed in locations that allow for easy access for service technicians and easy cable access from TER room and to user device locations.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Work Room.	High Security - lockable & weatherproof. May require fan or dedicated A/C depending upon room location and / or configuration. Fully redundant power (mains & generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.	I		F							P	

CYCLING Mountain Bike

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of Power from Data/Voice and Audio Visual Cabling	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in a manner which allows for easy access and repair/replacement. Legacy installations are to be installed as permanent while temporary (overlay) should be installed using methods which are easily installed & removed minimising potential damage to existing venue.					F					P		
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.	-	-	"												
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.	-	-	"												
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.	-	-	"												
CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	"												
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	"												
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-												
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-												
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-												
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-												
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-												
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I		F								P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.												
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to Video Control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I		F						S	P		
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the videoboard. Required for outdoor venues where the videoboards cannot be suspended from ceiling structure.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each videoboard.												

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Audio/PA System Infrastructure	-		-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Production on a sport specific basis.	Adequate power, cable pathways to/from boards to Video Control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.		I		F					G	P	
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to / from audio / PA amplification system and / or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cablings) required to suspend PA speakers from venue ceiling structure.	-	-	-											
Mobile Phone Infrastructure (antenna)	-	Varies	-	-	Infrastructure required to support installation of additional radio antenna and mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to / from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.		I		F					G	P	
Ticketing																			
Ticket Box Office	30	1	30	75	An area at the venue where Olympic tickets are sold.	Adjacent to the secure perimeter; near the spectator entry point of the venue	Gross area includes internal & external queue.	Assumes container unit with accessible access to internal and external service window. Dependent upon spectator capacity, venue layout and footprint and spectator access point locations.					F					P	
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	10	1	10	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	4 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s)	10	1	10	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	4 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	25	1	25	50	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.					F					P	
Driver Staging	55	1	55	100	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.					F					P	
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside Venue Secure Perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	12	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-					F					P	
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from each Host City, based on vehicle / bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J						I	P	
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J						I	P	
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.		I	F							P	
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.			F			I				G	IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.			F							G	IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.	I		F							G	IOC
Spectator and Staff Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			F							P	
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.	I		F							P	
Accessible	-	-	-	-	-	-	-	Part of Spectator total.			F							P	

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Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Surface areas paved or gravel.	Venue layout will determine amount of parking available at the venue.										
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have a drop-off in close proximity to accredited entry point and then driver will park.		I	F					P		
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.			F		I			P		
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.			F		I			P		
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-		J	J					P		
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes circulation.			F		I			P		
Emergency Services	-	-	-	50 (each)	-	Generally located inside the Secure Venue Perimeter.	-	Includes circulation.			F		I			P		
Venue Development																		
Site Management Compound	348	1	348	520	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Dependent upon venue footprint, extent of temporary works, and number of contractors.			F					P		
Site Management Area	45	1	45	-	-	-	Enclosed space.	-										
Site Manager & Assistant Site Manager(s) Work Area	12	1	12	-	Work and meeting area for the Site Manager and Assistant Site Manager.	-	-	-										
Site Administration Desk & Work Area	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-	-										
Response Team & Vendor Staging	18	1	18	-	On-site permanent and temporary facilities for specialty staff and general labor crew to be on-call.	-	-	-										
Secure Storage - Site Management	9	1	9	-	Area for storage.	-	-	-										
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.	-	Enclosed space. Area for office, staging and a secure storage area.	Assumes container units or existing space. Contractor usually installs container units at their own cost.										
Sign/Look Staging, Work Space/Secure Storage	35	1	35	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	-	Assumes container unit or existing space.										
Material Warehouse/Construction Work Space	55	1	55	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	-	Enclosed space.	Assumes tent or canopy with 2 side walls. Area for carpentry, painting and general construction. Storage for non-weather proof materials.										
Vendor Secure Storage	30	1	30	-	Area for containers, usually provided by the various temporary construction sub-contractors.	-	Enclosed space.	Assumes container units or existing space.										
Materials Staging Area	30	1	30	-	Area for the off-loading and loading of bulk construction materials.	-	Area only.	-										
Exterior Storage Area	30	1	30	-	Outdoor storage of material and products.	-	Area only.	Weatherproof area for large and bulk materials.										
Vehicle Staging	60	1	60	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	-	Area only.	Service, Repair & Specialty vehicles										
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilet facilities should be provided.										
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.	I	F						P		
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.	-	I	F						P		

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Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.		I		F						P	
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.											
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-	-											
Venue Management																			
Venue Operations Centre (VOC)	45	1	45	70	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Venue capacity and venue layout.				F						P	
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-											
Assigned Desks	15	1	15	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	6	1	6	-	Shared work stations.	-	-	-											
Work Space and Storage	12	1	12	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	30	1	30	40	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.				F						P	
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	15	1	15	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	8-10 people.											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	100	1	100	120	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre	Enclosed space.	Assumes existing space or tent. Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.				F						P	
Workforce																			
Workforce Area	120	1	120	150	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.				F						P	
Check-In Area	76	1	76	-	Area to log-in venue staff and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Area	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	175	1	175	210	The space where workforce meals are served and where workforce can break during their shift.	A location that will provide easy access to all workforce for breaks and meals; will vary according to venue layout/size.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon workforce numbers..				F						P	
END OF DOCUMENT																			

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation					
Accreditation																								
Venue Accreditation Office	50	1	50	125	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Day Pass Issue & Problem Resolution Desk	15	1	15	-																				
Work Area	15	1	15	-																				
Manager Desk or Office & Storage	12	1	12	-																				
Waiting Area	8	1	8	-																				
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	-	Enclosed space. May be required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.																
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Broadcast																								
Broadcast Compound	-	1	-	3000	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements. Located in temporary structure.																
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Broadcast Manager Office	12	1	12	-		-	-	-	-															
Work Room, Assigned & Unassigned Desks	48	1	48	-		-	-	-	-															
Technical Operations Centre	40	1	40	100	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Broadcast Catering	140	1	140	180	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Kitchen & Prep	20	1	20	-		-	-	-	Assumes container unit.															
Buffet Line & Dining	120	1	120	-		-	-	-	Assumes container unit or tent.															
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements.																
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Assumes container units.																
Mobile Unit(s)	65	Varies	Varies	-	-	-	-	-																
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters.																
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Assumes container units.																
Mobile Unit(s)	65	Varies	Varies	-	-	-	-	-																
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.																
Toilets	1.5	8	12	36	Toilet units designated for broadcast personnel.	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Secondary Broadcast Compound	-	-	-	-	Serves as a secondary unit to the main compound to house various broadcast technical needs that are required for Broadcast to cover the full competition FOP or area.	Located adjacent to FOP.	Required on venues where size of FOP or location of Primary Compound exceeds cabling capabilities.	Specific elements are venue/sport specific.																
Toilets	1.5	2	3		Toilet units designated for broadcast personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Commentator Control Room	50	1	50	65	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in close proximity to commentator position area	Enclosed space with incoming television cable.	Assumes existing space or container.																
Broadcast Information Office (BIO)	20	1	20	25	Space for broadcast management and team meetings.	Located near commentator positions and CCR	Enclosed space.	Assumes existing space or container.																
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-																
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.																
Mixed Zone	20 linear mtrs.	1	20 linear mtrs.	120	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Adjacent to the FOP	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.																

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in seating areas with view to FOP and covered when possible.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Outdoor commentator positions should have the option of cover for protection from various weather conditions (e.g. sun, rain). Space for commentator positions may vary according to actual venue/permanent seating setup.			I	J						R	IOC
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	Located at the rear of the commentator grouping so as not to disrupt the FOP view of other commentator positions.	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	A com-cam position equals 2 adjacent commentator positions.			I	J							
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions	1 position = uses 1 seat in existing seating bowls.	-			I	J						R	IOC
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions. The primary source of camera positions are the use of helicopters.	FOP Camera positions are dependent upon production plans and IF approval. Space for camera positions may vary according to actual venue/permanent seating setup.	J		I	J						R	IOC
Camera Position - Other	4	50	200	450	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions. The primary source of camera positions are the use of helicopters.	Space for camera positions may vary according to actual venue/permanent seating setup.	I		I	J						R	IOC
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-					J	I				G	IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	-					J	I				G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in BOH areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.					J	I				G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography, in conjunction with OBS and IFs.	J			J	I					R	IOC
Catering																			
Catering Compound	565	1	565	850	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity.		I		F						P	
Work Areas - Catering Management	28	1	28	-		Generally, located in Catering Compound or possible the VOC.	Enclosed space.	Assumes existing space or container.											
Organising Committee Catering Manager	-	-	-	-			See Venue Management - VOC.	-											
Catering Contractor	16	1	16	-			-	-											
Beverage Contractor	12	1	12	-	Operational work space(s).		-	-											
Dry, Cold & Ice Storage	38	6	228	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.											
Vehicle Staging	90	1	90	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-											
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-											
Kitchen & Preparation Area	80	1	80	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.											
Uncovered Storage	75	1	75	-	Outdoor storage of material and products.	-	Area only.	-											
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilets should be provided.											
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	-											
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container(s). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity, level of catering activity.		I		F						P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	-											
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	-											
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue catering facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-		I		F						P	

CYCLING Road / Time Trial

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Ceremonies																				
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-			I	F							P	
Ceremonies Staging	36	1	36	45	For the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule; to coordinate location of podium, procession, and recession route, and location of flagpoles.	Adjacent to or close to FOP.	Consists of coordinator work space with area for anthem storage, secure storage, preparation and dressing area; see below for additional details.	Assumes existing space or container.			I	F							P	
Manager Desk	6	1	6	-	Work space for Manager.	-	-	-												
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenters, Medal/Flower staging, Secure medal and flag storage	22	1	22	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenter Preparation & Dressing	4	2	8	-	A dressing and preparation area for Presenters.	In close proximity to FOP.	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-												
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	In close proximity to FOP.	Limited use, may be shared with other space. See Sport Presentation.	-												
Awards Podium Storage	12	1	12	15	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	Adjacent to FOP.			I	F							P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.			I	J	J			J	G	R	IOC	
Cleaning and Waste																				
Cleaning & Waste Compound	252	1	252	350	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependent upon venue capacity.					F						P	
Vehicle Staging	72	1	72	-	Parking area for collection vehicles which generally remain inside the venue.	-	Area only.	-												
Sorting Area	72	1	72	-	Area for sorting waste.	-	Area only.	-												
Waste & Recycle Containers	15	4	60	-			Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).												
Compactor Unit	25	Varies	Varies	-	Area in front of waste and recycle bins where material is separated for containment.	-	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.												
Equipment Supply & Storage	15	2	30	-	Space for cleaning equipment and paper product.	-	Enclosed space.	Assumes container unit.												
Contractor Office	18	1	18	-	Space for management and workforce staging.	-	Enclosed space.	-												
Doping Control																				
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	-			J	J	J						R	IOC
Waiting Area/Reception	26	1	26	30	Area where athletes check-in and wait prior to testing.	-	-	-												
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Blood Processing Room(s)	15	Varies	Varies	20 (each)	Area where athlete blood samples are provided and sealed	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer. Wash basin for hand sanitisation.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Office / Storage	12	1	12	15	Work and storage space for Doping Manager.	-	Enclosed space. Secure storage.	-												
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-			I	J	J						R	IOC

CYCLING Road / Time Trial

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Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.					F					P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of staff pre and post shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large group.	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.					F					P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.					F					P	
Information Desk	-	-	-	-	-	-	-	-											
Lost & Found	-	-	-	-	A holding area for items found in the venue.	-	-	-											
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spectators.	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	Adjacent to Public Information.	-	-					F					P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes 12m away from covered search area.	Total number generally 50% of security screening positions.					F					P	
Stroller Storage	72	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	-	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.					F					P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.					F					P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators					F					P	
Spectator Shade & Shelter	1	Varies	Varies	-	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and event services areas.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.					F					P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-					F					P	
Spectator Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators.	-	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.					F					P	
Hand Wash Stations	1	Varies	Varies	6 (per 20 toilets)	A chemical unit used in the absence of potable water.	-	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.					F					P	

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Finance																	
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I	F					P	
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Generally located inside venue perimeter and outside venue perimeter.	Area only.	Quantity dependent upon venue capacity.		I	F					P	
Language Services																	
Work Area / Desk	20	1	20	25	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre.	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-			J	J				G	IOC
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference needs.	-			J	J				G	IOC
Logistics																	
Logistics Compound	-	1	Varies	650	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access. Secondary Compound Area - an additional compound area may be necessary for staging or storage of equipment that is in close proximity to FOP and/or the finish area.				F				P	
Logistics Centre	60	1	60	-	-	-	Enclosed space.	Assumes container units or tent.									
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-									
Team Staging/Work Area	33	1	33	-	Space for staging and a work area.	-	-	-									
Secure Storage & Equipment Sign-out	15	1	15	-	Area for storage.	-	Storage for tools.	-									
Warehouse Storage	90	1	90	-	Storage area for furniture, fixtures, and equipment (FF&E).	-	Enclosed space.	Assumes tent									
Storage Yard	75	1	75	-	Outside storage area within compound.	-	Area only.	-									
Vehicle Staging	100	1	100	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-									
Fuel Tank(s)	9	Varies	Varies	25 (each)	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.									
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.									
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.									
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.									
Material Transfer Area (MTA)	-	1	-	575	An area where packages or other items are delivered when they arrive outside the venue delivery schedule times.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.				F			G	P	
X-Ray Area	36	1	36	72	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.									

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Look of the Games																			
Work Area and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.										P	
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J					J		R	IOC
National Olympic Committee (NOC) Flags	-	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.			J	J				J		R	IOC
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and back of locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J				J	G	R,P	IOC, IF
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals.	-											
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH).	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	-	I	J	J					J	G	R	IOC, L
Backdrop - Press Conference Room	2.2 x 6	1	2.2 x 6	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F		I	I				
Medical Services																			
Athlete Medical	65	1	65	100	An area where Medical provides services to athletes competing at the venue.	Located within the accredited Athlete Area.	Enclosed air-conditioned space.	Assumes container or existing space. Located in or near Athlete Compound	J	J	J					J		S	IF
Reception & Waiting	12	1	12	-	Area where athletes check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Physiotherapy Area(s)	8	2	16	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Athlete Massage Area	30	1	30	40	Area where athlete massage occurs.	Located within the accredited Athlete Area.	-	-	J	J	J					J		S	IF
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J					J		S	IF
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.											
Spectator Medical	50	1	50	100	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed air-conditioned space. 1 per 20,000 spectators	Assumes container unit or existing space.			I	F	I	I				P	
Reception & Waiting	12	1	12	-	Area where spectators check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	12	1	12	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Triage Station	50	1	50	100	Additional space to treat minor medical needs of spectators.	-	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.			I	F	I	I				P	
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.				F	I	I				P	
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Paved, graveled or grass area with fence, barricade or rope enclosure.	-			F	I	I					P	

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor IOC	OCOG	Venue Owner/Operator Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation		
Merchandise																			
Office, Cash Room & Work Area	12	1	12	15	An area to manage the retailing of all Olympic merchandise inside the venue.	-	Enclosed space with secure entry.	Assumes container unit or existing space.				F					P		
Storage	15	3	15	45		-	-	Assumes storage containers or existing space.				F						P	
Program Sales Stands/Booths	1	1	1	2		-	Area only.	Units provided by vendor. Quantity and location decided by vendor and OCOG.				F						P	
Merchandise Points of Sale (POS)	6	Varies	Varies	18		Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.	Gross area is per each P.O.S. and includes service area and queue.		I		F						P	
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-		I	J	J				G	R	IOC	
Olympic Family Services																			
Olympic Family Lounge	319	1	319	700	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes tent.	I		I	F			I	G	G	IOC	
Welcome Desk & Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-	-											
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.	-											
Staff/Volunteer Room & Storage	16	1	-	-	On-call waiting area for Protocol staff and equipment storage.	-	-	-											
Dining & Lounge	190	1	-	-	Area for dining and lounge.	-	-	-											
Preparation/Buffer set-up/Beverage Area	95	1	-	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Staff/Volunteer, Athlete, Media)	-											
Toilets	40	1	40	80	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	4 female, 4 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided.			I	F			I	G	G	IOC	
Protocol flags	-	-	-	-	-	-	See Look of the Games	-			J	J			J		R	IOC	
Press Operations																			
Venue Media Centre (VMC)	550	1	550	750	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Confer	Close proximity to Press Tribune, Press Conference room, and Mixed Zone area.	Enclosed space for 1110 press and 30 photographers.	Assumes tent.				F					R	IOC	
Reception & Information Desk	24	1	24	-	Welcome desk at the entrance, for information distribution.	-	-	-											
Storage	6	1	6	-	Equipment storage.	-	-	-											
Press Manager Office	12	1	12	-	Operational work space.	-	-	-											
Photo Manager Office	12	1	12	-	Operational work space.	-	-	-											
Olympic News Service (ONS) Work Room or Area	35	1	35	-	Operational work space.	-	Enclosed space.	-											
Info Stations	28	1	28	-	Computer stations and printers.	-	-	-											
Press Work Room or Area	240	1	240	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.											
Photo Work Room or Area	50	1	50	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.	-											
Photographers Check-in & Photo Bib Distribution	12	1	12	-	Area where photographers register and receive/return photo bibs.	-	-	-											
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.											
Lounge/Catering Prep	100	1	100	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-	-											
Toilets	1.5	8	12	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided											

CYCLING Road / Time Trial

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor IOC	OCOG	Venue Owner/Operator Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Press Conference Room	100	1	100	210	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I		F					R	IOC
Seating Area	60	1	60	-	An area for accredited press.	-	Seats and standing room.	-									
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3.6 m table, 8 chairs & step and repeat backdrop.	-									
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-									
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-									
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-			F		I	I			
Mixed Zone	25 linear mtrs.	1	25 linear mtrs.	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I	I	F		I	I		R	IOC,IF
Press Tribune	-	-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	-	Tabled seating is fitted out with telephones, television monitors, power and other press facilities (indoor venues). For outdoor venues, these services will exist in VMC.	-									
Press Tabletop Seating	Varies	Varies	Varies	-	-	Easy access from Venue Media Centre and direct access if possible to Mixed Zone.	<u>In an existing stadium or seating area:</u> 1 seat wide (folding chairs at 60 cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50 cm deep tabletop per position, each position = 2 stadium seats. <u>Temporary Stands:</u> 1 seat (folding chairs at 60 cm spacing) x 2 rows deep of proposed seating system (normally 150 cm-170 cm deep).	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.		I	F		I	I		R	IOC,IF
Press Seating (non-tabled)	Varies	Varies	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.		I	F			I		R	IOC,IF
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided									
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-									
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	Motor cycle carries pool photographer on the FOP. Numbers vary according to course/competition management.	60cm wide x 90cm deep per position, multi-row areas require 60cm riser per row.	Power, Wireless and data cabling needed to photo positions on FOP.	J	I	J		I	J		R	IOC, IF
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Located at start/finish line and along course. Numbers vary.	Special photo stand may need to be built at start/finish.	Seating areas are generally not applicable for outdoor venues.	I	I	F		I	I		G	IOC
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-									

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Security																			
Security Command Centre	120	1	120	145	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.					I	F				P	
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-											
Security Work Area	15	1	15	-	An area for additional security agencies.	-	-	-											
CCTV Surveillance & Video Desk	15	1	15	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-											
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.											
Radio Dispatch & Monitoring	15	1	15	-	An area for the monitoring and control of security communication and the distribution/return of radios.	-	-	-											
Work Room	50	1	50	-	Open plan of work stations designated for security personnel.	-	-	-											
Secure Storage	10	1	10	-	An area for Security equipment storage.	-	-	-											
Dog Cage(s)	4	Varies	Varies	8 (each)	Holding area for security dogs.	-	Area only for enclosed portable units (e.g. cages)	Dependent on Host City / Country / Risk Assessment						F					
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-				J	J					P	
Briefing and Break Area / Staging Area	140	1	140	170	Area for briefing staff before and after shifts.	-	Enclosed space.	Assumes tent.											
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.				J	J					P	
Vehicle Screening & Sanitisation Area	569	1	569	800	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.				I	F					P	
Vehicle Queue	175	1	175	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-											
Oversized Vehicle Queue	140		140	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-											
Vehicle Sanitisation & Wanding Areas	150		75	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.											
Oversized Vehicle (Truck & Bus) Sanitization	70		70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-											
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.											
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Staging and break enclosed space.	-											
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the Venue Secure Perimeter and/or venue screening area for constituents.	-	-					F	I					
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-				J	J					P	
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-	I			F						P	
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-				F		I				P	
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.				F						P	

CYCLING Road / Time Trial

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the Venue Secure Perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	-				F					G	P		
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the Venue Secure Perimeter.	Net area for each screening position will accommodate: 4 Wanding Stations, OR - 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue.												
Athlete / Team	18	1-2	18-36	36-72	-	-	Screening and search area is covered.	-	I		F							I	P	
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	-	-	Entrance can be combined with Athlete and/or Olympic Family.	I		F							I	P	
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	-	-	Entrance can be combined with TO, ENG and/or Press.	I	I	F							I	P	
Broadcast	18	1-2	18-36	45-90	-	-	Screening and search area is covered. Direct access from outside venue perimeter into Broadcast Compound.	Search area is covered. Direct access from outside venue perimeter into Broadcast Compound.				F			I				R	IOC
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	-	-	-												
Press and Photographer	18	1-2	18-36	36-72	-	Located in close proximity if possible to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast) preferably leading directly into Press areas.	-				F							R	IOC
Staff, Volunteer, Contractor & Vendor	18	2-3	36-54	90-135	-	-	-	-				F							G	IOC
Spectator / Sponsors	18	Varies	Varies	54	-	-	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-				F							P	
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.												
Exception Gate	-	-	-	-	Access gate for designated accredited personnel.	Located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.												
X-ray of bags	54	Varies	Varies	100 (each)	Device for screening bags/equipment coming into the venue.	-	-	-			I	F						G	P	
Venue Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	-				F	I						P	
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	Located at each security screening area, 1m to 3m width, sometimes used as a secondary service vehicle exit point.	-												
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m in width, number varies per concourse design.	-												
Staff, Volunteer, Contractor & Vendor	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	-												
Sponsor Services																				
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.			I	F							P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Sport Operations																			
Competition Management	60	1	60	90	A work area for Sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located close to Athlete Area and FOP; may be co-located within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space.	I				F					P	
Competition Manager & Asst. Mngr. Desks	12	1	12	-	An area for the Manager and Assistant(s) Manager.	-	-	-											
Assigned Work Area	20	1	20	-	Open plan of work stations designated for Sport personnel.	-	-	-											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Area	18	1	18	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-											
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-											
Sport Information	20	1	20	30	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located in Athlete Area.	Enclosed space with waiting area and seating.	Includes: information boards, pigeon holes, Info & Help desk, work area, info terminal stations & storage.	J			J				J		R	IF
IF & Sport Meeting Room	30	1	30	45	Meeting facility at the venue for the International Federation and Competition Management.	Located in close proximity to the IF Area and Competition Management area.	Enclosed space.	Shared meeting room area between IF & Sport to serve various meeting needs.	J			J						G	IF
Team Tents / Box(s)	3x3	42	504	600	Area where team mechanics maintain and repair bicycles, ensure the feed zone of the athletes.	Located within the secure perimeter and easy access to the FOP.	Enclosed space.	Assumes tent unit(s). Quantity may vary according to number/size of country/teams.	J			J						R	IF
Sport Equipment Storage	15	1	15	25	Storage for athlete/team sport equipment.	Located adjacent to FOP or within close proximity.	Area/boxes for equipment storage.	-	J			J	I			I		R	IF
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	Reference should be made to UCI current specifications. Ideal course will include climbs, descents and flat sections or road. Climbs can be somewhat severe; sharp bends/turns should be avoided that have the possible risk of crashes.	-											
Playing Surface Dimensions or Area	13-17km	1	13-17km	-	-	-	Length of Road Course = 13-17km. Course width = 6 metres minimum; Finish line width = 8 metres minimum is required for the last 500 metres before and 100 metres after the finish line.	Total area required may be greater than playing surface dimension.	F			I						R	IF
Surface	-	-	-	-	-	-	Tarmac road surface.	-	J			J	I					R	IF
Orientation	-	-	-	-	Orientation of FOP area.	-	-	-	J			J	I					R	IF
Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	-	-	-											
Warm-up Surface Dimensions or Area	-	-	-	-	-	-	Use of road course for warm-up. Time trial should have an area of 400m or more to perform warm-ups.	Total area required may be greater than playing surface dimension.	J			J						R	IF
Surface	-	-	-	-	-	-	-	-	J			J	I					R	IF
Orientation	-	-	-	-	Orientation of warm-up area.	-	-	-	I			F	I					R	IF
Athlete Staging	15 x 30	1	450	450	An area where riders will be staged prior to start of race.	Start area of course.	Area only. Metal barricades, umbrellas and one 3x3 tent inside area required.	-	I			F						R	IF
Athlete / Team Seating	-	-	-	-	A designated seating area for athletes.	-	-	-	J			I	J						
Same Sport	-	Varies	-	-	-	-	-	-	J			I	J					R	IOC,IF
Different Sport	-	Varies	-	-	-	-	-	-	I			I	F					R	IOC
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	May be required for Sport Staff use. Quantity varies according to athlete numbers.					F					P	
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	Required if FOP is not located near Athlete Area.	Assumes temporary units. Quantity varies according to athlete numbers.					F					P	
International Federation																			
Jury Room	45	1	45	50	This space is utilised for the resolution of protests and appeals after competition.	-	Enclosed space.	Assumes container units or existing space.	I			F						R	IF
Lounge - International Technical Officials	20	1	20	25	A rest area for officials.	-	Enclosed space.	Assumes container units or existing space.	J			J						G	IF
Technical Delegates Office & Work Area	15	1	15	20	Office area for Technical Delegates.	-	Enclosed space. 2 Technical Delegates.	-	I			I	F					R	IF
Appeals Room	15	1	15	20	A room to listen to protests.	-	Enclosed space.	-	I			I	F					R	IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I			J	J					R	IOC,IF

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Sport Presentation																			
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.											
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-				F							P
Announcer Position	3	1	3	-	-	-	-	-				F							P
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space. Staff Work, Green Room, Entertainer Staging and Dressing and Prop Storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.											
Technology Operations																			
Technology Help Desk	16	1	16	-	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium Security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support staff & manager.	-				F							P
Venue Technology Operations (VTO)	25	1	25	-	OCOG Technology Operations area. Operational work space for entire Venue Technology team, including Partners & contractors.	Adjacent to or within Venue Operations Centre (VOC).	Medium Security - lockable room. Air-conditioned as office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	-				F					G		P
OCOG Venue Technology Work Area	-	1	-	-	Work space for Venue Technology Manager, Assistant Venue Technology Manager, Technology Staffing Manager and associated volunteer(s).	-	-	Work space size may be dependent upon workforce per shift.											
AV Contractor Work Area	-	1	-	-	Work space for AV contractors/Technicians.	-	-	Work space size may be dependent upon workforce per shift.											
IT Provider Work Area	-	1	-	-	Work space for IT staff and "home base" for IT volunteers.	-	-	Work space size may be dependent upon workforce per shift.											
Reprographic Provider Work Area	-	1	-	-	Work space for reprographic contractors/technicians	-	-	Work space size may be dependent upon workforce per shift.											
Mobile Phone Provider Work Area	-	1	-	-	Workspace for mobile phone provider.	-	-	Work space size may be dependent upon workforce per shift. Charging area for Venue Operations workforce phones may be required.											
Wired Communications Provider Work Area	-	1	-	-	Work space for Wired Communications contractors/technicians.	-	-	Work space size may be dependent upon workforce per shift.											
Timing & Scoring/OVR Provider Work Area	-	1	-	-	Work space for OVR/Timing and Scoring contractors/technicians.	-	-	May not be required if adequate working space is allocated in OVR room.											
Radio Distribution Room (RDR)	15	1	15	-	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E & workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).	I			F							P
Information Technology																			
Computer Equipment Room (CER)	20	1	20	-	Area for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. Air-conditioned to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.	I			F					G		P
Data Local Area Network (LAN) Management Room & Store	25	1	25	-	LAN monitoring room and associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational staff & storage.	If located adjacent to CER, power supply boards, UPS units & air-conditioning services can be common for both spaces.				F					G		P

CYCLING Road / Time Trial

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space <small>(Sub-space(s))</small>	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Telecommunication & Audio Visual																			
Telecomm. Equipment Room (TER) Primary	36	1	36	-	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. Air-conditioned to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	Raised flooring is preferable for cabling distribution, but not essential.	I		F							P	
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.	I		F							P	
Telecomm. Operations & Store	25	1	25	-	Operational space for Telecommunications technical staff and associated storage for spare parts.	Adjacent to TER.	As TER with adequate FF&E to support operational staff & storage.	If located adjacent to TER, power supply boards, UPS units & air-conditioning services can be common for both spaces.	I		F							P	
Audio Control Positions	-	-	-	-	-	-	-	-			F						G	P	
Venue	4	1	4	-	Area within Sport Production, location for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Production. Can be on FOP, in stands or in a booth with view to FOP.	High Security. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	Storage for country anthems.											
Press Conference	4	1	4	-	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), air-conditioned, waterproof. Work space & FF&E for operator.	PA system may also be used for Competition Draw if draw is held in Press Conference room.											
Warm-Up Area	0	0	0	-	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Within Warm-up area for Athletes.	Standard/mains power & FF&E.	-											
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-											
Workforce Break/Briefing	2	Varies	Varies	-	Area within Staff Break/Training room where audio control equipment is installed to facilitate meetings/training of large numbers of staff.	Workforce break/dining areas.	Standard/mains power & FF&E.	-											
Video Board Control	4	1	4	-	Area of video control for video board or video projection system. Operations integral with those of Sport Production.	Ideally with Sport Production. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	-				F					G	P	
Wired Communications Control	2	1	2	-	Area of wired communications master control station and support technician. System essential to operations of both Sport Production and Results/FOP management.	Near to or within Sport Production is preferable. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location if located outdoors. Good cable access to FOP, OVR Room, Sport Production, Broadcast Graphics Room & Results Printing required. Workspace & FF&E for one technician, control equipment, spare parts and containers/boxes for equipment.	-				F					G	P	
Temporary PA equipment Room	2 min	1	2 min	-	Temporary location for installation of PA active equipment (amplifiers etc) for venue PA system.	In existing PA equipment room, if applicable. May be located under venue seating/tribunes if existing room not available.	High Security. Fully redundant power (mains & standby generator) to equipment. Good cable access to speaker location and PA/Audio Control position required. Equipment installed in racks. Each rack set is 1000H x 600W x 600 D maximum.	Number of racks will depend on size of system deployed. Generally venues with large geographic area (outdoor) require larger installation and therefore more racks of amplifier equipment.										P	

CYCLING Road / Time Trial

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Timing, Scoring, & Results Operations																			
Results Data Entry Position	-	-	-	-	Area(s) for event results and/or statistics data entry during competition.	As noted below	High Security. Fully redundant power (mains & generator) with UPS to all results data entry equipment/workstations. Space & FF&E for all data entry personnel & results management staff.	Where data entry occurs outdoors, adequate weather (rain/sun) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
Field of Play	0	0	0	-	Area/position for results data entry & "spy camera" control operations.	Position located at Technical Table with sport results & sport/team officials.	-	May occur as a position on the FOP, or in a room with a view to the FOP.											
Timing and Scoring Position	-	-	-	-	Area(s) for event timing & scoring personnel & equipment during competition.	Sport Specific. However, all locations must have view to FOP	High Security Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards, ball speed guns & OVR room. Space & FF&E for operators and equipment.	Where timing and scoring take place outdoors, adequate weather (rain/sun/snow) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
Control Room	20	1	20	-	-	Sport Specific. However, have view to Start-Finish Line. Ideally located within or adjacent to OVR Room.	Scoring control position for CR. All Timing & scoring equipment & backup-up C system.	-											
On Venue Results (OVR)	-	-	-	-	Area is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	Easy access to FOP critical for technical and results staff.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. Air-conditioned to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Space & FF&E required for high density of computer workstations, racks for servers and working space for technicians, operators and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or venues where two sports occur concurrently will require more space for additional OVR equipment.	I	F								P	
OVR Provider Work Area	18	1	18	-	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO/CIS/PRD etc).	Ideally adjacent to IT provider work area.	-	-											
IT Provider Work Area	18	1	18	-	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-											
Scoreboard Control	-	-	-	-	Area of scoreboard control operations. Operations integral with those of Sport Production, data provided from OVR System. Space for both Control and Interface workstations and 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. Air-conditioned to meet OVR provider specification. Cable access to scoreboards, & OVR room. Space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.	I	F							G	P	
Scoreboard Control	2	1	2	-	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator and workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-											
Scoreboard Interface	2	1	2	-	Area for interface equipment (PC workstations) linking OVR system and Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-											

CYCLING Road / Time Trial

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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Results Printing (PRD)	70	1	70	-	Area for hard copy results production and distribution. Location of high intensity work involving many staff preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area and position for the Print Distribution Workstation (IDS interface) equipment and operator.	Near/adjacent to Press Workroom, access to Press Tribunes, Broadcast Commentary Positions, Sport Information Desk, Doping & Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. Air-conditioned to meet IT/OVR provider specification. Space & FF&E required for equipment and operational staff as well as space for 1 x pallet of paper to support print/copy operations.	-	I	I	I	F				I		R	IF, Swatch
TV Graphics Interface	3	1	3	-	Area where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operators & good cable access to OVR room.	-				I		F			G	P	
Technology Storage																			
Technology General Storage	15	1	15	-	Area for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F					G	P	
IT Bulk Storage	30	1	30	-	Storage area for all spare IT equipment & associated boxes/containers.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to IT provider at all times.				F					G	P	
Reprographic Primary Storage Area	12	1	12	-	Primary storage/technical area in-venue for reprographic provider. Storage for spare parts, additional devices and consumables serving primarily Results Printing Operations.	In venue location adjacent to, or within Results Printing Room.	High Security - lockable. Standard office environment with standard power. Workspace & FF&E for one technician.	-	I		F						G	P	
Reprographic Bulk Storage Area	15	1	15	-	Storage area for bulk paper allocated to venue (multiple pallets).	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of paper required to support venue operations.				F					G	P	
Timing and Scoring Workshop	10	1	10	-	In venue storage and workshop for timing equipment, spare parts and small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.	-	I		F						G	P	
Timing & Scoring Bulk Store	30	1	30	-	Storage area for large crates and containers used for scoreboards and bulk equipment. Must be accessible to OVR provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of Timing & Scoring equipment deployed to venue. May be combined with Timing & Scoring Workshop if location & size of space meet requirements for venue.	I		F						G	P	
Audio Visual Bulk Store	15	1	15	-	Storage area for large crates and containers used for video boards, PA equipment and TV boxes. Must be accessible to Video/Public address provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of audio/video equipment deployed to venue.				F					G	P	
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required to distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closet. CCFs are to be installed in locations that allow for easy access for service technicians and easy cable access from TER room and to user device locations.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Work Room.	High Security - lockable & weatherproof. May require fan or dedicated A/C depending upon room location and / or configuration. Fully redundant power (mains & generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.	I		F							P	

CYCLING Road / Time Trial

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Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of Power from Data/Voice and Audio Visual Cabling	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in a manner which allows for easy access and repair/replacement. Legacy installations are to be installed as permanent while temporary (overlay) should be installed using methods which are easily installed & removed minimising potential damage to existing venue.					F					P		
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.	-	-	"												
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.	-	-	"												
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.	-	-	"												
CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	"												
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	"												
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-												
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-												
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-												
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-												
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-												
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I		F								P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.												
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to Video Control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I		F								P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the videoboard. Required for outdoor venues where the videoboards cannot be suspended from ceiling structure.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each videoboard.												

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Audio/PA System Infrastructure	-		-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Production on a sport specific basis.	Adequate power, cable pathways to/from boards to Video Control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.		I		F					G	P	
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to / from audio / PA amplification system and / or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cablings) required to suspend PA speakers from venue ceiling structure.	-	-	-											
Mobile Phone Infrastructure (antenna)	-	Varies	-	-	Infrastructure required to support installation of additional radio antenna and mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to / from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.		I		F					G	P	
Ticketing																			
Ticket Box Office	40	1	40	100	An area at the venue where Olympic tickets are sold.	Adjacent to the secure perimeter; near the spectator entry point of the venue	Gross area includes internal & external queue.	Assumes container unit with accessible access to internal and external service window. Dependent upon spectator capacity, venue layout and footprint and spectator access point locations.					F					P	
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	15	1	15	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s)	15	1	15	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	25	1	25	50	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.					F					P	
Driver Staging	80	1	80	150	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.					F					P	
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside Venue Secure Perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	20	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-					F					P	
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from each Host City, based on vehicle / bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J						I	P	
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J						I	P	
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.		I	F							P	
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.			F			I				G	IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.			F							G	IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.	I		F							G	IOC
Spectator and Staff Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			F							P	
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.	I		F							P	
Accessible	-	-	-	-	-	-	-	Part of Spectator total.			F							P	

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Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Surface areas paved or gravel.	Venue layout will determine amount of parking available at the venue.									
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have a drop-off in close proximity to accredited entry point and then driver will park.		I	F					P	
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.			F		I			P	
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.			F		I			P	
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-		J	J					P	
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes circulation.			F		I			P	
Emergency Services	-	-	-	50 (each)	-	Generally located inside the Secure Venue Perimeter.	-	Includes circulation.			F		I			P	
Venue Development																	
Site Management Compound	503	1	503	650	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Dependent upon venue footprint, extent of temporary works, and number of contractors.			F					P	
Site Management Area	60	1	60	-	-	-	Enclosed space.	-									
Site Manager & Assistant Site Manager(s) Work Area	12	1	12	-	Work and meeting area for the Site Manager and Assistant Site Manager.	-	-	-									
Site Administration Desk & Work Area	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-	-									
Response Team & Vendor Staging	24	1	24	-	On-site permanent and temporary facilities for specialty staff and general labor crew to be on-call.	-	-	-									
Secure Storage - Site Management	12	1	12	-	Area for storage.	-	-	-									
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.	-	Enclosed space. Area for office, staging and a secure storage area.	Assumes container units or existing space. Contractor usually installs container units at their own cost.									
Sign/Look Staging, Work Space/Secure Storage	50	1	50	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	-	Assumes container unit or existing space.									
Material Warehouse/Construction Work Space	80	1	80	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	-	Enclosed space.	Assumes tent or canopy with 2 side walls. Area for carpentry, painting and general construction. Storage for non-weather proof materials.									
Vendor Secure Storage	60	1	60	-	Area for containers, usually provided by the various temporary construction sub-contractors.	-	Enclosed space.	Assumes container units or existing space.									
Materials Staging Area	50	1	50	-	Area for the off-loading and loading of bulk construction materials.	-	Area only.	-									
Exterior Storage Area	50	1	50	-	Outdoor storage of material and products.	-	Area only.	Weatherproof area for large and bulk materials.									
Vehicle Staging	90	1	90	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	-	Area only.	Service, Repair & Specialty vehicles									
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilet facilities should be provided.									
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.	I	F						P	
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.	-	I	F						P	

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Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.		I		F						P	
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.											
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-	-											
Venue Management																			
Venue Operations Centre (VOC)	60	1	60	90	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Venue capacity and venue layout.				F						P	
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-											
Assigned Desks	20	1	20	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Space and Storage	18	1	18	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	40	1	40	50	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.				F						P	
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	24	1	24	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	-											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	150	1	150	180	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre	Enclosed space.	Assumes existing space or tent. Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.				F						P	
Workforce																			
Workforce Area	150	1	150	180	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.				F						P	
Check-In Area	96	1	96	-	Area to log-in venue staff and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Area	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	335	1	335	400	The space where workforce meals are served and where workforce can break during their shift.	A location that will provide easy access to all workforce for breaks and meals; will vary according to venue layout/size.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon workforce numbers..				F						P	
END OF DOCUMENT																			

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Accreditation																								
Venue Accreditation Office																								
	50	1	50	125	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Day Pass Issue & Problem Resolution Desk	15	1	15	-																			P	
Work Area	15	1	15	-																				
Manager Desk or Office & Storage	12	1	12	-																				
Waiting Area	8	1	8	-																				
Secondary Accreditation Office																								
	9	1	9	30	Same as above but with minimal operations taking place.	-	Enclosed space. May be required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.												P				
Toilets																								
	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Broadcast																								
Broadcast Compound																								
	-	1	-	3000	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements. Located in temporary structure.												R	IOC			
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Assumes container/trailer unit or tent.													G	IOC		
Broadcast Manager Office	12	1	12	-		-	-	-	-															
Work Room, Assigned & Unassigned Desks	48	1	48	-		-	-	-	-															
Technical Operations Centre	40	1	40	100	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.														R	IOC	
Broadcast Catering	140	1	140	180	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Kitchen & Prep	20	1	20	-		-	-	-	Assumes container unit.															
Buffet Line & Dining	120	1	120	-		-	-	-	Assumes container unit or tent.															
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements.																
Work Area(s)	20	Varies	Varies	-		-	-	Enclosed space.	Assumes container units.															
Mobile Unit(s)	65	Varies	Varies	-		-	-	-	-															
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters.																
Work Area(s)	20	Varies	Varies	-		-	-	Enclosed space.	Assumes container units.															
Mobile Unit(s)	65	Varies	Varies	-		-	-	-	-															
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.																
Toilets	1.5	8	12	36	Toilet units designated for broadcast personnel.	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Commentator Control Room																								
	60	1	60	75	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in close proximity to commentator position area	Enclosed space with incoming television cable.	Assumes existing space or container.														R	IOC	
Broadcast Information Office (BIO)																								
	25 linear mtrs.	1	25 linear mtrs.	25	Space for broadcast management and team meetings.	Located near commentator positions and CCR	Enclosed space.	Assumes existing space or container.															R	IOC
Broadcast Graphics Support Room																								
	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-															G	IOC
Pre & Post Competition Interview Area																								
	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J				J	J							R	IOC
Mixed Zone																								
	20 linear mtrs.	1	20 linear mtrs.	120	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Adjacent to the FOP	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I	I	J				J	I							R	IOC, IF

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Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in seating areas with view to FOP and covered when possible.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Outdoor commentator positions should have the option of cover for protection from various weather conditions (e.g. sun, rain). Space for commentator positions may vary according to actual venue/permanent seating setup.			I	J						R	IOC
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	Located at the rear of the commentator grouping so as not to disrupt the FOP view of other commentator positions.	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	A com-cam position equals 2 adjacent commentator positions.			I	J							
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions	1 position = uses 1 seat in existing seating bowls.				I	J						R	IOC
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval. Space for camera positions may vary according to actual venue/permanent seating setup.	J		I	J						R	IOC
Camera Position - Other	4	30	120	270	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	Space for camera positions may vary according to actual venue/permanent seating setup.	I		I	J						R	IOC
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-					J	I				G	IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	-				J	I		J			G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in BOH areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.					J	I		J		G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography, in conjunction with OBS and IFs.	J			J	I		J	I		R	IOC
Catering																			
Catering Compound	565	1	565	850	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity.		I			F					P	
Work Areas - Catering Management	28	1	28	-		Generally, located in Catering Compound or possible the VOC.	Enclosed space.	Assumes existing space or container.											
Organising Committee Catering Manager	-	-	-	-			See Venue Management - VOC.	-											
Catering Contractor	16	1	16	-			-	-											
Beverage Contractor	12	1	12	-	Operational work space(s).		-	-											
Dry, Cold & Ice Storage	38	6	228	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.											
Vehicle Staging	90	1	90	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-											
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-											
Kitchen & Preparation Area	80	1	80	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.											
Uncovered Storage	75	1	75	-	Outdoor storage of material and products.	-	Area only.	-											
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilets should be provided.											
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	-											
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container(s). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity, level of catering activity.		I		F						P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	-											
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	-											
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue catering facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-	I		F							P	

CYCLING Track / BMX

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Ceremonies																			
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-			I	F						P	
Ceremonies Staging	36	1	36	45	For the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule; to coordinate location of podium, procession, and recession route, and location of flagpoles.	Adjacent to or close to FOP.	Consists of coordinator work space with area for anthem storage, secure storage, preparation and dressing area; see below for additional details.	Assumes existing space or container.			I	F						P	
Manager Desk	6	1	6	-	Work space for Manager.	-	-	-											
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.											
Presenters, Medal/Flower staging, Secure medal and flag storage	22	1	22	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.											
Presenter Preparation & Dressing	4	2	8	-	A dressing and preparation area for Presenters.	In close proximity to FOP.	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-											
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	In close proximity to FOP.	Limited use, may be shared with other space. See Sport Presentation.	-											
Awards Podium Storage	12	1	12	15	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	Adjacent to FOP.			I	F						P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.	I		J	J				J	G	R	IOC
Cleaning and Waste																			
Cleaning & Waste Compound	252	1	252	350	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependent upon venue capacity.					F					P	
Vehicle Staging	72	1	72	-	Parking area for collection vehicles which generally remain inside the venue.	-	Area only.	-											
Sorting Area	72	1	72	-	Area for sorting waste.	-	Area only.	-											
Waste & Recycle Containers	15	4	60	-	Area in front of waste and recycle bins where material is separated for containment.	-	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).											
Compactor Unit	25	Varies	Varies	-	Area in front of waste and recycle bins where material is separated for containment.	-	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.											
Equipment Supply & Storage	15	2	30	-	Space for cleaning equipment and paper product.	-	Enclosed space.	Assumes container unit.											
Contractor Office	18	1	18	-	Space for management and workforce staging.	-	Enclosed space.	-											
Doping Control																			
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	-	J		J	J						R	IOC
Waiting Area/Reception	26	1	26	30	Area where athletes check-in and wait prior to testing.	-	-	-											
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).											
Blood Processing Room(s)	15	Varies	Varies	20 (each)	Area where athlete blood samples are provided and sealed	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).											
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer. Wash basin for hand sanitisation.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).											
Office / Storage	12	1	12	15	Work and storage space for Doping Manager.	-	Enclosed space. Secure storage.	-											
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-	I		J	J						R	IOC

CYCLING Track / BMX

Principles of Stakeholder Involvement:
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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.					F					P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of staff pre and post shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large group.	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.					F					P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.					F					P	
Information Desk	-	-	-	-	-	-	-	-											
Lost & Found	-	-	-	-	-	-	-	-											
Assisted Listening Device Rental	-	-	-	-	-	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	Adjacent to Public Information.	-	-					F					P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes 12m away from covered search area.	Total number generally 50% of security screening positions.					F					P	
Stroller Storage	72	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	-	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.					F					P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.					F					P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators					F					P	
Spectator Shade & Shelter	1	Varies	Varies	-	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and event services areas.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.					F					P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-					F					P	
Spectator Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators.	-	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.					F					P	
Hand Wash Stations	1	Varies	Varies	6 (per 20 toilets)	A chemical unit used in the absence of potable water.	-	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.					F					P	

CYCLING Track / BMX

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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Finance																			
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I		F						P	
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Generally located inside venue perimeter and outside venue perimeter.	Area only.	Dependent upon spectator capacity.											
Language Services																			
Work Area / Desk	20	1	20	25	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre.	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-			J	J						G	IOC
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference needs.	Quantity dependent upon venue capacity.		I		F						P	
Logistics																			
Logistics Compound	-	1	Varies	650	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access. Secondary Compound Area - an additional compound area may be necessary for staging or storage of equipment that is in close proximity to FOP and/or the finish area.										P	
Logistics Centre	60	1	60	-	-	-	Enclosed space.	Assumes container units or tent.											
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-											
Team Staging/Work Area	33	1	33	-	Space for staging and a work area.	-	-	-											
Secure Storage & Equipment Sign-out	15	1	15	-	Area for storage.	-	Storage for tools.	-											
Warehouse Storage	90	1	90	-	Storage area for furniture, fixtures, and equipment (FF&E).	-	Enclosed space.	Assumes tent											
Storage Yard	75	1	75	-	Outside storage area within compound.	-	Area only.	-											
Vehicle Staging	100	1	100	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-											
Fuel Tank(s)	9	Varies	Varies	25 (each)	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.											
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.											
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.											
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.											
Material Transfer Area (MTA)	-	1	-	575	An area where packages or other items are delivered when they arrive outside the venue delivery schedule times.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.					F				G	P	
X-Ray Area	36	1	36	72	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.											

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Look of the Games																			
Work Area and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.										P	
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J		J	J				J		R	IOC
National Olympic Committee (NOC) Flags	-	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.				J	J			J		R	IOC
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and back of locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J				J	G	R, P	IOC, IF
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals.	-											
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH).	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	-		I	J	J				J	G	R	IOC, L
Backdrop - Press Conference Room	2.2 x 6	1	2.2 x 6	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F			I	I			
Medical Services																			
Athlete Medical	65	1	65	100	An area where Medical provides services to athletes competing at the venue.	Located within the accredited Athlete Area.	Enclosed air-conditioned space.	Assumes container or existing space. Located in or near Athlete Compound	J		J	J				J		S	IF
Reception & Waiting	12	1	12	-	Area where athletes check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Physiotherapy Area(s)	8	2	16	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Athlete Massage Area	30	1	30	40	Area where athlete massage occurs.	Located within the accredited Athlete Area.	-	-	J		J	J				J		S	IF
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J		J	J				J		S	IF
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.											
Spectator Medical	50	1	50	100	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed air-conditioned space. 1 per 20,000 spectators	Assumes container unit or existing space.										P	
Reception & Waiting	12	1	12	-	Area where spectators check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	12	1	12	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Triage Station	50	1	50	100	Additional space to treat minor medical needs of spectators.	-	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.										P	
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.										P	
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Paved, graveled or grass area with fence, barricade or rope enclosure.	-										P	

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Merchandise																				
Office, Cash Room & Work Area	12	1	12	15	An area to manage the retailing of all Olympic merchandise inside the venue.	-	Enclosed space with secure entry.	Assumes container unit or existing space.				F						P		
Storage	15	3	15	45		-	-	Assumes storage containers or existing space.				F							P	
Program Sales Stands/Booths	1	1	1	2		-	Area only.	Units provided by vendor. Quantity and location decided by vendor and OCOG.				F							P	
Merchandise Points of Sale (POS)	6	Varies	Varies	18		Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.	Gross area is per each P.O.S. and includes service area and queue.		I		F							P	
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-		I	J	J						G	R	IOC
Olympic Family Services																				
Olympic Family Lounge	319	1	319	700	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes tent.	I		I	F					I	G	G	IOC
Welcome Desk & Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-	-												
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.	-												
Staff/Volunteer Room & Storage	16	1	-	-	On-call waiting area for Protocol staff and equipment storage.	-	-	-												
Dining & Lounge	190	1	-	-	Area for dining and lounge.	-	-	-												
Preparation/Buffer set-up/Beverage Area	95	1	-	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Staff/Volunteer, Athlete, Media)	-												
Toilets	40	1	40	80	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	4 female, 4 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided.			I	F					I	G	G	IOC
Protocol flags	-	-	-	-	-	-	See Look of the Games	-			J	J							R	IOC
Press Operations																				
Venue Media Centre (VMC)	550	1	550	750	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Confer	Close proximity to Press Tribune, Press Conference room, and Mixed Zone area.	Enclosed space for 110 press and 30 photographers.	Assumes tent.				F						R	IOC	
Reception & Information Desk	24	1	24	-	Welcome desk at the entrance, for information distribution.	-	-	-												
Storage	6	1	6	-	Equipment storage.	-	-	-												
Press Manager Office	12	1	12	-	Operational work space.	-	-	-												
Photo Manager Office	12	1	12	-	Operational work space.	-	-	-												
Olympic News Service (ONS) Work Room or Area	35	1	35	-	Operational work space.	-	Enclosed space.	-												
Info Stations	28	1	28	-	Computer stations and printers.	-	-	-												
Press Work Room or Area	240	1	240	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.												
Photo Work Room or Area	50	1	50	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.	-												
Photographers Check-in & Photo Bib Distribution	12	1	12	-	Area where photographers register and receive/return photo bibs.	-	-	-												
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.												
Lounge/Catering Prep	100	1	100	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-	-												
Toilets	1.5	8	12	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided												

CYCLING Track / BMX

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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation		
Press Conference Room	100	1	100	210	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I			F						R	IOC		
Seating Area	60	1	60	-	An area for accredited press.	-	Seats and standing room.	-													
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3.6 m table, 8 chairs & step and repeat backdrop.	-													
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-													
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-													
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-				F			I	I					
Mixed Zone	25 linear mtrs.	1	25 linear mtrs.	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I		I	F			I	I		R	IOC,IF		
Press Tribune	-	-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	-	Tabled seating is fitted out with telephones, television monitors, power and other press facilities (indoor venues). For outdoor venues, these services will exist in VMC.	-													
Press Tabletop Seating	Varies	Varies	Varies	-	-	Easy access from Venue Media Centre and direct access if possible to Mixed Zone.	<u>In an existing stadium or seating area:</u> 1 seat wide (folding chairs at 60 cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50 cm deep tabletop per position, each position = 2 stadium seats. <u>Temporary Stands:</u> 1 seat (folding chairs at 60 cm spacing) x 2 rows deep of proposed seating system (normally 150 cm-170 cm deep).	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.			I	F			I	I		R	IOC,IF		
Press Seating (non-tabled)	Varies	Varies	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.			I	F				I		R	IOC,IF		
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided													
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-													
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	Positions usually on bends and at start/finish lines.	Total number of photographers expected at peak sessions 6. 60cm wide x 90cm deep per position, multi-row areas require 60cm riser per row.	Power and data cabling needed to photo positions on FOP; possible WAN transmissions to tribune.	J		I	J						I	J	R	IOC, IF
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Positions usually on bends and at start/finish lines.	-	Power, Wireless and data cabling needed to photo positions on FOP.	I		I	F						I	I	G	IOC
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	Seating areas are generally not applicable for outdoor venues.													

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Security																				
Security Command Centre	120	1	120	145	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.										P		
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).			-												
Security Work Area	15	1	15	-	An area for additional security agencies.	-		-												
CCTV Surveillance & Video Desk	15	1	15	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-		-												
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.												
Radio Dispatch & Monitoring	15	1	15	-	An area for the monitoring and control of security communication and the distribution/return of radios.	-		-												
Work Room	50	1	50	-	Open plan of work stations designated for security personnel.	-		-												
Secure Storage	10	1	10	-	An area for Security equipment storage.	-		-												
Dog Cage(s)	4	Varies	Varies	8 (each)	Holding area for security dogs.	-	Area only for enclosed portable units (e.g. cages)	Dependent on Host City / Country / Risk Assessment												
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-				J	J						P	
Briefing and Break Area / Staging Area	140	1	140	170	Area for briefing staff before and after shifts.	-	Enclosed space.	Assumes tent.												
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.				J	J						P	
Vehicle Screening & Sanitisation Area	569	1	569	800	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.					I	F					P	
Vehicle Queue	175	1	175	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-												
Oversized Vehicle Queue	140		140	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-												
Vehicle Sanitisation & Wanding Areas	150		75	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.												
Oversized Vehicle (Truck & Bus) Sanitization	70		70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-												
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.												
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Staff staging and break enclosed space.	-												
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the Venue Secure Perimeter and/or venue screening area for constituents.	-	-					F	I						
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-		Located in BOH	Minimum gate width recommended = 6m.	-					J	J					P	
Athlete Area	6 linear mtrs.	Varies	Varies	-		Located in BOH	Minimum gate width recommended = 6m.	-	I			F							P	
Broadcast Compound	6 linear mtrs.	Varies	Varies	-		Located throughout venue.	Minimum gate width recommended = 6m.	-				F		I					P	
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-		Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.					F						P	

CYCLING Track / BMX

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the Venue Secure Perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	-				F					G	P	
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the Venue Secure Perimeter.	Net area for each screening position will accommodate: 4 Wanding Stations, OR - 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue.											
Athlete / Team	18	1-2	18-36	36-72	-	-	Screening and search area is covered.	-	I		F								P
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	-	-	Entrance can be combined with Athlete and/or Olympic Family.	I		F						I		P
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	-	-	Entrance can be combined with TO, ENG and/or Press.	I	I	F						I		P
Broadcast	18	1-2	18-36	45-90	-	-	Screening and search area is covered. Direct access from outside venue perimeter into Broadcast Compound.	Search area is covered. Direct access from outside venue perimeter into Broadcast Compound.				F			I				R IOC
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	-	-	-											
Press and Photographer	18	1-2	18-36	36-72	-	Located in close proximity if possible to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast) preferably leading directly into Press areas.	-				F							R IOC
Staff, Volunteer, Contractor & Vendor	18	2-3	36-54	90-135	-	-	-	-				F							G IOC
Spectator / Sponsors	18	Varies	Varies	54	-	-	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-				F							P
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.											
Exception Gate	-	-	-	-	Access gate for designated accredited personnel.	Located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.											
X-ray of bags	54	Varies	Varies	100 (each)	Device for screening bags/equipment coming into the venue.	-	-	-			I	F					G	P	
Venue Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	-			F	I							P
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	Located at each security screening area, 1m to 3m width, sometimes used as a secondary service vehicle exit point.	-											
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m in width, number varies per concourse design.	-											
Staff, Volunteer, Contractor & Vendor	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	-											
Sponsor Services																			
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.			I	F							P

CYCLING Track / BMX

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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Sport Operations																			
Competition Management	60	1	60	90	A work area for sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located close to Athlete Area and FOP; may be co-located within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space.	I			F						P	
Competition Manager & Asst. Mngr. Desks	12	1	12	-	An area for the manager and assistant(s) manager.	-	-	-											
Assigned Work Area	20	1	20	-	Open plan of work stations designated for sport personnel.	-	-	-											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Area	18	1	18	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-											
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-											
Sport Information	20	1	20	30	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located in Athlete Area.	Enclosed space with waiting area and seating.	Includes: information boards, pigeon holes, Info & Help desk, work area, info terminal stations & storage.	J			J						R	IF
Athlete Lounge	100	1	100	140	An area where athletes can relax at the venue while not training or competing.	Located in Athlete Area.	Enclosed space.	Includes: seating area, lounge, Info & Help Desk, info terminal stations.	J			J						R	IF
Athlete Dressing, Locker, Shower, Toilet	20	Varies	Varies	35 (each)	Change-room facilities to accommodate athletes at the venue during competition and training.	Located in Athlete Area.	Enclosed space. Separate male and female facilities.	Assumes container units or existing space.	J			J						R	IF
IF & Sport Meeting Room	30	1	30	45	Meeting facility at the venue for the International Federation and Competition Management.	Located in close proximity to the IF Area and Competition Management area.	Enclosed space.	Shared meeting room area between IF & Sport to serve various meeting needs.	J			J						G	IF
Team Cabins	10-20	Varies	Varies	15-30 (each)	Area where team mechanics maintain and repair bicycles.	Located within the secure perimeter and easy access to the FOP.	Three sizes of team cabins: Large =20m ² , Medium = 15m ² , Small = 10m ² . Covered area between team cabins.	Assumes container units. Quantity varies according to number of countries/teams for Track and BMX.	J			J						R	IF
Sport Equipment Storage	50	1	50	60	Storage for athlete/team sport equipment.	Located adjacent to FOP or within close proximity.	-	-	J			J	I					R	IF
FOP Maintenance Equipment Storage	15	1	15	25	-	Located adjacent to FOP or within close proximity.	-	-	I			F	I					R	IF
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	Reference should be made to UCI current specifications.	-											
Playing Surface Dimensions or Area	-	-	-	-	-	-	-	Total area required may be greater than playing surface dimension.	F			I						R	IF
Track	Varies	-	-	-	-	-	See 3.6.064 to 3.6.101 of UCI Track specifications manual. Covered or open area track area. Length of track distances can be either: 250m, 285.714m, 333.33m, or 4000m.	-											
BMX	Varies	-	-	-	-	-	See chapter 6, section 8 of UCI BMX specifications manual.	-											
Vertical Height Requirement	-	-	-	-	-	-	See UCI current specifications for Track.	-	F			I	I					R	IF
Surface	-	-	-	-	-	-	See UCI current specifications for Track and BMX.	-	J			J	I					R	IF
Orientation	-	-	-	-	Orientation of FOP area.	-	See UCI current specifications for Track and BMX.	-	J			J	I					R	IF
Sports Lighting - Technical	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

CYCLING Track / BMX

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Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	-	-	-											
Warm-up Surface Dimensions or Area	-	-	-	-	-	-	-	Total area required may be greater than playing surface dimension.	J		J				I	J		R	IF
Track	-	-	-	-		Inside of track.	Inside of track. Used throughout the competition for warm-up.	A criterion course (in close proximity to the track) may be set-up for athletes to warm-up / warm-down before and after races.											
BMX	-	-	-	-			An area of 30 x 30 metres adjacent to the BMX track and riders staging area.												
Surface	-	-	-	-	-	-	See UCI current specifications for Track and BMX.	-	J		J	I				J		R	IF
Orientation	-	-	-	-	Orientation of warm-up area.	-	See UCI current specifications for Track and BMX.	-	I		F	I						R	IF
Athlete Staging (BMX)	15 x 30	1	450	450	An area where riders will be staged prior to start of race.	Start area of course.	Area only. Metal barricades, umbrellas and one 3x3 tent inside area required.	Track cyclists will be staging on the inside area of the track.	I		F							R	IF
Athlete / Team Seating	-	-	-	-	A designated seating area for athletes.	-	-	-	J	I	J					J		R	IOC,IF
Same Sport	-	Varies	-	-	-	-	-	-	J	I	J					I		R	IOC,IF
Different Sport	-	Varies	-	-	-	-	-	-	I	I	F					I		R	IOC
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	May be required for Sport Staff use. Quantity varies according to athlete numbers.				F						P	
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	Required if FOP is not located near Athlete Area.	Assumes temporary units. Quantity varies according to athlete numbers.				F						P	
International Federation																			
IF Area	60	1	60	65	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located in close proximity to accredited seating areas.	Enclosed space.	Assumes container units or existing space.	I		I	F						R	IF
IF President's Office	15	1	15	-	-	-	-	-	I		I	F						R	IF
IF Secretary - General/Executive Director's Office	15	1	15	-	-	-	-	-	I		F							G	IF
Reception, Secretariat, Waiting & Work Area	30	1	30	-	-	-	-	-	I		F							G	IF
Lounge - International Technical Officials	40	1	40	45	A rest area for officials.	-	Enclosed space.	Assumes container units or existing space. Area may be used as jury area.	J		J							G	IF
Technical Delegates Office & Work Area	15	1	15	20	Office area for Technical Delegates.	-	Enclosed space. 2 Technical Delegates.	-	I		I	F				I		R	IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I	J	J					J		R	IOC,IF
Sport Presentation																			
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.											
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-				F						P	
Announcer Position	3	1	3	-	-	-	-	-				F						P	
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space. Staff Work, Green Room, Entertainer Staging and Dressing and Prop Storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.											

CYCLING Track / BMX

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Technology Operations																			
Technology Help Desk	15	1	15	-	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium Security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support staff & manager.	-				F						P	
Venue Technology Operations (VTO)	25	1	25	-	OCOG Technology Operations area. Operational work space for entire Venue Technology team, including Partners & contractors.	Adjacent to or within Venue Operations Centre (VOC).	Medium Security - lockable room. Air-conditioned as office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	-				F					G	P	
OCOG Venue Technology Work Area	-	1	-	-	Work space for Venue Technology Manager, Assistant Venue Technology Manager, Technology Staffing Manager and associated volunteer(s).	-	-	Work space size may be dependent upon workforce per shift.											
AV Contractor Work Area	-	1	-	-	Work space for AV contractors/Technicians.	-	-	Work space size may be dependent upon workforce per shift.											
IT Provider Work Area	-	1	-	-	Work space for IT staff and "home base" for IT volunteers.	-	-	Work space size may be dependent upon workforce per shift.											
Reprographic Provider Work Area	-	1	-	-	Work space for reprographic contractors/technicians	-	-	Work space size may be dependent upon workforce per shift.											
Mobile Phone Provider Work Area	-	1	-	-	Workspace for mobile phone provider.	-	-	Work space size may be dependent upon workforce per shift. Charging area for Venue Operations workforce phones may be required.											
Wired Communications Provider Work Area	-	1	-	-	Work space for Wired Communications contractors/technicians.	-	-	Work space size may be dependent upon workforce per shift.											
Timing & Scoring/OVR Provider Work Area	-	1	-	-	Work space for OVR/Timing and Scoring contractors/technicians.	-	-	May not be required if adequate working space is allocated in OVR room.											
Radio Distribution Room (RDR)	15	1	15	-	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E & workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).	I		F							P	
Information Technology																			
Computer Equipment Room (CER)	20	1	20	-	Area for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. Air-conditioned to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.	I		F						G	P	
Data Local Area Network (LAN) Management Room & Store	25	1	25	-	LAN monitoring room and associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational staff & storage.	If located adjacent to CER, power supply boards, UPS units & Air-conditioning services can be common for both spaces.				F					G	P	

CYCLING Track / BMX

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Space <small>(Sub-space(s))</small>	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Telecommunication & Audio Visual																			
Telecomm. Equipment Room (TER) Primary	36	1	36	-	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. Air-conditioned to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	Raised flooring is preferable for cabling distribution, but not essential.	I		F							P	
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.	I		F							P	
Telecomm. Operations & Store	20	1	20	-	Operational space for Telecommunications technical staff and associated storage for spare parts.	Adjacent to TER.	As TER with adequate FF&E to support operational staff & storage.	If located adjacent to TER, power supply boards, UPS units & air-conditioning services can be common for both spaces.	I		F							P	
Audio Control Positions	-	-	-	-	-	-	-	-				F					G	P	
Venue	4	1	4	-	Area within Sport Production, location for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Production. Can be on FOP, in stands or in a booth with view to FOP.	High Security. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	Storage for country anthems.											
Press Conference	4	1	4	-	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), air-conditioned, waterproof. Work space & FF&E for operator.	PA system may also be used for Competition Draw if draw is held in Press Conference room.											
Warm-Up Area	0	0	0	-	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Within Warm-up area for Athletes.	Standard/mains power & FF&E.	-											
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-											
Workforce Break/Briefing	2	Varies	Varies	-	Area within Staff Break/Training room where audio control equipment is installed to facilitate meetings/training of large numbers of staff.	Workforce break/dining areas.	Standard/mains power & FF&E.	-											
Video Board Control	4	1	4	-	Area of video control for video board or video projection system. Operations integral with those of Sport Production.	Ideally with Sport Production. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	-				F					G	P	
Wired Communications Control	2	1	2	-	Area of wired communications master control station and support technician. System essential to operations of both Sport Production and Results/FOP management.	Near to or within Sport Production is preferable. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location if located outdoors. Good cable access to FOP, OVR Room, Sport Production, Broadcast Graphics Room & Results Printing required. Workspace & FF&E for one technician, control equipment, spare parts and containers/boxes for equipment.	-				F					G	P	
Temporary PA equipment Room	2 min	1	2 min	-	Temporary location for installation of PA active equipment (amplifiers etc) for venue PA system.	In existing PA equipment room, if applicable. May be located under venue seating/tribunes if existing room not available.	High Security. Fully redundant power (mains & standby generator) to equipment. Good cable access to speaker location and PA/Audio Control position required. Equipment installed in racks. Each rack set is 1000H x 600W x 600 D maximum.	Number of racks will depend on size of system deployed. Generally venues with large geographic area (outdoor) require larger installation and therefore more racks of amplifier equipment.					F					P	

CYCLING Track / BMX

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space <small>Sub-space(s)</small>	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Timing, Scoring, & Results Operations																			
Results Data Entry Position	-	-	-	-	Area(s) for event results and/or statistics data entry during competition.	As noted below	High Security.Fully redundant power (mains & generator) with UPS to all results data entry equipment/workstations. Space & FF&E for all data entry personnel & results management staff.	Where data entry occurs outdoors, adequate weather (rain/sun) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
Field of Play	0	0	0	-	Area/position for results data entry & "spy camera" control operations.	Position located at Technical Table with sport results & sport/team officials.	-	May occur as a position on the FOP, or in a room with a view to the FOP.											
Timing and Scoring Position	-	-	-	-	Area(s) for event timing & scoring personnel & equipment during competition.	Sport Specific. However, all locations must have view to FOP	High Security Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards, ball speed guns & OVR room. Space & FF&E for operators and equipment.	Where timing and scoring take place outdoors, adequate weather (rain/sun/snow) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
Field of Play (FOP) Photo Finish Control	12	1	12	-	Area of photo finish video camera control equipment & operator.	Inside track area	Cable access to Timing & Scoring Control room & start camera.	-											
Control Room	35	1	35	-	Scoring control position for CT. All Timing & scoring equipment & backup-up C system.	Outside track area, location must have view to FOP	Cable access to photo finish control & OVR room.	-											
On Venue Results (OVR)	-	-	-	-	Area is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	Easy access to FOP critical for technical and results staff.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. Air-conditioned to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Space & FF&E required for high density of computer workstations, racks for servers and working space for technicians, operators and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or venues where two sports occur concurrently will require more space for additional OVR equipment.	I	F								P	
OVR Provider Work Area	18	1	18	-	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO/CIS/PRD etc).	Ideally adjacent to IT provider work area.	-	-											
IT Provider Work Area	18	1	18	-	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-											
Scoreboard Control	-	-	-	-	Area of scoreboard control operations. Operations integral with those of Sport Production, data provided from OVR System. Space for both Control and Interface workstations and 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. Air-conditioned to meet OVR provider specification. Cable access to scoreboards, & OVR room. Space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.	I	F							G	P	
Scoreboard Control	2	1	2	-	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator and workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-											
Scoreboard Interface	2	1	2	-	Area for interface equipment (PC workstations) linking OVR system and Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-											

CYCLING Track / BMX

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Results Printing (PRD)	80	1	80	-	Area for hard copy results production and distribution. Location of high intensity work involving many staff preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area and position for the Print Distribution Workstation (IDS interface) equipment and operator.	Near/adjacent to Press Workroom, access to Press Tribunes, Broadcast Commentary Positions, Sport Information Desk, Doping & Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. Air-conditioned to meet IT/OVR provider specification. Space & FF&E required for equipment and operational staff as well as space for 1 x pallet of paper to support print/copy operations.	-	I	I	I	F				I		R	IF, Swatch
TV Graphics Interface	3	1	3	-	Location where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operators & good cable access to OVR room.	-				I		F			G	P	
Technology Storage																			
Technology General Storage	15	1	15	-	Area for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F					G	P	
IT Bulk Storage	30	1	30	-	Storage area for all spare IT equipment & associated boxes/containers.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to IT provider at all times.				F					G	P	
Reprographic Primary Storage Area	12	1	12	-	Primary storage/technical area in-venue for reprographic provider. Storage for spare parts, additional devices and consumables serving primarily Results Printing Operations.	In venue location adjacent to, or within Results Printing Room.	High Security - lockable. Standard office environment with standard power. Workspace & FF&E for one technician.	-	I		F						G	P	
Reprographic Bulk Storage Area	20	1	20	-	Storage area for bulk paper allocated to venue (multiple pallets).	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of paper required to support venue operations.				F					G	P	
Timing and Scoring Workshop	10	1	10	-	In venue storage and workshop for timing equipment, spare parts and small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.	-	I		F						G	P	
Timing & Scoring Bulk Store	50	1	50	-	Storage area for large crates and containers used for scoreboards and bulk equipment. Must be accessible to OVR provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of Timing & Scoring equipment deployed to venue. May be combined with Timing & Scoring Workshop if location & size of space meet requirements for venue.	I		F						G	P	
Audio Visual Bulk Store	30	1	30	-	Storage area for large crates and containers used for video boards, PA equipment and TV boxes. Must be accessible to Video/Public address provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of audio/video equipment deployed to venue.				F					G	P	
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required to distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closet. CCFs are to be installed in locations that allow for easy access for service technicians and easy cable access from TER room and to user device locations.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Work Room.	High Security - lockable & weatherproof. May require fan or dedicated A/C depending upon room location and / or configuration. Fully redundant power (mains & generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.	I		F							P	

CYCLING Track / BMX

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of Power from Data/Voice and Audio Visual Cabling	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in a manner which allows for easy access and repair/replacement. Legacy installations are to be installed as permanent while temporary (overlay) should be installed using methods which are easily installed & removed minimising potential damage to existing venue.					F					P	
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.	-	-	"											
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.	-	-	"											
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.	-	-	"											
CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	"											
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	"											
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-											
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-											
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-											
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-											
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-											
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I		F								P
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.											
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to Video Control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I		F								P
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the videoboard. Required for outdoor venues where the videoboards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each videoboard.											

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Audio/PA System Infrastructure	-		-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Production on a sport specific basis.	Adequate power, cable pathways to/from boards to Video Control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.		I		F						G	P	
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to / from audio / PA amplification system and / or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cablings) required to suspend PA speakers from venue ceiling structure.	-	-	-												
Mobile Phone Infrastructure (antenna)	-	Varies	-	-	Infrastructure required to support installation of additional radio antenna and mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to / from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.		I		F						G	P	
Ticketing																				
Ticket Box Office	40	1	40	100	An area at the venue where Olympic tickets are sold.	Adjacent to the secure perimeter; near the spectator entry point of the venue	Gross area includes internal & external queue.	Assumes container unit with accessible access to internal and external service window. Dependent upon spectator capacity, venue layout and footprint and spectator access point locations.					F						P	
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-												
Internal Ticket Sales Window(s)	15	1	15	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-												
External Ticket Sales Window(s)	15	1	15	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-												
Transport																				
Transport Area	25	1	25	50	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.					F						P	
Driver Staging	80	1	80	150	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.					F						P	
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside Venue Secure Perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.												
Storage Yard	-	1	-	20	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-					F						P	
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from each Host City, based on vehicle / bus types and local transportation legislation.												
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J							I	P	
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J							I	P	
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F							P	
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.				F			I				G	IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.				F							G	IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.	I		F								G	IOC
Spectator and Staff Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				F							P	
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.		I		F							P	
Accessible	-	-	-	-	-	-	-	Part of Spectator total.				F							P	

CYCLING Track / BMX

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Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Surface areas paved or gravel.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have a drop-off in close proximity to accredited entry point and then driver will park.			I	F						P	
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.				F			I			P	
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.				F			I			P	
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-			J	J						P	
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes circulation.				F			I			P	
Emergency Services	-	-	-	50 (each)	-	Generally located inside the Secure Venue Perimeter.	-	Includes circulation.				F			I			P	
Venue Development																			
Site Management Compound	503	1	503	650	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Dependent upon venue footprint, extent of temporary works, and number of contractors.					F					P	
Site Management Area	60	1	60	-	-	-	Enclosed space.	-											
Site Manager & Assistant Site Manager(s) Work Area	12	1	12	-	Work and meeting area for the Site Manager and Assistant Site Manager.	-	-	-											
Site Administration Desk & Work Area	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-	-											
Response Team & Vendor Staging	24	1	24	-	On-site permanent and temporary facilities for specialty staff and general labor crew to be on-call.	-	-	-											
Secure Storage - Site Management	12	1	12	-	Area for storage.	-	-	-											
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.	-	Enclosed space. Area for office, staging and a secure storage area.	Assumes container units or existing space. Contractor usually installs container units at their own cost.											
Sign/Look Staging, Work Space/Secure Storage	50	1	50	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	-	Assumes container unit or existing space.											
Material Warehouse/Construction Work Space	80	1	80	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	-	Enclosed space.	Assumes tent or canopy with 2 side walls. Area for carpentry, painting and general construction. Storage for non-weather proof materials.											
Vendor Secure Storage	60	1	60	-	Area for containers, usually provided by the various temporary construction sub-contractors.	-	Enclosed space.	Assumes container units or existing space.											
Materials Staging Area	50	1	50	-	Area for the off-loading and loading of bulk construction materials.	-	Area only.	-											
Exterior Storage Area	50	1	50	-	Outdoor storage of material and products.	-	Area only.	Weatherproof area for large and bulk materials.											
Vehicle Staging	90	1	90	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	-	Area only.	Service, Repair & Specialty vehicles											
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.			I	F						P	
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.	-			I	F						P	

CYCLING Track / BMX

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.		I		F						P	
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.											
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-	-											
Venue Management																			
Venue Operations Centre (VOC)	60	1	60	90	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Venue capacity and venue layout.				F						P	
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-											
Assigned Desks	20	1	20	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Space and Storage	18	1	18	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	40	1	40	50	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.				F						P	
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	24	1	24	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	-											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	150	1	150	180	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre	Enclosed space.	Assumes existing space or tent. Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.				F						P	
Workforce																			
Workforce Area	150	1	150	180	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.				F						P	
Check-In Area	96	1	96	-	Area to log-in venue staff and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Area	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	335	1	335	400	The space where workforce meals are served and where workforce can break during their shift.	A location that will provide easy access to all workforce for breaks and meals; will vary according to venue layout/size.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon workforce numbers..				F						P	
END OF DOCUMENT																			

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation				
Accreditation																							
Venue Accreditation Office	50	1	50	125	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Day Pass Issue & Problem Resolution Desk	15	1	15	-																			
Work Area	15	1	15	-																			
Manager Desk or Office & Storage	12	1	12	-																			
Waiting Area	8	1	8	-																			
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	-	Enclosed space. May be required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.					F					P	-				
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.															
Broadcast																							
Broadcast Compound	-	1	-	5500	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements. Located in temporary structure. Assumes container/trailer unit or tent.															
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Broadcast Manager Office	12	1	12	-		-	-	-	-														
Work Room, Assigned & Unassigned Desks	48	1	48	-		-	-	-	-														
Technical Operations Center	40	1	40	100	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Broadcast Catering	140	1	140	180	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Kitchen & Prep	20	1	20	-		-	-	-	Assumes container unit.														
Buffet Line & Dining	120	1	120	-		-	-	-	Assumes container unit or tent.														
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements.															
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Assumes container units.															
Mobile Unit(s)	65	Varies	Varies	-	-	-	-	-															
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters.															
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Assumes container units.															
Mobile Unit(s)	65	Varies	Varies	-	-	-	-	-															
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.															
Toilets	1.5	8	12	36	Toilet units designated for broadcast personnel.	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.															
Secondary Broadcast Compound	-	-	-	900	Serves as a secondary unit to the main compound to house various broadcast technical needs that are required for Broadcast to cover the full competition FOP or area.	Located adjacent to FOP.	Required on venues where size of FOP or location of Primary Compound exceeds cabling capabilities.	Specific elements are venue/sport specific.															
Toilets	1.5	2	3		Toilet units designated for broadcast personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.															
Commentator Control Room	55	1	55	70	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in close proximity to commentator position area	Enclosed space with incoming television cable.	Assumes existing space or container.															
Broadcast Information Office (BIO)	20	1	20	25	Space for broadcast management and team meetings.	Located near commentator positions and CCR	Enclosed space.	Assumes existing space or container.															
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-															
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J												
Mixed Zone	20	1	20	120	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Adjacent to the FOP	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I	I	J												

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Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in seating areas with view to FOP and covered when possible.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Outdoor commentator positions should have the option of cover for protection from various weather conditions (e.g. sun, rain). Space for commentator positions may vary according to actual venue/permanent seating setup.			I	J						R	IOC	
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	Located at the rear of the commentator grouping so as not to disrupt the FOP view of other commentator positions.	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	A com-cam position equals 2 adjacent commentator positions.			I	J								
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions	1 position = uses 1 seat in existing seating bowls.				I	J						R	IOC	
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions. The primary source of camera positions are the use of helicopters.	FOP Camera positions are dependent upon production plans and IF approval. Space for camera positions may vary according to actual venue/permanent seating setup.	J		I	J						R	IOC	
Camera Position - Other	4	25	100	225	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions. The primary source of camera positions are the use of helicopters.	Space for camera positions may vary according to actual venue/permanent seating setup.	I		I	J						R	IOC	
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-					J	I				G	IOC	
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	-					J	I				G	IOC	
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in BOH areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.					J	I				G	IOC	
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography, in conjunction with OBS and IFs.	J			J	I					R	IOC	
Catering																				
Catering Compound	565	1	565	850	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity.					I	F				P		
Work Areas - Catering Management	28	1	28	-		Generally, located in Catering Compound or possible the VOC.	Enclosed space.	Assumes existing space or container.												
Organising Committee Catering Manager	-	-	-	-			See Venue Management - VOC.	-												
Catering Contractor	16	1	16	-			-	-												
Beverage Contractor	12	1	12	-	Operational work space(s).		-	-												
Dry, Cold & Ice Storage	38	6	228	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.												
Vehicle Staging	90	1	90	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-												
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-												
Kitchen & Preparation Area	80	1	80	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.												
Uncovered Storage	75	1	75	-	Outdoor storage of material and products.	-	Area only.	-												
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilets should be provided.												
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	-												
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container(s). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity, level of catering activity.			I	F						P		
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	-												
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	-												
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue catering facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-			I	F						P		

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Ceremonies																			
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-			I	F						P	
Ceremonies Staging	36	1	36	45	For the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule; to coordinate location of podium, procession, and recession route, and location of flagpoles.	Adjacent to or close to FOP.	Consists of coordinator work space with area for anthem storage, secure storage, preparation and dressing area; see below for additional details.	Assumes existing space or container.			I	F						P	
Manager Desk	6	1	6	-	Work space for Manager.	-	-	-											
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.											
Presenters, Medal/Flower staging, Secure medal and flag storage	22	1	22	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.											
Presenter Preparation & Dressing	4	2	8	-	A dressing and preparation area for Presenters.	In close proximity to FOP.	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-											
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	In close proximity to FOP.	Limited use, may be shared with other space. See Sport Presentation.	-											
Awards Podium Storage	12	1	12	15	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	Adjacent to FOP.			I	F						P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.	I	J	J					J	G	R	IOC
Cleaning and Waste																			
Cleaning & Waste Compound	252	1	252	350	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependent upon venue capacity.					F					P	
Vehicle Staging	72	1	72	-	Parking area for collection vehicles which generally remain inside the venue.	-	Area only.	-											
Sorting Area	72	1	72	-	Area for sorting waste.	-	Area only.	-											
Waste & Recycle Containers	15	4	60	-	Area in front of waste and recycle bins where material is separated for containment.	-	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).											
Compactor Unit	25	Varies	Varies	-	Area in front of waste and recycle bins where material is separated for containment.	-	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.											
Equipment Supply & Storage	15	2	30	-	Space for cleaning equipment and paper product.	-	Enclosed space.	Assumes container unit.											
Contractor Office	18	1	18	-	Space for management and workforce staging.	-	Enclosed space.	-											
Doping Control																			
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	-	J	J	J							R	IOC
Waiting Area/Reception	26	1	26	30	Area where athletes check-in and wait prior to testing.	-	-	-											
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).											
Blood Processing Room(s)	15	Varies	Varies	20 (each)	Area where athlete blood samples are provided and sealed	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).											
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer. Wash basin for hand sanitisation.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).											
Office / Storage	12	1	12	15	Work and storage space for Doping Manager.	-	Enclosed space. Secure storage.	-											
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-	I	J	J							R	IOC

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Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.					F					P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of staff pre and post shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large group.	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.					F					P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.					F					P	
Information Desk	-	-	-	-	-	-	-	-											
Lost & Found	-	-	-	-	-	-	-	-											
Assisted Listening Device Rental	-	-	-	-	-	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	Adjacent to Public Information.	-	-					F					P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes 12m away from covered search area.	Total number generally 50% of security screening positions.					F					P	
Stroller Storage	72	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	-	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.					F					P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.					F					P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators					F					P	
Spectator Shade & Shelter	1	Varies	Varies	-	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and event services areas.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.					F					P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-					F					P	
Spectator Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators.	-	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.					F					P	
Hand Wash Stations	1	Varies	Varies	6 (per 20 toilets)	A chemical unit used in the absence of potable water.	-	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.					F					P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Finance																				
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I			F					P		
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Generally located inside venue perimeter and outside venue perimeter.	Area only.	Quantity dependent upon venue capacity.		I			F					P		
Language Services																				
Work Area / Desk	20	1	20	25	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre.	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-			J	J						G	IOC	
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference needs.	-			J	J						G	IOC	
Logistics																				
Logistics Compound	-	1	Varies	650	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access. Secondary Compound Area - an additional compound area may be necessary for staging or storage of equipment that is in close proximity to FOP and/or the finish area.										P		
Logistics Centre	60	1	60	-	-	-	Enclosed space.	Assumes container units or tent.												
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-												
Team Staging/Work Area	33	1	33	-	Space for staging and a work area.	-	-	-												
Secure Storage & Equipment Sign-out	15	1	15	-	Area for storage.	-	Storage for tools.	-												
Warehouse Storage	90	1	90	-	Storage area for furniture, fixtures, and equipment (FF&E).	-	Enclosed space.	Assumes tent												
Storage Yard	75	1	75	-	Outside storage area within compound.	-	Area only.	-												
Vehicle Staging	100	1	100	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-												
Fuel Tank(s)	9	Varies	Varies	25 (each)	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.												
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.												
Material Transfer Area (MTA)	-	1	-	575	An area where packages or other items are delivered when they arrive outside the venue delivery schedule times.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.					F				G	P		
X-Ray Area	36	1	36	72	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.												

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Look of the Games																			
Work Area and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.					F					P	
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J					J		R	IOC
National Olympic Committee (NOC) Flags	-	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.			J	J				J		R	IOC
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and back of locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J				J	G	R,P	IOC, IF
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals.	-											
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH).	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	-		I	J	J				J	G	R	IOC, L
Backdrop - Press Conference Room	2.2 x 6	1	2.2 x 6	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F		I	I				
Medical Services																			
Athlete Medical	65	1	65	100	An area where Medical provides services to athletes competing at the venue.	Located within the accredited Athlete Area.	Enclosed air-conditioned space.	Assumes container or existing space. Located in or near Athlete Compound	J	J	J					J		S	IF
Reception and Waiting	12	1	12	-	Area where athletes check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Physiotherapy Area(s)	8	2	16	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J					J		S	IF
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.											
Spectator Medical	50	1	50	100	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed air-conditioned space. 1 per 20,000 spectators	Assumes container unit or existing space.		I	F	I	I					P	
Reception and Waiting	12	1	12	-	Area where spectators check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	12	1	12	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Triage Station	36	1	38	72	Additional space to treat minor medical needs of spectators.	-	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.		I	F	I	I					P	
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.				F	I	I				P	
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Paved, graveled or grass area with fence, barricade or rope enclosure.	-				F	I	I				P	

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Merchandise																				
Office, Cash Room and Work Area	12	1	12	15	An area to manage the retailing of all Olympic merchandise inside the venue.	-	Enclosed space with secure entry.	Assumes container unit or existing space.					F					P		
Storage	15	2	30	35		-	-	Assumes storage containers or existing space.					F						P	
Program Sales Stands/Booths	1	1	1	2		-	Area only.	Units provided by vendor. Quantity and location decided by vendor and OCOG.					F						P	
Merchandise Points of Sale (POS)	6	Varies	Varies	18 (each)		Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.	Gross area is per each P.O.S. and includes service area and queue.	I			F						P	
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-		I	J	J						G	R	IOC
Olympic Family Services																				
Olympic Family Lounge	240	Varies	240	500	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	Located in close viewing distance of arena/FOP.	Enclosed space.	Assumes tent. Additional tent area may be required for OF and accredited guests at the start and finish area of the Cross Country course.	I		I	F					I	G	G	IOC
Welcome Desk and Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-	-												
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.	-												
Staff/Volunteer Room and Storage	12	1	12	-	On-call waiting area for Protocol staff and equipment storage.	-	-	-												
Dining and Lounge	140	1	140	-	Area for dining and lounge.	-	-	-												
Preparation/Buffer set-up/Beverage Area	70	1	70	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Staff/Volunteer, Athlete, Media)	-												
Toilets	30	1	30	60	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	4 female, 4 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided.			I	F					I	G	G	IOC
Protocol flags	-	-	-	-	-	-	See Look of the Games	-			J	J							R	IOC
Press Operations																				
Venue Media Centre (VMC)	425	1	425	600	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Confer	Close proximity to Press Tribune, Press Conference room, and Mixed Zone area.	Enclosed space for 1110 press and 25 photographers.	Assumes tent. This space is based on a venue media centre workroom that serves all disciplines – dressage, jumping and three day cross country. It should be central to all three areas.					F					R	IOC	
Reception & Information Desk	18	1	18	-	Welcome desk at the entrance, for information distribution.	-	-	-												
Storage	4	1	4	-	Equipment storage.	-	-	-												
Press Manager Office	12	1	12	-	Operational work space.	-	-	-												
Photo Manager Office	12	1	12	-	Operational work space.	-	-	-												
Olympic News Service (ONS) Work Room or Area	25	1	25	-	Operational work space.	-	Enclosed space.	-												
Info Stations	20	1	20	-	Computer stations and printers.	-	-	-												
Press Work Room or Area	180	1	180	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.												
Photo Work Room or Area	35	1	35	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.	-												
Photographers Check-in & Photo Bib Distribution	9	1	9	-	Area where photographers register and receive/return photo bibs.	-	-	-												
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.												
Lounge/Catering Prep	80	1	80	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-	-												
Toilets	1.5	6	9	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided												

Space	Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Press Conference Room		100	1	100	280	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I			F						R	IOC
	Seating Area	60	1	60	-	An area for accredited press.	-	Seats and standing room.	-											
	Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3.6 m table, 8 chairs & step and repeat backdrop.	-											
	Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-											
	Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-											
	Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-				F			I	I			
Mixed Zone		25	1	25	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I		I	F						R	IOC,IF
Press Tribune		-	-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	-	Tabled seating is fitted out with telephones, television monitors, power and other press facilities (indoor venues). For outdoor venues, these services will exist in VMC.	-											
	Press Tabletop Seating	Varies	Varies	Varies	-	-	Easy access from Venue Media Centre and direct access if possible to Mixed Zone.	<u>In an existing stadium or seating area:</u> 1 seat wide (folding chairs at 60 cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50 cm deep tabletop per position, each position = 2 stadium seats. <u>Temporary Stands:</u> 1 seat (folding chairs at 60 cm spacing) x 2 rows deep of proposed seating system (normally 150 cm-170 cm deep).	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.				I	F				R	IOC,IF	
	Press Seating (non-tabled)	Varies	Varies	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.			I	F						R	IOC,IF
	Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided											
Photographers Positions		-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-											
	Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	In close proximity to FOP.	Approx. 60 photographers expected at peak finals periods. 60cm wide x 90cm deep per position, multi-row areas require 60cm riser per row.	Power, Wireless and data cabling needed to photo positions on FOP.	J		I	J						R	IOC, IF
	Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Normal seating areas.	-	Seating areas are generally not applicable for outdoor venues.	I		I	F						G	IOC
Lighting		-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

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Security																			
Security Command Center	120	1	120	145	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.					I	F				P	
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-											
Security Work Area	15	1	15	-	An area for additional security agencies.	-	-	-											
CCTV Surveillance & Video Desk	15	1	15	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-											
CCTV Cameras		-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.											
Radio Dispatch & Monitoring		1	15	-	An area for the monitoring and control of security communication and the distribution/return of radios.	-	-	-											
Work Room		1	50	-	Open plan of work stations designated for security personnel.	-	-	-											
Secure Storage		1	10	-	An area for Security equipment storage.	-	-	-											
Dog Cage(s)		Varies	Varies	8 (each)	Holding area for security dogs.	-	Area only for enclosed portable units (e.g. cages)	Dependent on Host City / Country / Risk Assessment						F					
Major Incident Room		-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-			J	J						P	
Briefing and Break Area / Staging Area	140	1	140	170	Area for briefing staff before and after shifts.	-	Enclosed space.	Assumes tent.											
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.			J	J						P	
Vehicle Screening & Sanitisation Area	569	1	569	800	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.					I	F				P	
Vehicle Queue	175	1	175	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-											
Oversized Vehicle Queue	140		140	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-											
Vehicle Sanitisation & Wanding Areas	150		75	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.											
Oversized Vehicle (Truck & Bus) Sanitization	70		70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-											
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.											
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Enclosed space.	-											
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the Venue Secure Perimeter and/or venue screening area for constituents.	-	-					F	I					
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-			J	J						P	
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-	I		F							P	
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-			F		I					P	
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.					F					P	

Space	Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
	Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the Venue Secure Perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	-										G	P	
	Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the Venue Secure Perimeter.	Net area for each screening position will accommodate: 4 Wanding Stations, OR - 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue.												
	Athlete / Team	18	1-2	18-36	36-72	-	-	Screening and search area is covered.	-	I		F								P	
	Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	-	-	Entrance can be combined with Athlete and/or Olympic Family.	I		F								P	
	Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	-	-	Entrance can be combined with TO, ENG and/or Press.	I	I	F								P	
	Broadcast	18	1-2	18-36	45-90	-	-	Screening and search area is covered. Direct access from outside venue perimeter into Broadcast Compound.	Search area is covered. Direct access from outside venue perimeter into Broadcast Compound.				F		I					R	IOC
	ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	-	-	-												
	Press and Photographer	18	1-2	18-36	36-72	-	Located in close proximity if possible to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays. Entry should be exclusive to Media (Press and Broadcast) preferably leading directly into Press areas.	-				F							R	IOC
	Staff, Volunteer, Contractor & Vendor	18	2-3	36-54	90-135	-	-	-	-				F							G	IOC
	Spectator / Sponsors	18	Varies	Varies	54	-	-	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-				F								P
	Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.												
	Exception Gate	-	-	-	-	Access gate for designated accredited personnel.	Located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.												
	X-ray of bags	54	Varies	Varies	100 (each)	Device for screening bags/equipment coming into the venue.	-	-	-			I	F							G	P
	Venue Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	-				F	I							P
	Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	Located at each security screening area, 1m to 3m width, sometimes used as a secondary service vehicle exit point.	-												
	Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m in width, number varies per concourse design.	-												
	Staff, Volunteer, Contractor & Vendor	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	-												
	Sponsor Services																				
	Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.			I	F								P

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Sport Operations																			
Competition Management	60	1	60	90	A work area for Sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located close to Athlete Area and FOP; may be co-located within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space.	I				F					P	
Competition Manager & Assistant Manager Desks	12	1	12	-	An area for the Manager and Assistant(s) Manager.	-	-	-											
Assigned Work Area	20	1	20	-	Open plan of work stations designated for Sport personnel.	-	-	-											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Area	18	1	18	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-											
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-											
Sport Information	20	1	20	30	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located adjacent to or within venue stable areas.	Enclosed space with waiting area and seating.	Assumes tent or temporary structure. Includes: information boards, pigeon holes, Info & Help desk, work area, info terminal stations & storage.	J			J						R	IF
Athlete Lounge	250	1	250	350	An area where athletes can relax at the venue while not training or competing.	Located in close proximity to athlete/stable area.	-	Includes: seating area, lounge, Info & Help Desk, info terminal stations. <u>Team Dining area</u> - this space/area requirement will be decided on a case by case basis after consultation between the IF, IOC, and OCOG.	J			J						R	IF
IF & Sport Meeting Room	30	1	30	45	Meeting facility at the venue for the International Federation and Competition Management.	Located in close proximity to the IF Area and Competition Management area.	Enclosed space.	Shared meeting room area between IF & Sport to serve various meeting needs.	J			J						G	IF
FOP Equipment Storage	-	-	-	-	Storage of equipment required for competition.	Located adjacent to FOP or within close proximity.	For specific area requirements, see FEI Requirements/Minimum Standards for Olympic Games.	-	I			F	I					R	IF
Nursery	-	-	-	-	Greenhouse nursery for storage of flowers that are required along the arena FOP and also in various sections of the Cross Country course.	Located in close proximity and easy access to arena and Cross Country.	Enclosed space for flowers to be maintain and stored (i.e. greenhouse). For specific area requirements, see FEI Requirements/Minimum Standards for Olympic Games.	May require a secondary location if the Cross Country course is a long distance from the arena.											
FOP Maintenance Equipment Area	-	-	-	-	Area for storage/staging for tractors, trucks, and machinery/equipment that is required to maintain the Arena areas, Warm-up areas, and Cross Country areas.	Located adjacent to arena and also in close proximity to the Cross Country course.	For specific area requirements, see FEI Requirements/Minimum Standards for Olympic Games.	May require a secondary location for the Cross Country course.	I			F	I					R	IF
FOP	-	-	-	-	Area where competition is conducted.	-	Reference should be made to FIE guidelines for all FOP technical requirements.	-											
Playing Surface Dimensions or Area	-	-	-	-	-	-	-	-	F			I						R	IF
Arena (Jumping & Dressage, Eventing Dressage/Jumping)	100 x 80	1	8000	-	Competition Arena for Jumping, Dressage, and Eventing Dressage/Jumping.	FOP.	For more specific details, see FEI Requirements/Minimum Standards for Olympic Games .	-											
Cross Country	35h	1	35h	-	Competition area for the Cross Country course.	Where feasible, easily accessible from the stable areas and arena.	Large area of 35 hectares minimum. Course distance of 5700m - 6270m. For more specific details, see FEI Requirements/Minimum Standards for Olympic Games.	Course start and finish located in same area; area requirement sufficiently large to carry out warm-up for the cross country, arrival and departure and veterinary examinations. Access roads around course for vehicles.											
Surface	-	-	-	-	Surface requirement of the competition area or field of play.	-	-	-	J			J	I					R	IF
Arena (Jumping & Dressage, Eventing Dressage/Jumping)	-	-	-	-	Arena surface requirements for Jumping, Dressage, Eventing Dressage/Jumping.	-	Dressage: sand essential. Jumping: sand or grass. Eventing Dressage/Jumping: sand or grass.	If Jumping, Eventing Dressage/Jumping are performed on a grass area; this would change the competition arena requirements to 2, as Dressage requires sand.											
Cross Country	-	-	-	-	-	-	For more specific details, see FEI Requirements/Minimum Standards for Olympic Games.	-											
Orientation	-	-	-	-	-	-	Grass and sand.	-	J			J	I					R	IF

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	Team Tent(s) - Cross Country Course	Varies	Varies	Varies	-	Area for athletes/teams/stewards to gather for pre-competition preparations.	Located at start & finish area of the cross country course.	Covered area only; can be one large tent canopy with outlined/reserved spaces for each country competing or an individual tent canopy of approximately 3 x 3 metre for each country competing. For cross country event.	Quantity/size will vary according to team numbers.											
	Ten Minute Box - Cross Country Course	10 x 6	1	60	-	Area where athletes can view cross country competition before or after they compete.	Located at start & finish area of the cross country course.	10 x 6 metres area.	-											
	Vet Check - Cross Country Course	3 x 3	1	9	-	An area for veterinarians to break or perform administrative duties while not performing examinations to horses competing in the Cross Country.	Located at start & finish area of the cross country course.	Covered space; 3 x 3 metre, tent canopy.	Provision for emergency veterinary posts, shade, and ice in the halts of the Cross Country course.											
	Sports Lighting - Technical	-	-	-	-	Lighting level required for the sport competition.	Arena area.	See Broadcast lighting requirements.	Overall requirement of lighting will vary according to competition schedule (if competition takes place at night).	F		I							R	IOC, IF
	Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	In close proximity to arena and cross country course.	For more specific detail refer to FEI Venue Requirements for the Olympic Games. Training sites are used for warm-up prior to competition when in close proximity to competition arena.	-											
	Playing Surface Dimensions or Area	-	-	-	-	-	-	-	-	J		J							R	IF
	Arena (Jumping & Dressage, Eventing Dressage/Jumping)	-	-	-	-	-	-	A warm-up area is required immediately adjacent to entering the arena/FOP area. This area is where the next/waiting competitor will warm-up/marshall prior to entering the FOP. Area for warming up and enter/exiting of arena/FOP.	-											
	Cross Country	-	-	-	-	-	-	-	-											
	Surface	-	-	-	-	-	-	-	-	J		J	I						R	IF
	Arena (Jumping & Dressage, Eventing Dressage/Jumping)	-	-	-	-	-	-	-	-											
	Cross Country	-	-	-	-	-	-	-	-											
	Orientation	-	-	-	-	-	-	-	-	I		F	I						R	IF
	Stables	-	-	-	-	Suitable covered facilities with adequate lighting and ventilation/airflow for horse grooming, accommodating and other horse related facility requirements.	Located in close proximity to arena and cross country area.	For more specific detail refer to FEI Venue Requirements for the Olympic Games.	For all Equestrian Disciplines.	J		J	I						R	IF
	Horse Box	-	-	-	-	Area used to accommodate country horses.	-	Generally, there is 260-300 boxes required for team horses and extra boxes for storage.	Each stable area or block requires power, water, and good airflow over the stable boxes.											
	Box	9	Varies	Varies	Varies	-	-	9m ² is required for a majority of the boxes.	-											
	Box - Larger Horses	12	Varies	Varies	Varies	-	-	12m ² is required for 20% of the boxes to accommodate the largest horses.	-											
	Team Officials Meeting Room	30	1	30	-	-	-	-	-											
	Administration Offices	30	1	30	40	Office area for chief steward and steward assistants.	-	Enclosed space.	-											
	Food and Bedding Storage	-	Varies	-	-	-	-	-	Number required may vary according to location/number of stable blocks											
	Workshop	-	1	-	-	Area for repair of saddlery and equipment.	-	-	-											
	Saddlery Repair Shop	-	1	-	-	Area or workshop for a farrier and assistants.	-	-	-											

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	Veterinary Spaces	-	-	-	-	-	-	Refer to FEI Venue Requirements for the Olympic Games.	Serves all equestrian disciplines. Require access to a Veterinary Equine Clinic with full surgical facilities, x-rays within a maximum of 1.5 hours distance from the venue.	J									R	IF	
	Veterinary Boxes	9	4	36	60	Stable boxes that are used for injured horses and/or horses that require veterinary attention.	Located in close proximity to stable areas.	A minimum of 4 boxes.	This can be a temporary structure (i.e. tent) and extreme climatic conditions, air conditioning or heat may be required. Easy access by horse trailers (hard surface), a supply of power, water, and sewer.												
	Isolation Boxes	9	4	36	60	Stable boxes for temporary isolation of horses suffering from a contagious infection.	Located some distance from stable area.	A minimum of 4 boxes.	-												
	Medication Control Boxes	9	4	36	60	Stable boxes for medication control of horses.	Located in close proximity to stable areas.	A minimum of 4 boxes.	-												
	Medical Equipment Storage	10	1	10	15	Storage area for medical and bandage materials.	Located adjacent to veterinary boxes.	Enclosed, securable space.	-												
	Office	15	1	15	20	Administrative space for veterinary officials and commission.	Located adjacent to veterinary boxes.	Enclosed space.	-												
	Parking for Horse Ambulance(s)	-	2	-	-	Area for parking large vehicles and trailers.	Located adjacent to veterinary boxes.	Parking area(s) for 3 horse trailers, of which 2 are real ambulance trailers and towing vehicle.	Easy access should be considered throughout venue for horse trailers and four wheel drive size vehicles.												
	Horse Doping Control	-	-	-	-	-	-	Refer to FEI Venue Requirements for the Olympic Games.	-												
	Sample Box	9	1	9	15	-	-	-	-												
	Control Committee	-	-	-	-	-	-	-	-												
	Grooms Village	Varies	200	Varies	Varies	Area and/or facilities for groom's accommodation.	Located in close proximity to stable area , preferably not further than 500m.	Approximate number of grooms = 200.	Recommend temporary facilities (i.e. portable cabins, tent for catering) with adequate washing/shower and catering services. Size will vary according to type/layout of temporary accommodation facilities.	J									R	IF	
	Athlete / Team Seating	-	-	-	-	A designated seating area for athletes.	-	-	-	J		I	J								
	Same Sport	-	Varies	-	-	-	-	-	-	J		I	J						R	IOC,IF	
	Different Sport	-	Varies	-	-	-	-	-	-	I		I	F						R	IOC	
	Toilets - Athlete / Stable Area(s)	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	May be required for Sport Staff use. Quantity varies according to athlete numbers.											P	
	Toilets - Near FOP(s)	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	Required if FOP is not located near Athlete Area (i.e. Arena and Cross Country).	Assumes temporary units. Quantity varies according to athlete numbers.											P	
	International Federation																				
	IF Area	60	1	60	65	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located in close proximity to main grand stand and/or arena.	Enclosed space.	Assumes container units or existing space.	I		I	F							R	IF
	IF President's Office	15	1	15	-	-	-	-	-	I		I	F							R	IF
	IF Secretary - General/Executive Director's Office	15	1	15	-	-	-	-	-	I		I	F							G	IF
	Reception, Secretariat, Waiting & Work Area	30	1	30	-	-	-	-	-	I		I	F							G	IF
	Lounge - International Technical Officials	30	1	30	40	-	-	Enclosed space.	Assumes container units or existing space.	J		J								G	IF
	Officials Locker Room, Shower, Toilet	25	1	25	40	-	Located in proximity to stables and arena.	Enclosed space. May be an office style / work room area for all officials. Not required for Dressage.	-	I		F								R	IF
	Technical Delegates Office & Work Area	16	1	16	20	Office area for Technical Delegates.	-	Enclosed space. 2 Technical Delegates.	-	I		I	F							R	IF
	Jury & Appeals Room	20	1	20	25	Meeting area for jury and appeals.	-	Enclosed space.	-	I		F								R	IF
	IF Hearing Room	20	1	20	25	-	-	Will take place in IF & Sport Meeting Room. Requires enclosed and sound proof space.	-	I		F								G	IF
	IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	View to arena area and entrance paddock.	I		J	J							R	IOC,IF
	Sport Presentation																				
	Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.												
	Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-											P	
	Announcer Position	3	1	3	-	-	-	-	-												P
	Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space. Staff Work, Green Room, Entertainer Staging and Dressing and Prop Storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.												

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Technology Operations																			
Technology Help Desk	20	1	20	-	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium Security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support staff & manager.						F					P	
Venue Technology Operations (VTO)	40	1	40	-	OCOG Technology Operations area. Operational work space for entire Venue Technology team, including Partners & contractors.	Adjacent to or within Venue Operations Centre (VOC).	Medium Security - lockable room. Air-conditioned office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.						F				G	P	
OCOG Venue Technology Work Area	-	1	-	-	Work space for Venue Technology Manager, Assistant Venue Technology Manager, Technology Staffing Manager and associated volunteer(s).	-	-	Work space size may be dependent upon workforce per shift.											
AV Contractor Work Area	-	1	-	-	Work space for AV contractors/Technicians.	-	-	Work space size may be dependent upon workforce per shift.											
IT Provider Work Area	-	1	-	-	Work space for IT staff and "home base" for IT volunteers.	-	-	Work space size may be dependent upon workforce per shift.											
Reprographic Provider Work Area	-	1	-	-	Work space for reprographic contractors/technicians	-	-	Work space size may be dependent upon workforce per shift.											
Mobile Phone Provider Work Area	-	1	-	-	Workspace for mobile phone provider.	-	-	Work space size may be dependent upon workforce per shift. Charging area for Venue Operations workforce phones may be required.											
Wired Communications Provider Work Area	-	1	-	-	Work space for Wired Communications contractors/technicians.	-	-	Work space size may be dependent upon workforce per shift.											
Timing & Scoring/OVR Provider Work Area	-	1	-	-	Work space for OVR/Timing and Scoring contractors/technicians.	-	-	May not be required if adequate working space is allocated in OVR room.											
Radio Distribution Room (RDR)	15	1	15	-	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E & workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).	I				F					P	
Information Technology																			
Computer Equipment Room (CER)	20	1	20	-	Area for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	One CER can service all disciplines of EQ. Central Location at Equestrian Venue to be agreed during venue planning.	I				F				G	P	
Data Local Area Network (LAN) Management Room & Store	25	1	25	-	LAN monitoring room and associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational staff & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces.					F				G	P	

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Telecommunication & Audio Visual																			
Telecomm. Equipment Room (TER) Primary	72	1	72	-	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	One TER can service all disciplines of EQ. Central Location at Equestrian Venue to be agreed during venue planning.	I				F					P	
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.	I				F					P	
Telecomm. Operations & Store	30	1	30	-	Operational space for Telecommunications technical staff and associated storage for spare parts.	Adjacent to TER.	As TER with adequate FF&E to support operational staff & storage.	One Telecom Ops can service all disciplines of EQ. Central Location at Equestrian Venue to be agreed during venue planning.	I				F					P	
Audio Control Positions	-	-	-	-	-	-	-	-					F				G	P	
Venue	4	1	4	-	Area within Sport Production, location for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Production. Can be on FOP, in stands or in a booth with view to FOP.	High Security. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	Storage for country anthems.											
Press Conference	4	1	4	-	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), air-conditioned, waterproof. Work space & FF&E for operator.	Typically one Press Conference room will be used for all disciplines of EQ, centrally located at venue/EQ site.											
Athlete Briefing	2	1	2	-	PA systems required for to facilitate announcements to athletes. Space required for amplifier/microphone.	Within briefing room/area for Athletes.	Standard/mains power & FF&E.	-											
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-											
Workforce Break/Briefing	2	Varies	Varies	-	Area within Staff Break/Training room where audio control equipment is installed to facilitate meetings/training of large numbers of staff.	Workforce break/dining areas.	Standard/mains power & FF&E.	-											
Video Board Control	0	0	0	-	Area of video control for video board or video projection system. Operations integral with those of Sport Production.	Ideally with Sport Production. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	-					F				G	P	
Wired Communications Control	4	1	4	-	Area of wired communications master control station and support technician. System essential to operations of both Sport Production and Results/FOP management.	Near to or within Sport Production is preferable. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location if located outdoors. Good cable access to FOP, OVR Room, Sport Production, Broadcast Graphics Room & Results Printing required. Workspace & FF&E for one technician, control equipment, spare parts and containers/boxes for equipment.	-					F				G	P	
Temporary PA equipment Room	2 min	1	2 min	-	Temporary location for installation of PA active equipment (amplifiers etc) for venue PA system.	In existing PA equipment room, if applicable. May be located under venue seating/tribunes if existing room not available.	High Security. Fully redundant power (mains & standby generator) to equipment. Good cable access to speaker location and PA/Audio Control position required. Equipment installed in racks. Each rack set is 1000H x 600W x 600 D maximum.	Number of racks will depend on size of system deployed. Generally venues with large geographic area (outdoor) require larger installation and therefore more racks of amplifier equipment.					F					P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Timing, Scoring, & Results Operations																			
Results Data Entry Position	-	-	-	-	Area(s) for event results and/or statistics data entry during competition.	As noted below	High Security. Fully redundant power (mains & generator) with UPS to all results data entry equipment/workstations. Space & FF&E for all data entry personnel & results management staff.	Where data entry occurs outdoors, adequate weather (rain/sun) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
Field of Play	1.5/pp	1	1.5/pp	-	Areas/positions for results and/or statistics on the FOP.	Ideally located with Timing & Scoring Team, Sport Results Team and Officials.	-	May occur as a position on the FOP, or in a room with a view to the FOP.											
Back of House	1.5/pp	0	1.5/pp	-	Area back of house where data entry is performed into the OVR/Results System.	Sport Specific, but can be in warm-up or call areas.	-	Generally occurs Back of House, in sport location.											
Timing and Scoring Position	-	-	-	-	Area(s) for event timing & scoring personnel & equipment during competition.	Sport Specific. However, all locations must have view to FOP	High Security Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards, ball speed guns & OVR room. Space & FF&E for operators and equipment.	Where timing and scoring take place outdoors, adequate weather (rain/sun/snow) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
Eventing	-	-	-	-	-	-	-	-											
Phase A Hut	4	1	4	-	Starters Position for Timing.	Start of Phase A	-	Typical requirement for EC; confirmation required when planning event if Phase A,B,C to be deployed.											
Phase B Hut	4	1	4	-	Starters Position for Timing & Finish B.	Start of Phase B	-												
Phase C Hut	4	1	4	-	Starters Position for Timing.	Start of Phase C	-												
Phase D Hut	4	1	4	-	Finish line with photo cell timing device.	Start of Phase D	-												
Phase D Finish	2	1	2	-	Area for central Timing & Scoring control operations, including Backup C system.	Finish Line Phase D	-	-											
Jumping and Dressage Arena	-	-	-	-	-	-	-	-											
Control Room	36	1	36	-	Area for central Timing & Scoring control operations, including Backup C system.	Co-located with OVR Room	-	-											
Field of Play - Judges Huts 1-5	25	5	125	-	Area within each Hut for scoring equipment & personnel.	Space within sport Judges Huts	-	-											
On Venue Results (OVR)	-	-	-	-	Area is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	Easy access to FOP critical for technical and results staff.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Space & FF&E required for high density of computer workstations, racks for servers and working space for technicians, operators and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or venues where two sports occur concurrently will require more space for additional OVR equipment.	I	F								P	
OVR Provider Work Area	30	1	30	-	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO/CIS/PRD etc).	Ideally adjacent to IT provider work area.	Cable access to ES (Jumping) OVR Room.	-											
IT Provider Work Area	20	1	20	-	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-											
Scoreboard Control	4	1	4	-	Area of scoreboard control operations. Operations integral with those of Sport Production, data provided from OVR System. Space for both Control and Interface workstations and 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.	I	F							G	P	
Scoreboard Control	2	1	2	-	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator and workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-											
Scoreboard Interface	2	1	2	-	Area for interface equipment (PC workstations) linking OVR system and Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-											

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Results Printing (PRD)	120	1	120	-	Area for hard copy results production and distribution. Location of high intensity work involving many staff preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area and position for the Print Distribution Workstation (IDS interface) equipment and operator.	Near/adjacent to Press Workroom, access to Press Tribunes, Broadcast Commentary Positions, Sport Information Desk, Doping & Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specification. Space & FF&E required for equipment and operational staff as well as space for 1 x pallet of paper to support print/copy operations.	Typically one PRD will be used for all disciplines of EQ, centrally located at venue/EQ site near Press Workroom.	I	I	I	F				I		R	IF, Swatch
TV Graphics Interface	3	1	3	-	Area where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operators & good cable access to OVR room.	-				I		F			G	P	
Technology Storage																			
Technology General Storage	15	1	15	-	Area for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F						G	P
IT Bulk Storage	30	1	30	-	Storage area for all spare IT equipment & associated boxes/containers.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to IT provider at all times.				F						G	P
Reprographic Primary Storage Area	12	1	12	-	Primary storage/technical area in-venue for reprographic provider. Storage for spare parts, additional devices and consumables serving primarily Results Printing Operations.	In venue location adjacent to, or within Results Printing Room.	High Security - lockable. Standard office environment with standard power. Workspace & FF&E for one technician.	-	I		F							G	P
Reprographic Bulk Storage Area	30	1	30	-	Storage area for bulk paper allocated to venue (multiple pallets).	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of paper required to support venue operations.				F						G	P
Timing and Scoring Workshop	10	1	10	-	In venue storage and workshop for timing equipment, spare parts and small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.	-	I		F							G	P
Timing & Scoring Bulk Store	40	1	40	-	Storage area for large crates and containers used for scoreboards and bulk equipment. Must be accessible to OVR provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of Timing & Scoring equipment deployed to venue. May be combined with Timing & Scoring Workshop if location & size of space meet requirements for venue.	I		F							G	P
Audio Visual Bulk Store	15	1	15	-	Storage area for large crates and containers used for video boards, PA equipment and TV boxes. Must be accessible to Video/Public address provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of audio/video equipment deployed to venue.				F						G	P
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Work Room.	High Security - lockable & weatherproof. May require fan or dedicated A/C depending upon room location and / or configuration. Fully redundant power (mains & generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.	I		F							P	

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Cable Pathways		-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term "cable pathway" is also used to describe access pathways (holes) in walls/floors required to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of Power from Data/Voice and Audio Visual Cabling	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in a manner which allows for easy access and repair/replacement. Legacy installations are to be installed as permanent while temporary (overlay) should be installed using methods which are easily installed & removed minimising potential damage to existing venue.										P		
	Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.	-	-	"												
	Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.	-	-	"												
	Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.	-	-	"												
	CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	"												
	Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	"												
	PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-												
	Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-												
	Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-												
	Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-												
	Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-												
Scoreboard Infrastructure		-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I				F						P	
	Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.												
	Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.												
Video Board/Projection Infrastructure		-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to Video Control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I				F						P	
	Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the videoboard. Required for outdoor venues where the videoboard cannot be suspended from ceiling structure.												
	Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each videoboard.												

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Audio/PA System Infrastructure		-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Production on a sport specific basis.	Adequate power, cable pathways to/from boards to Video Control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.		I		F					G	P	
	Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to / from audio / PA amplification system and / or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.											
	Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cablings) required to suspend PA speakers from venue ceiling structure.	-	-	-											
Mobile Phone Infrastructure (antenna)		-	Varies	-	-	Infrastructure required to support installation of additional radio antenna and mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to / from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.		I		F					G	P	
Ticketing																				
Ticket Box Office		40	1	40	100	An area at the venue where Olympic tickets are sold.	Adjacent to the secure perimeter; near the spectator entry point of the venue	Gross area includes internal & external queue.	Assumes container unit with accessible access to internal and external service window. Dependent upon spectator capacity, venue layout and footprint and spectator access point locations.					F					P	
	Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
	Internal Ticket Sales Window(s)	15	1	15	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-											
	External Ticket Sales Window(s)	15	1	15	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-											
Transport																				
Transport Area		25	1	25	50	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.					F					P	
Driver Staging		80	1	80	150	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.					F					P	
	Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside Venue Secure Perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard		-	1	-	20	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-					F					P	
Loading areas		-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from each Host City, based on vehicle / bus types and local transportation legislation.											
	Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J						I	P	
	Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J						I	P	
	IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.		I	F							P	
	ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.			F			I				G	IOC
	Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.				F						G	IOC
	Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.	I		F							G	IOC
	Spectator and Staff Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				F						P	
	Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.		I		F						P	
	Accessible	-	-	-	-	-	-	-	Part of Spectator total.				F						P	

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Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Surface areas paved or gravel.	Venue layout will determine amount of parking available at the venue.												
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have a drop-off in close proximity to accredited entry point and then driver will park.			I	F							P	
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.				F		I					P	
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.				F		I					P	
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-			J	J							P	
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes circulation.				F		I					P	
Emergency Services	-	-	-	50 (each)	-	Generally located inside the Secure Venue Perimeter.	-	Includes circulation.				F		I					P	
Venue Development																				
Site Management Compound	503	1	503	650	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Dependent upon venue footprint, extent of temporary works, and number of contractors.				F							P	
Site Management Area	60	1	60	-	-	-	Enclosed space.	-												
Site Manager & Assistant Site Manager(s) Work Area	12	1	12	-	Work and meeting area for the Site Manager and Assistant Site Manager.	-	-	-												
Site Administration Desk & Work Area	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-	-												
Response Team & Vendor Staging	24	1	24	-	On-site permanent and temporary facilities for specialty staff and general labor crew to be on-call.	-	-	-												
Secure Storage - Site Management	12	1	12	-	Area for storage.	-	-	-												
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.	-	Enclosed space. Area for office, staging and a secure storage area.	Assumes container units or existing space. Contractor usually installs container units at their own cost.												
Sign/Look Staging, Work Space/Secure Storage	50	1	50	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	-	Assumes container unit or existing space.												
Material Warehouse/Construction Work Space	80	1	80	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	-	Enclosed space.	Assumes tent or canopy with 2 side walls. Area for carpentry, painting and general construction. Storage for non-weather proof materials.												
Vendor Secure Storage	60	1	60	-	Area for containers, usually provided by the various temporary construction sub-contractors.	-	Enclosed space.	Assumes container units or existing space.												
Materials Staging Area	50	1	50	-	Area for the off-loading and loading of bulk construction materials.	-	Area only.	-												
Exterior Storage Area	50	1	50	-	Outdoor storage of material and products.	-	Area only.	Weatherproof area for large and bulk materials.												
Vehicle Staging	90	1	90	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	-	Area only.	Service, Repair & Specialty vehicles												
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.			I	F							P	
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.	-			I	F							P	

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Power Generators Location		Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.		I			F					P	
	Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.											
	Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-	-											
Venue Management																				
Venue Operations Centre (VOC)		60	1	60	90	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Venue capacity and venue layout.					F					P	
	Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-											
	Assigned Desks	20	1	20	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
	Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
	Work Space and Storage	18	1	18	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)		40	1	40	50	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.					F					P	
	Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
	Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
	Communication Operators (VCC Operators)	24	1	24	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	-											
	Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)		150	1	150	180	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre	Enclosed space. Assumes existing space.	Potential User Groups: 1. Venue Staff daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.					F					P	
Workforce																				
Workforce Area		150	1	150	180	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.					F					P	
	Check-In Area	96	1	96	-	Area to log-in venue staff and contractors by day or shift.	-	Check-in desks.	-											
	Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
	Information Desk, Lost & Found & Work Area	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
	Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area		335	1	335	400	The space where workforce meals are served and where workforce can break during their shift.	A location that will provide easy access to all workforce for breaks and meals; will vary according to venue layout/size.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon workforce numbers..					F					P	
END OF DOCUMENT																				

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation				
Accreditation																							
Venue Accreditation Office	40	1	40	100														P	-				
Day Pass Issue & Problem Resolution Desk	10	1	10	-	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Work Area	12	1	12	-																			
Manager Desk or Office & Storage	12	1	12	-																			
Waiting Area	6	1	6	-																			
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	-	Enclosed space. May be required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.				F						P	-				
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.				F											
Broadcast																							
Broadcast Compound	-	1	-	3000	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements. Located in temporary structure. Assumes container/trailer unit or tent.				J		J				R	IOC				
Broadcast Management Office	60	1	60	150		Located near entrance to compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.				I		F				G	IOC				
Broadcast Manager Office	12	1	12	-	Space for the broadcast management and administrative team.	-	-	-															
Work Room, Assigned & Unassigned Desks	48	1	48	-		-	-	-															
Technical Operations Centre	30	1	30	75	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.				I		F				R	IOC				
Broadcast Catering	105	1	105	122		Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Kitchen & Prep	15	1	15	-		-	-	Assumes container unit.															
Buffet Line & Dining	90	1	90	-	Dining and break area for broadcast personnel.	-	-	Assumes container unit or tent.															
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements.															
Work Area(s)	20	Varies	Varies	-		-	Enclosed space.	Assumes container units.															
Mobile Unit(s)	65	Varies	Varies	-		-	-	-															
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters.															
Work Area(s)	20	Varies	Varies	-		-	Enclosed space.	Assumes container units.															
Mobile Unit(s)	65	Varies	Varies	-		-	-	-															
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.															
Toilets	1.5	4	6	18	Toilet units designated for broadcast personnel.	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.															
Commentator Control Room	50	1	50	65	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in close proximity to commentator position area	Enclosed space with incoming television cable.	Assumes existing space or container.				I		F				R	IOC				
Broadcast Information Office (BIO)	12	1	12	15	Space for broadcast management and team meetings.	Located near commentator positions and CCR	Enclosed space.	Assumes existing space or container.				J		J				R	IOC				
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-				J		J				G	IOC				
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J			J	J			R	IOC				
Mixed Zone	15	1	15	100	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Adjacent to the FOP	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I	I	J			J	I			R	IOC, IF				
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in seating areas with view to FOP and covered when possible.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Outdoor commentator positions should have the option of cover for protection from various weather conditions (e.g. sun, rain). Space for commentator positions may vary according to actual venue/permanent seating setup.				I	J		J	I		R	IOC				
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	Located at the rear of the commentator grouping so as not to disrupt the FOP view of other commentator positions.	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	A com-cam position equals 2 adjacent commentator positions.				I	J		J	I							

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Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions	1 position = uses 1 seat in existing seating bowls.				I	J						R	IOC
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval. Space for camera positions may vary according to actual venue/permanent seating setup.	J		I	J						R	IOC
Camera Position - Other	4	20	80	180	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	Space for camera positions may vary according to actual venue/permanent seating setup.	I		I	J						R	IOC
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-				J	I					G	IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	-				J	I					G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in BOH areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.				J	I					G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography, in conjunction with OBS and IFs.	J			J	I					R	IOC
Catering																			
Catering Compound	394	1	394	600	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity.		I		F						P	
Work Areas - Catering Management	24	1	24	-		Generally, located in Catering Compound or possible the VOC.	Enclosed space.	Assumes existing space or container.											
Organising Committee Catering Manager	-	-	-	-		-	See Venue Management - VOC.	-											
Catering Contractor	12	1	12	-		-	-	-											
Beverage Contractor	12	1	12	-	Operational work space(s).	-	-	-											
Dry, Cold & Ice Storage	38	4	152	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.											
Vehicle Staging	50	1	50	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-											
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-											
Kitchen & Preparation Area	54	1	54	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.											
Uncovered Storage	50	1	50	-	Outdoor storage of material and products.	-	Area only.	-											
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	-											
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container(s). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity, level of catering activity.		I		F						P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	-											
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	-											
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue catering facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-		I		F						P	

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Ceremonies																				
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-			I	F							P	
Ceremonies Staging	20	1	20	25	For the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule; to coordinate location of podium, procession, and recession route, and location of flagpoles.	Adjacent to or close to FOP.	Consists of coordinator work space with area for secure storage, preparation and dressing area. See below for additional details.	Assumes existing space or container.			I	F							P	
Manager Desk	6	1	6	-	Work space for Manager.	-	-	-												
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenters, Medal/Flower staging, Secure medal and flag storage	12	1	12	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenter Preparation & Dressing	4	2	8	-	A dressing and preparation area for Presenters.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.													
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	-	Limited use, may be shared with other space. See Sport Presentation.	-												
Awards Podium Storage	8	1	8	12	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	Adjacent to FOP			I	F							P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.	I	J	J					J	G	R	IOC	
Cleaning and Waste																				
Cleaning & Waste Compound	175	1	175	250	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependent upon venue capacity.					F						P	
Vehicle Staging	50	1	50	-	Parking area for collection vehicles which generally remain inside the venue.	-	Area only.	-												
Sorting Area	50	1	50	-	Area for sorting waste.	-	Area only.	-												
Waste & Recycle Containers	15	3	45	-	Area in front of waste and recycle bins where material is separated for containment.	-	Area for containers. Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).												
Compactor Unit	25	Varies	Varies	-	Area in front of waste and recycle bins where material is separated for containment.	-	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.												
Equipment Supply & Storage	15	1	15	-	Space for cleaning equipment and paper product.	-	Enclosed space.	Assumes container unit.												
Contractor Office	15	1	15	-	Space for management and workforce staging.	-	Enclosed space.	-												
Doping Control																				
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	An Office and storage area will be incorporated into the existing spaces (e.g. waiting area/reception).	J	J	J								R	IOC
Waiting Area/Reception	16	1	16	20	Area where athletes check-in and wait prior to testing.	-	-	-												
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer. Wash basin for hand sanitisation.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-	I	J	J								R	IOC

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Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.					F						P
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of staff pre and post shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large group.	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.					F						P
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.					F						P
Information Desk	-	-	-	-	-	-	-	-											
Lost & Found	-	-	-	-	A holding area for items found in the venue.	-	-	-											
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spectators.	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	Adjacent to Public Information.	-	-					F						P
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes 12m away from covered search area.	Total number generally 50% of security screening positions.					F						P
Stroller Storage	72	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	-	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.					F						P
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.					F						P
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators					F						P
Spectator Shade & Shelter	1	Varies	Varies	-	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and event services areas.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.					F						P
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-					F						P
Spectator Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators.	-	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.					F						P
Hand Wash Stations	1	Varies	Varies	6 (per 20 toilets)	A chemical unit used in the absence of potable water.	-	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.					F						P

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Finance																			
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre. Generally located inside venue perimeter and outside venue perimeter.	See Venue Management - Venue Operations Centre.	-		I		F						P	
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.		Area only.	Quantity dependent upon venue capacity.		I		F						P	
Language Services																			
Work Area / Desk	15	1	15	20	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre.	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-			J	J						G	IOC
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference needs.	-			J	J						G	IOC
Logistics																			
Logistics Compound	-	1	Varies	500	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access. Secondary Compound Area - an additional compound area may be necessary for staging or storage of equipment that is in close proximity to FOP and/or the finish area.										P	
Logistics Centre	40	1	40	-			Enclosed space.	Assumes container units or tent.											
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.														
Team Staging/Work Area	25	1	25	-	Space for staging and a work area.														
Secure Storage & Equipment Sign-out	12	1	12	-	Area for storage.		Storage for tools.												
Warehouse Storage	65	1	65	-	Storage area for furniture, fixtures, and equipment (FF&E).		Enclosed space.	Assumes tent											
Storage Yard	50	1	50	-	Outside storage area within compound.		Area only.												
Vehicle Staging	75	1	75	-	Area for vehicle movement and turnaround.		Area only; delivery unloading.												
Fuel Tank(s)	9	Varies	Varies	-	An area where containers are installed for the refueling of vehicles.		Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.											
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.		May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.											
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.		May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.											
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.		Assumes temporary units. Accessible toilets should be provided.											
Material Transfer Area (MTA)	-	1	-	400	An area where packages or other items are delivered when they arrive outside the venue delivery schedule times. Device for screening of boxes/bags/hard goods coming into the venue.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations. May be added as a component of security screening.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.					F				G	P	
X-Ray Area	18	1	18	36				Assumes enclosed tent.											

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Look of the Games																			
Work Area and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.					F					P	
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J					J		R	IOC
National Olympic Committee (NOC) Flags	-	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.				J	J			J		R	IOC
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and back of locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J				J	G	R, P	IOC, IF
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals.	-											
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH).	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	-	I	J	J					J	G	R	IOC, L
Backdrop - Press Conference Room	2.2 x 6	1	2.2 x 6	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F		I	I				
Medical Services																			
Athlete Medical	50	1	50	75	An area where Medical provides services to athletes competing at the venue.	Located within the accredited Athlete Area.	Enclosed air-conditioned space.	Assumes container or existing space. Located in or near Athlete Compound	J	J	J					J		S	IF
Reception & Waiting	10	1	10	-	Area where athletes check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	2	16	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Physiotherapy Area(s)	8	1	8	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J					J		S	IF
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.											
Spectator Medical	40	1	40	80	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed air-conditioned space. 1 per 20,000 spectators	Assumes container unit or existing space.		I	F	I	I					P	
Reception & Waiting	10	1	10	-	Area where spectators check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	8	1	8	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	2	16	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Triage Station	9	1	9	18	Additional space to treat minor medical needs of spectators.	-	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.		I	F	I	I					P	
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.				F	I	I				P	
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Paved, graveled or grass area with fence, barricade or rope enclosure.	-				F	I	I				P	

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Merchandise																				
Office, Cash Room & Work Area	12	1	12	15	An area to manage the retailing of all Olympic merchandise inside the venue.	-	Enclosed space with secure entry.	Assumes container unit or existing space.					F						P	
Storage	15	1	15	20		-	-	Assumes storage containers or existing space.					F							P
Program Sales Stands/Booths	1	1	1	2		-	Area only.	Units provided by vendor. Quantity and location decided by vendor and OCOG.					F							P
Merchandise Points of Sale (POS)	6	Varies	Varies	18		Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.	Gross area is per each P.O.S. and includes service area and queue.	I			F							P
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-	I	J	J						G	R	IOC	
Olympic Family Services																				
Olympic Family Lounge	162	1	162	370	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes tent.	I		I	F					I	G	G	IOC
Welcome Desk & Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-	-												
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.	-												
Staff/Volunteer Room & Storage	9	1	9	-	On-call waiting area for Protocol staff and equipment storage.	-	-	-												
Dining & Lounge	90	1	90	-	Area for dining and lounge.	-	-	-												
Preparation/Buffer set-up/Beverage Area	45	1	45	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Staff/Volunteer, Athlete, Media)	-												
Toilets	20	1	20	40	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	2 female, 2 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided.	I		F						I	G	G	IOC
Protocol flags	-	-	-	-	-	-	See Look of the Games	-		J	J							J	R	IOC
Press Operations																				
Venue Media Centre (VMC)	350	1	350	550	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Confer	Close proximity to Press Tribune, Press Conference room, and Mixed Zone area.	Enclosed space for 60 press and 15 photographers.	Assumes tent. Space estimate approx minimum for Fencing as a stand alone sport. Could share larger press conference room at multi-sport venue. Separate entry for athletes from press is preferable				F						R	IOC	
Reception & Information Desk	18	1	18	-	Welcome desk at the entrance, for information distribution.	-	-	-												
Storage	4	1	4	-	Equipment storage.	-	-	-												
Press Manager Office	12	1	12	-	Operational work space.	-	-	-												
Photo Manager Office	12	1	12	-	Operational work space.	-	-	-												
Olympic News Service (ONS) Work Room or Area	25	1	25	-	Operational work space.	-	Enclosed space.	-												
Info Stations	20	1	20	-	Computer stations and printers.	-	-	-												
Press Work Room or Area	150	1	150	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.												
Photo Work Room or Area	35	1	35	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.	-												
Photographers Check-in & Photo Bib Distribution	9	1	9	-	Area where photographers register and receive/return photo bibs.	-	-	-												
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.												
Lounge/Catering Prep	50	1	50	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-	-												
Toilets	1.5	6	9	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided												

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Press Conference Room	100	1	100	210	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I			F						R	IOC
Seating Area	60	1	60	-	An area for accredited press.	-	Seats and standing room.	-											
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3.6 m table, 8 chairs & step and repeat backdrop.	-											
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-											
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-											
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-				F			I	I			
Mixed Zone	10 linear mars.	1	10 linear mars.	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I		I	F						R	IOC,IF
Press Tribune	-	-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	-	Tabled seating is fitted out with telephones, television monitors, power and other press facilities (indoor venues). For outdoor venues, these services will exist in VMC.	-											
Press Tabletop Seating	Varies	Varies	Varies	-	-	Easy access from Venue Media Centre and direct access if possible to Mixed Zone.	In an existing stadium or seating area: 1 seat wide (folding chairs at 60 cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50 cm deep tabletop per position, each position = 2 stadium seats. Temporary Stands: 1 seat (folding chairs at 60 cm spacing) x 2 rows deep of proposed seating system (normally 150 cm-170 cm deep).	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.			I	F					R	IOC,IF	
Press Seating (non-tabled)	Varies	Varies	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.			I	F						R	IOC,IF
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided											
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-											
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	In close proximity to FOP.	Approx. 60 photographers expected at peak finals periods. 60cm wide x 90cm deep per position, multi-row areas require 60cm riser per row.	Power, Wireless and data cabling needed to photo positions on FOP.	J		I	J						R	IOC, IF
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Normal seating areas.	-	Seating areas are generally not applicable for outdoor venues.	I		I	F						G	IOC
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

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Security																				
Security Command Centre	100	1	100	120	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.												
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-												
Security Work Area	15	1	15	-	An area for additional security agencies.	-	-	-												
CCTV Surveillance & Video Desk	12	1	12	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-												
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.												
Radio Dispatch & Monitoring	12	1	12	-	An area for the monitoring and control of security communication and the distribution/return of radios.	-	-	-												
Work Room	40	1	40	-	Open plan of work stations designated for security personnel.	-	-	-												
Secure Storage	8	1	8	-	An area for Security equipment storage.	-	-	-												
Dog Cage(s)	4	Varies	Varies	8 (each)	Holding area for security dogs.	-	Area only for enclosed portable units (e.g. cages)	Dependent on Host City / Country / Risk Assessment												
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-												
Briefing and Break Area / Staging Area	75	1	75	-	Area for briefing staff before and after shifts.	-	Enclosed space.	Assumes tent.												
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.												
Vehicle Screening & Sanitisation Area	377	1	377	500	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.												
Vehicle Queue	100	1	100	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-												
Oversized Vehicle Queue	70	1	70	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-												
Vehicle Sanitisation & Wanding Areas	100	1	100	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.												
Oversized Vehicle (Truck & Bus) Sanitization	70	-	70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-												
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.												
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Enclosed space.	-												
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the Venue Secure Perimeter and/or venue screening area for constituents.	-	-												
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-												
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-												
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-												
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.												

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Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the Venue Secure Perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	-										G	P		
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the Venue Secure Perimeter.	Net area for each screening position will accommodate: 4 Wanding Stations, OR - 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue.													
Athlete / Team	18	1-2	18-36	36-72	-	-	Screening and search area is covered.	-	I		F							I	P		
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	-	-	-	I		F							I	P		
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	-	-	-	I	I	F							I	P		
Broadcast	18	1-2	18-36	45-90	-	-	Screening and search area is covered. Direct access from outside venue perimeter into Broadcast Compound.	Search area is covered. Direct access from outside venue perimeter into Broadcast Compound.				F			I				R	IOC	
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	-	-	-													
Press and Photographer	18	1-2	18-36	36-72	-	Located in close proximity if possible to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast) preferably leading directly into Press areas.	-				F							R	IOC	
Staff, Volunteer, Contractor & Vendor	18	2-3	36-54	90-135	-	-	-	-				F							G	IOC	
Spectator / Sponsors	18	Varies	Varies	54	-	-	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-				F							P		
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.													
Exception Gate	-	-	-	-	Access gate for designated accredited personnel.	Located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.													
X-ray of bags	54	Varies	Varies	100 (each)	Device for screening bags/equipment coming into the venue.	-	-	-				I	F					G	P		
Venue Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	-				F	I						P		
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	Located at each security screening area, 1m to 3m width, sometimes used as a secondary service vehicle exit point.	-													
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m in width, number varies per concourse design.	-													
Staff, Volunteer, Contractor & Vendor	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	-													
Sponsor Services																					
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.				I	F						P		

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IFC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Sport Operations																			
Competition Management	45	1	45	70	A work area for Sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located close to Athlete Area and FOP; may be co-located within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space.	I			F						P	
Competition Manager & Asst. Mngr. Desks	12	1	12	-	An area for the Manager and Assistant(s) Manager.	-	-	-											
Assigned Work Area	15	1	15	-	Open plan of work stations designated for Sport personnel.	-	-	-											
Hot Desks	6	1	6	-	Shared work stations.	-	-	-											
Work Area	12	1	12	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-											
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-											
Sport Information	50	1	50	75	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located in Athlete Area. Adjacent to or within Athlete Lounge.	Enclosed space, waiting area with seating.	Includes: information boards, pigeon holes, Info & Help desk, work area, info terminal stations & storage.	J			J						R	IF
Athlete Lounge	150	1	150	175	An area where athletes can relax at the venue while not training or competing.	Located in Athlete Area.	Enclosed space.	Includes: seating area, lounge, Info & Help Desk, info terminal stations.	J			J						R	IF
Athlete Dressing, Locker, Shower, Toilet	50	2	100	120	Change-room facilities to accommodate athletes at the venue during competition and training.	Located in Athlete Area.	Enclosed space. Separate male and female facilities.	Assumes container units or existing space.	J			J						R	IF
IF & Sport Meeting Room	30	1	30	45	Meeting facility at the venue for the International Federation and Competition Management.	Located in close proximity to the IF Area and Competition Management area.	Enclosed space.	Shared meeting room area between IF & Sport to serve various meeting needs.	J			J						G	IF
Weapons Control	40	1	40	50	Storage for athlete/team sport equipment.	Located adjacent to FOP or within close proximity.	Enclosed space.	Assumes container units or existing space.	J			J	I					R	IF
Equipment Repair Room	40	1	40	50	Area for athlete's to repair equipment.	-	Enclosed space.	-	J			J	I					R	IF
Technical Operations Equipment Office	40	1	40	50	Storage of equipment required for competition.	Located adjacent to FOP or within close proximity.	-	-	J			J	I					R	IF
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	Reference should be made to FIE guidelines for all FOP technical requirements.	Total area required may be greater than playing surface dimension. Spectator seating is 7m from the piste. Special theatrical lighting.											
Playing Surface Dimensions or Area	-	-	-	-	Area where preliminary and finals competition are conducted.	-	-	-	F			I						R	IF
Preliminary	10 x 25	4	1000		One direct elimination hall with four piste areas in four different colours.	-	-	-											
Finals	10 x 30	1	300		A hall for finals with one piste.	Finals hall and direct elimination hall should be separate.	-	-											
Vertical Height Requirement	15	1	15	-	-	-	-	-											
Surface	-	-	-	-	-	-	Fencing specific equipment.	-	J			J	I					R	IF
Orientation	-	-	-	-	-	-	-	-	J			J	I					R	IF
Sports Lighting - Technical	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

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Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	-	-	-											
Warm-up Surface Dimensions or Area	1000	1	1000	-	-	Adjacent to FOP (as close as possible). Warm-up location must be directly linked to FOP.	8 pistes and marshalling Area for athletes to warm-up prior to competition	Total area required may be greater than playing surface dimension.	J		J				I	J		R	IF
Surface	-	-	-	-	-	-	Fencing specific equipment.	-	J		J	I						R	IF
Orientation	-	-	-	-	-	-	-	-	I		F	I						R	IF
Camera Positions - Biomechanics	3.5	1	3.5	-	-	Located in direct elimination hall and finals piste.	1 camera area IF and Teams; along with a camera area for biomechanical personnel.	-	I		F							G	IF
Athlete Staging (Call Room- Final)	50	1	50	-	-	-	-	-	I		F							R	IF
Athlete / Team Seating	-	-	-	-	-	A designated seating area for athletes.	-	-	J	I	J					J			
Same Sport	-	Varies	-	-	-	-	-	-	J	I	J					I		R	IOC,IF
Different Sport	-	Varies	-	-	-	-	-	-	I	I	F					I		R	IOC
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	May be required for Sport Staff use. Quantity varies according to athlete numbers.				F						P	
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	Required if FOP is not located near Athlete Area.	Assumes temporary units. Quantity varies according to athlete numbers.				F						P	
International Federation																			
IF Area	60	1	60	90	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located in close proximity to accredited seating areas.	Enclosed space.	Assumes container units or existing space.	I	I	F							R	IF
IF President's Office	15	1	15	-	-	-	-	-	I	I	F							R	IF
IF Secretary - General/Executive Director's Office	15	1	15	-	-	-	-	-	I		F							G	IF
Reception, Secretariat, Waiting & Work Area	30	1	30	-	-	-	-	-	I		F							G	IF
Meeting Area	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-											
Jury Room	40	1	40	55	This space is utilised for the resolution of protests and appeals after competition.	-	Enclosed space.	Assumes container units or existing space.	I		F							R	IF
Officials Lounge	50	1	50	60	A rest area for officials.	-	Enclosed space.	Assumes container units or existing space.	J		J							G	IF
Technical Delegates Office & Work Area	15	1	15	20	Office area for Technical Delegates.	-	Enclosed space. 2 Technical Delegates.	Assumes container units or existing space.	I	I	F					I		R	IF
Appeals Room	40	1	40	55	A room to listen to appeals.	-	Enclosed space.	Assumes container units or existing space.	I	I	F					I		R	IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I	J	J					J		R	IOC,IF
Sport Presentation																			
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.											
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-			F							P	
Announcer Position	3	1	3	-	-	-	-	-			F							P	
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space. Staff Work, Green Room, Entertainer Staging and Dressing and Prop Storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.											

Space <small>(Sub-space(s))</small>	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Technology Operations																			
Technology Help Desk	20	1	20	-	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium Security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support staff & manager.	-					F					P	
Venue Technology Operations (VTO)	25	1	25	-	OCOG Technology Operations area. Operational work space for entire Venue Technology team, including Partners & contractors.	Adjacent to or within Venue Operations Centre (VOC).	Medium Security - lockable room. Air-conditioned office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	-					F				G	P	
OCOG Venue Technology Work Area	-	1	-	-	Work space for Venue Technology Manager, Assistant Venue Technology Manager, Technology Staffing Manager and associated volunteer(s).	-	-	Work space size may be dependent upon workforce per shift.											
AV Contractor Work Area	-	1	-	-	Work space for AV contractors/Technicians.	-	-	Work space size may be dependent upon workforce per shift.											
IT Provider Work Area	-	1	-	-	Work space for IT staff and "home base" for IT volunteers.	-	-	Work space size may be dependent upon workforce per shift.											
Reprographic Provider Work Area	-	1	-	-	Work space for reprographic contractors/technicians	-	-	Work space size may be dependent upon workforce per shift.											
Mobile Phone Provider Work Area	-	1	-	-	Workspace for mobile phone provider.	-	-	Work space size may be dependent upon workforce per shift. Charging area for Venue Operations workforce phones may be required.											
Wired Communications Provider Work Area	-	1	-	-	Work space for Wired Communications contractors/technicians.	-	-	Work space size may be dependent upon workforce per shift.											
Timing & Scoring/OVR Provider Work Area	-	1	-	-	Work space for OVR/Timing and Scoring contractors/technicians.	-	-	May not be required if adequate working space is allocated in OVR room.											
Radio Distribution Room (RDR)	15	1	15	-	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E & workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).	I			F						P	
Information Technology																			
Computer Equipment Room (CER)	20	1	20	-	Area for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.	I			F					G	P	
Data Local Area Network (LAN) Management Room & Store	25	1	25	-	LAN monitoring room and associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational staff & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces.				F					G	P	

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Telecommunication & Audio Visual																				
Telecomm. Equipment Room (TER) Primary	36	1	36	-	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	Raised flooring is preferable for cabling distribution, but not essential.		I		F							P	
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.		I		F							P	
Telecomm. Operations & Store	25	1	25	-	Operational space for Telecommunications technical staff and associated storage for spare parts.	Adjacent to TER.	As TER with adequate FF&E to support operational staff & storage.	If located adjacent to TER, power supply boards, UPS units & A/C services can be common for both spaces.		I		F							P	
Audio Control Positions	-	-	-	-	-	-	-	-				F					G	P		
Venue - Preliminary Hall	4	1	4	-	Area within Sport Production, location for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Production, with view to FOP.	High Security. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	Storage for country anthems.												
Venue - Finals Hall	4	1	4	-	Area within Sport Production, location for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Production, with view to FOP.	High Security. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	Storage for country anthems.												
Press Conference	2	1	2	-	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), air-conditioned, waterproof. Work space & FF&E for operator.	PA system may also be used for Competition Draw if draw is held in Press Conference room.												
Athlete Briefing	2	1	2	-	PA systems required to facilitate briefings to athletes. Space required for amplifier/microphone.	Within Athlete Briefing area for Fencing.	Standard/mains power & FF&E.	-												
Warm-Up Area	2	1	2	-	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Within Warm-up area for Fencing.	Standard/mains power & FF&E.	-												
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-												
Workforce Break/Briefing	2	Varies	Varies	-	Area within Staff Break/Training room where audio control equipment is installed to facilitate meetings/training of large numbers of staff.	Workforce break/dining areas.	Standard/mains power & FF&E.	-												
Video Board Control	4	1	4	-	Area of video control for video board or video projection system. Operations integral with those of Sport Production.	Fencing Finals Arena - Ideally with Sport Production View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	Requirement based on deployment of Videoboard to ATH (mobile board).				F					G	P		
Wired Communications Control	2	1	2	-	Area of wired communications master control station and support technician. System essential to operations of both Sport Production and Results/FOP management.	Near to or within Sport Production is preferable. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location if located outdoors. Good cable access to FOP, OVR Room, Sport Production, Broadcast Graphics Room & Results Printing required. Workspace & FF&E for one technician, control equipment, spare parts and containers/boxes for equipment.	Two systems may be required if one cannot sufficiently provided communications for both Preliminaries and Finals.				F					G	P		
Temporary PA equipment Room	2 min	1	2 min	-	Temporary location for installation of PA active equipment (amplifiers etc) for venue PA system.	In existing PA equipment room, if applicable. May be located under venue seating/tribunes if existing room not available.	High Security. Fully redundant power (mains & standby generator) to equipment. Good cable access to speaker location and PA/Audio Control position required. Equipment installed in racks. Each rack set is 1000H x 600W x 600 D maximum.	Number of racks will depend on size of system deployed. Generally venues with large geographic area (outdoor) require larger installation and therefore more racks of amplifier equipment. Two areas may be required if one cannot sufficiently provided space for equipment supporting both Preliminaries and Finals.				F						P		

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Timing, Scoring, & Results Operations																			
Results Data Entry Position	-	-	-	-	Area(s) for event results and/or statistics data entry during competition.	As noted below	High Security. Fully redundant power (mains & generator) with UPS to all results data entry equipment/workstations. Space & FF&E for all data entry personnel & results management staff.	Where data entry occurs outdoors, adequate weather (rain/sun) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
Field of Play - Preliminaries Area	3	3	9	-	Areas/positions for results and/or statistics on the FOP.	FOP located at Technical Table with sport officials.	-	May occur as a position on the FOP, or in a room with a view to the FOP.											
Field of Play - Finals Area	3	3	9	-	Area back of house where data entry is performed into the OVR/Results System.	FOP located at Technical Table with sport officials.	-	Generally occurs Back of House, in sport location.											
Timing and Scoring Position	-	-	-	-	Area(s) for event timing & scoring personnel & equipment during competition.	Sport Specific. However, all locations must have view to FOP	High Security Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards, ball speed guns & OVR room. Space & FF&E for operators and equipment.	Where timing and scoring take place outdoors, adequate weather (rain/sun/snow) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
Field of Play - Preliminaries Area	4	4	16	-		FOP located at each Piste.	1 x position for scoring operations at each Piste (4 x Pistes).	-											
Field of Play - Finals Area	2	1	2	-		FOP Official Table	1 x position for scoring operations at finals piste.	-											
On Venue Results (OVR)	-	-	-	-	Area is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	Easy access to FOP critical for technical and results staff.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Space & FF&E required for high density of computer workstations, racks for servers and working space for technicians, operators and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or venues where two sports occur concurrently will require more space for additional OVR equipment.	I	F								P	
OVR Provider Work Area	30	1	30	-	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO/CIS/PRD etc).	Ideally adjacent to IT provider work area.	Space required for OVR operations supporting both Preliminaries & Finals Arenas.	-											
IT Provider Work Area	18	1	18	-	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-											
Scoreboard Control	-	-	-	-	Area of scoreboard control operations. Operations integral with those of Sport Production, data provided from OVR System. Space for both Control and Interface workstations and 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.	I	F							G	P	
Scoreboard Control - Preliminaries	2	1	2	-	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator & workstation control PCs. Required for both Preliminaries Public Board & Finals Public Board.	Adjacent/co-located with Scoreboard Interface.	-	-											
Scoreboard Control - Finals	2	1	2	-															
Scoreboard Interface - Preliminaries	2	1	2	-	Area for interface equipment (PC workstations) linking OVR system & Scoreboard Control workstation. Required for both Preliminaries Public Board & Finals Public Board.	-	-	-											
Scoreboard Interface - Finals	2	1	2	-	Area for interface equipment (PC workstations) linking OVR system & Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-											

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Results Printing (PRD)	60	1	60	-	Area for hard copy results production and distribution. Location of high intensity work involving many staff preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area and position for the Print Distribution Workstation (IDS interface) equipment and operator.	Near/adjacent to Press Workroom, access to Press Tribunes, Broadcast Commentary Positions, Sport Information Desk, Doping & Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specification. Space & FF&E required for equipment and operational staff as well as space for 1 x pallet of paper to support print/copy operations.	-	I	I	I	F					I	R	IF, Swatch
TV Graphics Interface	3	1	3	-	Area where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operators & good cable access to OVR room.	-				I		F			G	P	
Technology Storage																			
Technology General Storage	15	1	15	-	Area for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F					G	P	
IT Bulk Storage	30	1	30	-	Storage area for all spare IT equipment & associated boxes/containers.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to IT provider at all times.				F					G	P	
Reprographic Primary Storage Area	12	1	12	-	Primary storage/technical area in-venue for reprographic provider. Storage for spare parts, additional devices and consumables serving primarily Results Printing Operations.	In venue location adjacent to, or within Results Printing Room.	High Security - lockable. Standard office environment with standard power. Workspace & FF&E for one technician.	-	I		F						G	P	
Reprographic Bulk Storage Area	20	1	20	-	Storage area for bulk paper allocated to venue (multiple pallets).	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of paper required to support venue operations.				F					G	P	
Timing and Scoring Workshop	10	1	10	-	In venue storage and workshop for timing equipment, spare parts and small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.	-	I		F						G	P	
Timing & Scoring Bulk Store	30	1	30	-	Storage area for large crates and containers used for scoreboards and bulk equipment. Must be accessible to OVR provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of Timing & Scoring equipment deployed to venue. May be combined with Timing & Scoring Workshop if location & size of space meet requirements for venue.	I		F						G	P	
Audio Visual Bulk Store	30	1	30	-	Storage area for large crates and containers used for video boards, PA equipment and TV boxes. Must be accessible to Video/Public address provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of audio/video equipment deployed to venue.				F					G	P	
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required to distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closet. CCFs are to be installed in locations that allow for easy access for service technicians and easy cable access from TER room and to user device locations.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Work Room.	High Security - lockable & weatherproof. May require fan or dedicated A/C depending upon room location and / or configuration. Fully redundant power (mains & generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.	I		F							P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of Power from Data/Voice and Audio Visual Cabling	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in a manner which allows for easy access and repair/replacement. Legacy installations are to be installed as permanent while temporary (overlay) should be installed using methods which are easily installed & removed minimising potential damage to existing venue.					F					P	
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.	-	-	"											
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.	-	-	"											
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.	-	-	"											
CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	"											
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	"											
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-											
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-											
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-											
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-											
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-											
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I		F								P
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.											

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Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to Video Control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.		I		F						P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the videoboard. Required for outdoor venues where the videoboard cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each videoboard.											
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Production on a sport specific basis.	Adequate power, cable pathways to/from boards to Video Control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.		I		F					G	P	
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to / from audio / PA amplification system and / or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend PA speakers from venue ceiling structure.	-	-	-											
Mobile Phone Infrastructure (antenna)	-	Varies	-	-	Infrastructure required to support installation of additional radio antenna and mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to / from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.		I		F					G	P	
Ticketing																			
Ticket Box Office	30	1	30	75	An area at the venue where Olympic tickets are sold.	Adjacent to the secure perimeter; near the spectator entry point of the venue	Gross area includes internal and external queue.	Assumes container unit with accessible access to internal and external service window. Dependent upon spectator capacity, venue layout and footprint and spectator access point locations.				F						P	
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	10	1	10	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s)	10	1	10	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	18	1	18	36	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.				F						P	
Driver Staging	55	1	55	100	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls. Assumes temporary units. Accessible toilet facilities should be provided.				F						P	
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside Venue Secure Perimeter.	-											
Storage Yard	-	1	-	12	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-				F						P	
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from each Host City, based on vehicle / bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.		J		J					I	P	
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.		J		J					I	P	
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F						P	
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.				F						G	IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.				F						G	IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.		I		F						G	IOC
Spectator and Staff Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				F						P	
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.		I		F						P	
Accessible	-	-	-	-	-	-	-	Part of Spectator total.				F						P	

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Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Surface areas paved or gravel.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have a drop-off in close proximity to accredited entry point and then driver will park.		I	F							P	
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.				F			I			P	
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.				F			I			P	
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-		J	J							P	
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes circulation.				F						P	
Emergency Services	-	-	-	50 (each)	-	Generally located inside the Secure Venue Perimeter.	-	Includes circulation.				F						P	
Venue Development																			
Site Management Compound	348	1	348	520	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Dependent upon venue footprint, extent of temporary works, and number of contractors.					F					P	
Site Management Area	45	1	45	-	-	-	Enclosed space.	-											
Site Manager & Assistant Site Manager(s) Work Area	12	1	12	-	Work and meeting area for the Site Manager and Assistant Site Manager.	-	-	-											
Site Administration Desk & Work Area	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-	-											
Response Team & Vendor Staging	18	1	18	-	On-site permanent and temporary facilities for specialty staff and general labor crew to be on-call.	-	-	-											
Secure Storage - Site Management	9	1	9	-	Area for storage.	-	-	-											
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.	-	Enclosed space. Area for office, staging and a secure storage area.	Assumes container units or existing space. Contractor usually installs container units at their own cost.											
Sign/Look Staging, Work Space/Secure Storage	35	1	35	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	-	Assumes container unit or existing space.											
Material Warehouse/Construction Work Space	55	1	55	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	-	Enclosed space.	Assumes tent or canopy with 2 side walls. Area for carpentry, painting and general construction. Storage for non-weather proof materials.											
Vendor Secure Storage	30	1	30	-	Area for containers, usually provided by the various temporary construction sub-contractors.	-	Enclosed space.	Assumes container units or existing space.											
Materials Staging Area	30	1	30	-	Area for the off-loading and loading of bulk construction materials.	-	Area only.	-											
Exterior Storage Area	30	1	30	-	Outdoor storage of material and products.	-	Area only.	Weatherproof area for large and bulk materials.											
Vehicle Staging	60	1	60	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	-	Area only.	Service, Repair & Specialty vehicles											
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.		I	F							P	
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.	-		I	F							P	
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.										P	
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.											
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-	-											

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Venue Management																				
Venue Operations Centre (VOC)	45	1	45	70	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Venue capacity and venue layout.					F						P	
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-												
Assigned Desks	15	1	15	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.												
Hot Desks	6	1	6	-	Shared work stations.	-	-	-												
Work Space and Storage	12	1	12	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.												
Venue Communication Centre (VCC)	30	1	30	40	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.					F						P	
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-												
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-												
Communication Operators (VCC Operators)	15	1	15	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	-												
Storage	8	1	8	-	Equipment storage area.	-	-	-												
Multi-purpose Room (MPR)	100	1	100	120	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre	Enclosed space.	Assumes existing space or tent. Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.					F						P	
Workforce																				
Workforce Area	120	1	120	150	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.					F						P	
Check-In Area	76	1	76	-	Area to log-in venue staff and contractors by day or shift.	-	Check-in desks.	-												
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-												
Information Desk, Lost & Found & Work Area	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-												
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-												
Workforce Break & Dining Area	175	1	175	210	The space where workforce meals are served and where workforce can break during their shift.	A location that will provide easy access to all workforce for breaks and meals; will vary according to venue layout/size.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon workforce numbers..					F						P	
END OF DOCUMENT																				

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Accreditation																								
Venue Accreditation Office	50	1	50	125	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space. Enclosed space. Required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.											P	-				
Day Pass Issue and Problem Resolution Desk	15	1	15	-																				
Work Area	15	1	15	-																				
Manager Desk or Office and Storage	12	1	12	-																				
Waiting Area	8	1	8	-																				
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	-	-	Located in temporary structure. Assumes container/trailer unit or tent.											P	-				
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Broadcast																								
Broadcast Compound	-	1	-	3000	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements. Gross area includes snow removal access.																
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.											G	IOC				
Broadcast Manager Office	12	1	12	-		-	-	-	-															
Work Room, Assigned and Unassigned Desks	48	1	48	-		-	-	-	-															
Technical Operations Centre	40	1	40	100	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.											R	IOC				
Broadcast Catering	140	1	140	180	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	-																
Kitchen and Prep	20	1	20	-		-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.															
Buffet Line and Dining	120	1	120	-		-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.															
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements.																
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-																
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters.																
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-																
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.																
Toilets	1.5	8	12	36	Toilet units designated for broadcast personnel.	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Commentator Control Room (CCR)	45	1	45	55	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in close proximity to commentator position area.	Enclosed space with incoming television cable.	Assumes existing space or container unit.											R	IOC				
Broadcast Information Office (BIO)	20	1	20	25	Space for broadcast management and team meetings.	Located near commentator positions and CCR	Enclosed space.	Assumes existing space or container unit.											R	IOC				
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-											G	IOC				
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J								R	IOC				
Mixed Zone	20 linear mtrs.	1	20 linear mtrs.	170	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Adjacent to the FOP.	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I	I	J								R	IOC, IF				
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in seating areas with view to FOP and covered when possible.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Outdoor commentator positions should have the option of cover for protection from various weather conditions (e.g. sun, rain). Space for commentator positions may vary according to actual venue/permanent seating setup.											R	IOC				

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	Located at the rear of the commentator grouping so as not to disrupt the FOP view of other commentator positions.	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	A com-cam position equals 2 adjacent commentator positions.			I	J								
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions.	1 position = uses 1 seat in existing seating bowls.	-			I	J							R	IOC
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval. Space for camera positions may vary according to actual venue/permanent seating setup.	J		I	J							R	IOC
Camera Position - Other	4	20	80	180	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	Space for camera positions may vary according to actual venue/permanent seating setup.	I		I	J							R	IOC
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-					J	I	J				G	IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	See also Technology requirements.					J	I	J				G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in Back of House areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.					J	I	J				G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography	J			J	I	J	I				R	IOC
Catering																				
Catering Compound	565	1	565	850	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity. Gross area includes snow removal access.		I		F							P	
Work Areas - Catering Management	28	1	28	-		Generally, located in Catering Compound or possible the VOC.	Enclosed space.	Assumes existing space or container.												
Organising Committee Catering Manager	-	-	-	-		-	See Venue Management - VOC.	-												
Catering Contractor	16	1	16	-		-	-	-												
Beverage Contractor	12	1	12	-	Operational work space(s).	-	-	-												
Dry, Cold and Ice Storage	38	6	228	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.												
Vehicle Staging	90	1	90	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-												
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-												
Kitchen and Preparation Area	80	1	80	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.												
Uncovered Storage	75	1	75	-	Outdoor storage of material and products.	-	Area only.	-												
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilets should be provided.												
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit.	-												
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container's). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity and level of catering activity.		I		F							P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.												
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.												
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	See Look for details.	-		I		F							P	

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Ceremonies																				
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-											P	
Ceremonies Staging	36	1	36	45	For the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule; to coordinate location of podium, procession, and recession route, and location of flagpoles.	Adjacent to or close to FOP.	Consists of coordinator work space with area for anthem storage, secure storage, preparation and dressing area; see below for additional details.	Assumes existing space or container.											P	
Manager Desk	6	1	6	-	Work space for Manager.	-	-	-												
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenters, Medal/Flower staging, Secure medal and flag storage	22	1	22	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format. Medals storage is not required for those venues where the medal ceremony will take place at another location.												
Presenter Preparation and Dressing	4	2	8	-	A dressing and preparation area for Presenters.	In close proximity to FOP.	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-												
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	In close proximity to FOP.	Limited use, may be shared with other space. See Sport Presentation.	-											P	
Awards Podium Storage	12	1	12	15	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	-											P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.									J	G	R	IOC
Cleaning and Waste																				
Cleaning and Waste Compound	252	1	252	350	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependant upon venue capacity.												P
Vehicle Staging	72	1	72	-	Parking area for collection vehicles which generally remain inside the venue.	-	Area only.	-												
Sorting Area	72	1	72	-	Area for sorting waste.	-	Area only.	-												
Waste and Recycle Containers	15	4	60	-	Area in front of waste and recycle bins where material is separated for containment.	-	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).												
Compactor Unit	25	Varies	Varies	-	Area in front of waste and recycle bins where material is separated for containment.	-	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.												
Equipment Supply and Storage	15	2	30	-	Space for cleaning equipment and paper product.	-	Enclosed space.	Assumes container unit.												
Contractor Office	18	1	18	-	Space for management and workforce staging.	-	Enclosed space.	-												
Doping Control																				
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	-		J	J	J							R	IOC
Waiting Area/Reception	26	1	26	30	Area where athletes check-in and wait prior to testing.	-	-	-												
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Blood Processing Room(s)	15	Varies	Varies	20 (each)	Area where athlete blood samples are provided and sealed	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer. Wash basin for hand sanitisation.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Office / Storage	12	1	12	15	Work and storage space for Doping Manager.	-	Enclosed space. Secure storage.	-												
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-		I	J	J							R	IOC

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Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.				F						P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of workforce pre-shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large group.	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.				F						P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.				F						P	
Information Desk	-	-	-	-	-	-	-	-											
Lost and Found	-	-	-	-	A holding area for items found in the venue.	-	-	-											
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spectators.	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	-	-	Will depend on level of service at venue.				F						P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes; located between screening/search area and spectator plaza.	Total number generally 50% of security screening positions.				F						P	
Stroller Storage	Varies	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	In close proximity to seating area.	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.				F						P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.				F						P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators				F						P	
Spectator Shade and Shelter	Varies	Varies	Varies	72 (each)	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and spectator service amenities.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.				F						P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-				F						P	
Spectator Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators.	Located in FOH, close proximity to seating and spectator amenities.	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.				F						P	
Hand Wash Stations	1	Varies	Varies	6 (per 20 toilets)	A chemical unit used in the absence of potable water.	Located in FOH, close proximity to seating and spectator amenities.	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.				F						P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Finance																				
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I			F						P	
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Generally located inside venue perimeter and outside venue perimeter.	Area only.	Quantity dependent upon venue capacity.												
Language Services																				
Work Area / Desk	20	1	20	25	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre.	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-			J	J							G IOC	
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference needs.	-			J	J			I				G IOC	
Logistics																				
Logistics Compound	-	1	Varies	650	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access. Secondary Compound Area - an additional compound area may be necessary for staging or storage of equipment that is in close proximity to FOP and/or the finish area.											P	
Logistics Centre	60	1	60	-	-	-	Enclosed space.	Assumes container units or tent.												
Logistics Manager and Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-												
Team Staging/Work Area	33	1	33	-	Space for staging and a work area.	-	-	-												
Secure Storage and Equipment Sign-out	15	1	15	-	Area for storage.	-	Storage for tools.	-												
Warehouse Storage	90	1	90	-	Storage area for furniture, fixtures, and equipment (FF&E).	-	Enclosed space.	Assumes tent												
Storage Yard	75	1	75	-	Outside storage area within compound.	-	Area only.	-												
Vehicle Staging	100	1	100	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-												
Fuel Tank(s)	9	Varies	Varies	25 (each)	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.												
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.												
Material Transfer Area (MTA)	-	1	-	575	An area where packages or other items are delivered when they arrive outside the venue delivery schedule times.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.												P
X-Ray Area	36	1	36	72	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.												

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Look of the Games																				
Work Area and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.										P		
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J					J		R	IOC	
National Olympic Committee (NOC) Flags	-	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition sch	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.			J	J				J		R	IOC	
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and back of locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J				J	G	R,P	IOC, IF	
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals.	-												
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH).	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.		I	J	J				J	G	R	IOC, L	
Backdrop - Press Conference Room	2.2 x 6	1	2.2 x 6	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F			I	I				
Medical Services																				
Athlete Medical	76	1	76	125	An area where Medical provides services to athletes competing at the venue.	Located within the accredited Athlete Area.	Enclosed air-conditioned space.	Assumes container or existing space.	J	J	J					J		R	IF	
Reception & Waiting	15	1	15	-	Area where athletes check-in and wait prior to examination.	-	-	-												
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-												
Examination Area(s)	8	4	32	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-												
Physiotherapy Area(s)	8	2	16	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-												
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J					J		R	IF	
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.												
Spectator Medical	65	1	65	120	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed air-conditioned space. 1 per 20,000 spectators.	Assumes container unit or existing space.			I	F			I	I		P		
Reception & Waiting	15	1	15	-	Area where spectators check-in and wait prior to examination.	-	-	-												
Medical Work Space & Secure Storage	15	1	15	-	Space for Medical workforce.	-	-	-												
Examination Area(s)	8	4	32	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-												
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Triage Station	50	1	50	100	Additional space to treat minor medical needs of spectators.	Located in the Front of House.	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.			I	F			I	I		P		
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.										P		
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Paved, graveled or grass area with fence, barricade or rope enclosure.	-				F		I	I			P		

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Merchandise																										
Office, Cash Room and Work Area	12	1	12	15	An area to manage the retailing of all Olympic merchandise inside the venue.	-	Enclosed space with secure entry.	Assumes container unit or existing space.													P					
Storage	15	2	30	35		-	-	Assumes storage containers or existing space. Units provided by vendor. Quantity and location decided by vendor and OCOG.														P				
Program Sales Stands/Booths	1	1	1	2		-	Area only.	Gross area is per each P.O.S. and includes service area and queue.														P				
Merchandise Points of Sale (POS)	6	Varies	Varies	18 (each)		Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.					I		F							P				
Outlets' look	-	-	-	-	Look required for concessionaire units.	-	Venue merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-					I	J	J					G	R	IOC				
Olympic Family Services																										
Olympic Family Lounge	240	1	240	500	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests. Area to greet Olympic Family and respond to transport requests.	-	Enclosed space.	Assumes tent.				I		I	F					I	G	G	IOC			
Welcome Desk and Transportation Desk	6	1	6	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	-	-																		
Protocol Manager Office	12	1	12	-	On-call waiting area for Protocol staff and equipment storage.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.	-																		
Staff/Volunteer Room and Storage	12	1	12	-	Area for dining and lounge.	-	-	-																		
Dining and Lounge	140	1	140	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Staff/Volunteer, Athlete, Media)	-																		
Preparation/Buffer set-up/Beverage Area	70	1	70	-	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	4 female, 4 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided														P				
Toilets	30	1	30	60	-	-	See Look of the Games.	-														J	J	J	R	IOC
Protocol flags	-	-	-	-	-	-	-	-																		
Press Operations																										
Venue Media Centre (VMC)	495	1	495	700	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Confer	Close proximity to Press Tribune, Press Conference room, and Mixed Zone area.	Enclosed area for 145 media personnel (120 press and 25 photographers) to sit and work at tables.	Assumes tent. Assumes internal room or temporary structure such as tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. Size differences for Olympic and other city venues. Also be aware of men;s final being played in Olympic Stadium														F		R	IOC	
Reception and Information Desk	24	1	24	-	Welcome desk at the entrance, for information distribution.	-	-	-																		
Storage	6	1	6	-	Equipment storage.	-	-	-																		
Press Manager Office	12	1	12	-	Operational work space.	-	-	-																		
Photo Manager Office	12	1	12	-	Operational work space.	-	-	-																		
Olympic News Service (ONS) Work Room or Area	35	1	35	-	Operational work space.	-	Enclosed space.	-																		
Info Stations	28	1	28	-	Computer stations and printers.	-	-	-																		
Press Work Room or Area	225	1	225	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.																		
Photo Work Room or Area	30	1	30	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.	-																		
Photographers Check-in and Photo Bib Distribution	12	1	12	-	Area where photographers register and receive/return photo bibs.	-	-	-																		
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.																		
Lounge/Catering Prep	100	1	100	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-	-																		
Toilets	1.5	6	9	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided																		

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	I	J	F	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Press Conference Room	150	1	150	280	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I				F							R	IOC	
Seating Area	100	1	100	-	An area for accredited press.	-	Seats and standing room.	-														
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3.6 m table, 8 chairs & step and repeat backdrop.	-														
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-														
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-														
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-					F				I	I				
Mixed Zone	25-30	1	25-30	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Under FIFA practice, the press mixed zone is often combined with the press conference area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I				I	F						R	IOC,IF	
Press Tribune	-	-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	-	Tabled seating is fitted out with telephones, television monitors, power and other press facilities (indoor venues). For outdoor venues, these services will exist in VMC.	-														
Press Tabletop Seating	Varies	Varies	Varies	-	-	Easy access from Venue Media Centre and direct access if possible to Mixed Zone.	In an existing stadium or seating area: 1 seat wide (folding chairs at 60 cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50 cm deep tabletop per position, each position = 2 stadium seats. Temporary Stands: 1 seat (folding chairs at 60 cm spacing) x 2 rows deep of proposed seating system (normally 150 cm-170 cm deep).	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.					I	F						R	IOC,IF	
Press Seating (non-tabled)	Varies	Varies	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.					I	F						R	IOC,IF	
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided														
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-														
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	In close proximity to FOP.	Approx. 70 photographers expected at peak finals periods. 60cm wide x 90cm deep per position, multi-row areas require 60cm riser per row.	Power, Wireless and data cabling needed to photo positions on FOP.	J				I	J						R	IOC, IF	
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Normal seating areas.	-	Seating areas are generally not applicable for outdoor venues.	I				I	F						G	IOC	
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-														

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Security																				
Security Command Centre	120	1	120	145	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.												
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-												
Security Work Area	15	1	15	-	An area for additional security agencies.	-	-	-												
CCTV Surveillance & Video Desk	15	1	15	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-												
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.												
Radio Dispatch & Monitoring	15	1	15	-	An area for the monitoring and control of security communication and the distribution/return of radios.	-	-	-												
Work Room	50	1	50	-	Open plan of work stations designated for security personnel.	-	-	-												
Secure Storage	10	1	10	-	An area for Security equipment storage.	-	Enclosed, secure space.	-												
Dog Cage(s)	4	Varies	Varies	8 (each)	Holding area for security dogs.	-	Area only for enclosed portable units (e.g. cages).	Dependent upon Host City/Country / Risk Assessment.												
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-												
Briefing and Break Area / Staging Area	140	1	140	170	Area for briefing staff before and after shifts.	-	Enclosed space.	Assumes tent.												
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.												
Vehicle Screening & Sanitisation Area	569	1	569	800	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.												
Vehicle Queue	175	1	175	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-												
Oversized Vehicle Queue	140		140	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-												
Vehicle Sanitisation & Wanding Areas	150		75	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.												
Oversized Vehicle (Truck & Bus) Sanitisation	70		70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-												
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.												
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Enclosed space for staging and break.	-												
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the venue secure perimeter and/or venue screening area for constituents.	-	Dependent upon spectator capacity and venue design.												
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-												
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-												
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-												
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.												

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the venue secure perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.										R	IOC
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the venue secure perimeter.	Enclosed space for screening/search area positions.. Net area for each screening position will accommodate the following: 4 Wanding Stations, OR - 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue. Dependent upon spectator capacity and venue design.											
Athlete / Team	18	1-2	18-36	36-72	-	BOH.	-	-				F						R	IOC
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with Athlete and/or Olympic Family.				F						G	IOC
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with TO, ENG and/or Press.				F						P	
Broadcast	18	1-2	18-36	45-90	-	BOH.	-	If possible, direct access from outside venue perimeter into Broadcast Compound.											
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	BOH; located in close proximity to Venue Broadcast Compound.	-	-											
Press and Photographer	18	1-2	18-36	36-72	-	BOH; located in close proximity to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast).	If possible, direct access from outside venue perimeter into Venue Media Centre.				F		I					
Workforce (Staff/Volunteer/Contractor/Vendor)	18	2-3	36-54	90-135	-	BOH or possibly FOH.	-	-				J		J				P	
Spectator / Sponsors	18	Varies	Varies	54	-	FOH.	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-				I		F				P	
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.				F						P	
Exception Gate	Varies	Varies	Varies	-	Access gate for designated accredited personnel.	FOH; located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.				F						P	
X-ray of bags	36	Varies	Varies	72 (each)	Device for screening bags/equipment coming into the venue.	FOH and BOH.	Covered.	-				F		I				P	
Venue Perimeter Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	Dependent upon spectator capacity and venue design.											
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	1m to 3m width, sometimes used as a secondary service vehicle exit point.	-											
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m each, number varies per concourse design.	-											
Workforce (Staff/Volunteer/Contractor/Vendor)	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	Size dependant upon total workforce numbers.				I		F			G	P	
Sponsor Services																			
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.				I		F				P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Sport Operations																			
Competition Management	60	1	60	90	A work area for Sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located close to Athlete Area and FOP; may be co-located within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space.	I			F						P	
Competition Manager & Asst. Manager Desks	12	1	12	-	An area for the Manager and Assistant(s) Manager. Open plan of work stations designated for Sport personnel.	-	-	-											
Assigned Work Area	20	1	20	-	Shared work stations.	-	-	-											
Hot Desks	10	1	10	-	Non-designated work positions and equipment.	-	-	-											
Work Area	18	1	18	-	Area for meetings.	-	-	-											
Conference Area or Room	-	-	-	-	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located in Athlete Area.	Enclosed space.	Includes: information boards, pigeon holes, Info & Help Desk, work area, info terminal stations & storage.	J		J							R	IF
Sport Information	20	1	20	25	Change-room facilities to accommodate athletes at the venue during competition and training.	Located in Athlete Area.	Enclosed space. Male and female facilities.	Assumes container units or existing space. Accommodates athletes during double-headers. Area required for sports equipment storage.	J		J							R	IF
Athlete Dressing, Locker, Shower, Toilet	25	4	100	120	Meeting facility at the venue for the International Federation and Competition Management.	Located in close proximity to the IF Area and Competition Management area.	Enclosed space.	Shared meeting room area between IF & Sport to serve various meeting needs.	J		J							G	IF
IF & Sport Meeting Room	30	1	30	45	Storage for athlete/team sport equipment.	Located within Athlete locker room areas. Located adjacent to FOP or within close proximity.	-	-	J		J	I						R	IF
Sport Equipment Storage	40	1	40	50	Storage of equipment required for competition. Storage for maintenance equipment storage (groundskeepers equipment for pitch).	Located adjacent to FOP or within close proximity.	Area only for extra goals.	-	I		F	I						R	IF
FOP Equipment Storage	-	-	-	-	Enclosed space.	-	-	-	I		F	I						R	IF
FOP Maintenance Equipment Storage	-	-	-	-	Area where competition is conducted.	-	Reference should be made to FIFA guidelines for all FOP technical requirements.	-											
Field of Play (FOP)	-	-	-	-	Playing Surface Dimensions or Area	-	105 x 68 metres.	-	F		I							R	IF
Playing Surface Dimensions or Area	105 x 68	1	7140	-	-	-	Natural Grass.	-	J		J	I						R	IF
Surface	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											
Sports Lighting - Technical	-	-	-	-	Area where athletes prepare prior to competition.	-	-	-											
Warm-Up Area(s)	-	-	-	-	Warm-up Surface Dimensions or Area	FOP and/or secondary location.	Warm up location is behind goal; generally teams will warm-up on FOP prior to match (pre-game).	Teams use FOP area for pre-game warm-ups. If use of FOP is unavailable, a secondary warm-up pitch will be required.	J		J							R	IF
Warm-up Surface Dimensions or Area	105 x 68	1	7140	-	-	-	Natural Grass.	-	J		J	I						R	IF
Surface	-	-	-	-	A designated seating area for athletes.	-	-	-	J		I	J						R	IF
Athlete / Team Seating	-	-	-	-	-	-	-	-	J		I	J						R	IOC,IF
Same Sport	-	Varies	-	-	-	-	-	-	J		I	J						R	IOC,IF
Different Sport	-	Varies	-	-	-	-	-	-	I		I	F						R	IOC
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	Located in Athlete Area.	-	May be required for Sport Staff use. Quantity varies according to athlete numbers.				F						P	
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	Located adjacent to FOP.	Required if FOP is not located near Athlete area.	Assumes temporary units. Quantity varies according to athlete numbers.				F						P	
International Federation					Work space in the venue for IF operations. Reception, Secretariat, waiting and work area for IF personnel.	All FIFA offices are located at FIFA hotel in city location.	Enclosed space.	Assumes container units or existing space.	J		J							G	IF
IF Offices	30	1	30	35	Lounge and dressing room for technical officials.	-	Enclosed space for dressing room and lounge.	Assumes container units or existing space.	J		J							G	IF
Officials Room	25	1	25	30	Office area for Technical Delegates.	-	Enclosed space. 3 Technical Delegates.	-	I		I	F						R	IF
Technical Delegates Office & Work Area	15	1	15	20	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I		J	J						R	IOC,IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.											
Sport Presentation	23	1	23	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-			F							P	
Sport Production Control Room	20	1	20	-	-	-	-	-			F							P	
Announcer Position	3	1	3	-	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space, consisting of work area, green room, entertainer staging and dressing and prop storage.	Assumes container unit or existing space.			F							P	
Sport Entertainment Room	40	1	40	80	-	-	See Venue Management - Multi-purpose Room.	-										P	

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Technology Operations																			
Technology Help Desk	20	1	20	25	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support staff & manager.	-				F						P	
Venue Technology Operations (VTO)	25	1	25	32	OCOG Technology Operations area. Operational work space for entire Venue Technology team, including Partners & contractors.	Adjacent to or within Venue Operations Centre (VOC).	Medium security - lockable room. Air-conditioned as office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	-				F					G	P	
OCOG Venue Technology Work Area	-	1	-	-	Work space for Venue Technology Manager, Assistant Venue Technology Manager, Technology Workforce Manager and associated volunteer(s).	-	-	Work space size may be dependent upon workforce per shift.											
AV Contractor Work Area	-	1	-	-	Work space for AV contractors/Technicians.	-	-	Work space size may be dependent upon workforce per shift.											
IT Provider Work Area	-	1	-	-	Work space for IT workforce and "home base" for IT volunteers.	-	-	Work space size may be dependent upon workforce per shift.											
Reprographic Provider Work Area	-	1	-	-	Work space for reprographic contractors/technicians	-	-	Work space size may be dependent upon workforce per shift.											
Mobile Phone Provider Work Area	-	1	-	-	Workspace for mobile phone provider.	-	-	Work space size may be dependent upon workforce per shift. Charging area for Venue Operations workforce phones may be required.											
Wired Communications Provider Work Area	-	1	-	-	Work space for Wired Communications contractors/technicians.	-	-	Work space size may be dependent upon workforce per shift.											
Timing and Scoring/OVR Provider Work Area	-	1	-	-	Work space for OVR/Timing & Scoring contractors/technicians.	-	-	May not be required if adequate working space is allocated in OVR room.											
Radio Distribution Room (RDR)	15	1	15	18	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E and workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).				I	F					P	
Information Technology																			
Computer Equipment Room (CER)	20	1	20	25	Location for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room and Telecommunications TER Room	High Security - lockable. Fully redundant power (mains and generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace and FF&E for 2 technicians.	Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.				I	F				G	P	
Data Local Area Network (LAN) Management Room & Store	25	1	25	32	LAN monitoring room and associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational staff and storage.	If located adjacent to CER, power supply boards, UPS units and A/C services can be common for both spaces.				F					G	P	

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Telecommunication & Audio Visual																				
Telecomm. Equipment Room (TER) Primary	36	1	36	45	Includes telecommunications equipment (PABX, structured cabling racks for data and voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room and Telecommunications Operations Room	High Security - lockable. Fully redundant power (mains and generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations and CER. Working space for 2 technicians minimum.	Raised flooring is preferable for cabling distribution, but not essential.		I		F							P	
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.		I		F							P	
Telecomm. Operations & Store	25	1	25	32	Operational space for Telecommunications technical staff and associated storage for spare parts.	Adjacent to TER.	As TER with adequate FF&E to support operational staff and storage.	If located adjacent to TER, power supply boards, UPS units and A/C services can be common for both spaces.		I		F							P	
Audio Control Positions	-	-	-	-	-	-	-	-				F						G	P	
Venue - Preliminaries Arena	4	1	4	8	Area within Sport Production, location for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Production. Can be on FOP, in stands or in a booth with view to FOP.	High Security. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	Storage for country anthems.												
Press Conference	2	0	2	4	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), air-conditioned, waterproof. Work space & FF&E for operator.	-												
Warm-Up Area	0	0	0	-	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Within Warm-up area for Athletes.	Standard/mains power and FF&E.	-												
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-												
Workforce Break/Dining	2	Varies	Varies	-	Area within Staff Break/Training room where audio control equipment is installed to facilitate meetings/training of large numbers of staff.	Workforce break/dining areas.	Standard/mains power & FF&E.	-												
Video Board Control	0	0	0	-	Location of video control for video board or video projection system. Operations integral with those of Sport Production.	Ideally with Sport Production View to FOP and video board/projection screen is essential.	High Security. Fully redundant power (mains and generator) to control equipment. Weatherproofing if control location is located outdoors. Space and FF&E for both control equipment and operators (2) maximum.	-				F						G	P	
Wired Communications Control	2	1	2	4	Location of wired communications master control station and support technician. System essential to operations of both Sport Production and Results/FOP management.	Near to or within Sport Production is preferable. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains and standby generator) to control equipment. Weatherproofing in control location is located outdoors. Good cable access to FOP, OVR Room, Sport Production, Broadcast Graphics Room and Results Printing required. Workspace and FF&E for one technician, control equipment, spare parts and containers/boxes for equipment.	Two systems may be required if one cannot sufficiently provided communications for both Preliminaries and Finals.				F						G	P	
Temporary PA equipment Room	2 min	1	2 min	4 min.	Temporary location for installation of PA active equipment (amplifiers etc) for venue PA system.	In existing PA equipment room, if applicable. May be located under venue seating/tribunes if existing room not available.	High Security. Fully redundant power (mains and standby generator) to equipment. Good cable access to speaker location and PA/Audio Control position required. Equipment installed in racks. Each rack set is 1000H x 600W x 600 D maximum.	Number of racks will depend on size of system deployed. Generally venues with large geographic area (outdoor) require larger installation and therefore more racks of amplifier equipment. Two areas may be required if one cannot sufficiently provided space for equipment supporting both Preliminaries and Finals.				F							P	

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Timing, Scoring and Results Operations																			
Results Data Entry Position	-	-	-	-	Location(s) for event results and/or statistics data entry during competition.	As noted below.	High Security. Fully redundant power (mains & generator) with UPS to all results data entry equipment/workstations. Space & FF&E for all data entry personnel & results management staff.	Adequate weather (rain/sun) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
Statistics Room	5	1	5	10	Room/location for statistics calling and data entry into OVR system.	Adjacent/near OVR Room. Location must have view to FOP with sport statisticians.	-	May occur as a position on the FOP, or in a room with a view to the FOP.											
Timing and Scoring Position	-	-	-	-	Location(s) for event timing and scoring personnel and equipment during competition.	Sport specific. However, all locations must have view to FOP	High Security Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards & OVR room. Space & FF&E for operators and equipment. Adequate weather (rain/sun) protection for equipment/workstations to be provided.	-	I	I	I	F						R	IF, Swatch
Field of Play (FOP)	0	0	0	-	-	-	-	-											
Control Room	0	0	0	-	-	-	-	-											
On Venue Results (OVR)	-	-	-	-	Location is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	Easy access to FOP critical for technical and results staff.	High Security - lockable. Fully redundant power (mains and generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing and Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Space and FF&E required for high density of computer workstations, racks for servers and working space for technicians, operators and managers.	1) If sport is RTDS and or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing and Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or venues where two sports occur concurrently will require more space for additional OVR equipment.		I	F							P	
OVR Provider Work Area	20	1	20	25	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO/CIS/PRD etc).	Ideally adjacent to IT provider work area.	-	-											
IT Provider Work Area	18	1	18	23	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-											
Scoreboard Control	-	-	-	-	Location of scoreboard control operations. Operations integral with those of Sport Production, data provided from OVR System. Space for both Control and Interface workstations and 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains and generator) with UPS all scoreboard control and interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, and OVR room. Space and FF&E for control equipment and operators (2) maximum.	If Control and Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP and Scoreboards.	I		F						G	P	
Scoreboard Control	2	1	2	4	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator and workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-											
Scoreboard Interface	2	1	2	4	Area for interface equipment (PC workstations) linking OVR system and Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-											

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Results Printing (PRD)	60	1	60	75	Location for hard copy results production and distribution. Location of high intensity work involving many staff preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area and position for the Print Distribution Workstation (IDS interface) equipment and operator.	Near/adjacent to Press Workroom, access to Press Tribunes, Broadcast Commentary Positions, Sport Information Desk, Doping and Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains and generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specification. Space and FF&E required for equipment and operational staff as well as space for 1 x pallet of paper to support print/copy operations.	-	I	I	I	F						R	IF, Swatch
TV Graphics Interface	3	1	3	6	Location where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains and generator) all equipment in room, UPS TV Graphics Workstation and equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operators and good cable access to OVR room.	-				I		F			G	P	
Technology Storage																			
Technology General Storage	15	1	15	18	Location for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.						F				G	P
IT Bulk Storage	30	1	30	38	Storage area for all spare IT equipment & associated boxes/containers.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to IT provider at all times.						F				G	P
Reprographic Primary Storage Area	12	1	12	15	Primary storage/technical area in-venue for reprographic provider. Storage for spare parts, additional devices and consumables serving primarily Results Printing Operations.	In venue location adjacent to, or within Results Printing Room.	High Security - lockable. Standard office environment with standard power. Workspace and FF&E for one technician.	-			I	F						G	P
Reprographic Bulk Storage Area	15	1	15	18	Storage area for bulk paper allocated to venue (multiple pallets).	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of paper required to support venue operations.						F				G	P
Timing and Scoring Workshop	10	1	10	13	In venue storage and workshop for timing equipment, spare parts and small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space and FF&E for two technicians.	-			I	F						G	P
Timing and Scoring Bulk Store	20	1	20	25	Storage area for large crates and containers used for scoreboards and bulk equipment. Must be accessible to OVR provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of Timing and Scoring equipment deployed to venue. May be combined with Timing and Scoring Workshop if location and size of space meet requirements for venue.										G	P
Audio Visual Bulk Store	15	1	15	18	Storage area for large crates and containers used for video boards, PA equipment and TV boxes. Must be accessible to Video/Public address provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of audio/video equipment deployed to venue.						F				G	P
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required to distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closet. CCFs are to be installed in locations that allow for easy access for service technicians and easy cable access from TER room and to user device locations.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Work Room.	High Security - lockable and Weatherproof. May require fan or dedicated A/C depending on room location and/or configuration. Fully redundant power (mains and generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.						I	F				P
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of power from data/voice and audio-visual cabling.	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in a manner which allows for easy access and repair/replacement. Legacy installations are to be installed as permanent while temporary (overlay) should be installed using methods which are easily installed and removed minimising potential damage to existing venue.											P
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.	-	-	-											
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.	-	-	-											
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.	-	-	-											

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CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	-												
Timing and Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	-												
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-												
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-												
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure and weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-												
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-												
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-												
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing and Scoring/OVR contractor.		I		F							P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabing) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure and fixing points available on each scoreboard.												
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing and Scoring/OVR contractor.		I		F							P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the videoboard. Required for outdoor venues where the videoboard cannot be suspended from ceiling structure.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabing) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure and fixing points available on each videoboard.												
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Production on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing and Scoring/OVR contractor.		I		F						G	P	
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to/from audio/PA amplification system and/or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabing) required to suspend PA speakers from venue ceiling structure.	-	-	-												
Mobile Phone Infrastructure (antenna)	-	Varies	-	-	Infrastructure required to support installation of additional radio antenna and mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to/from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.		I		F						G	P	

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Ticketing																			
Ticket Box Office	40	1	40	100	An area at the venue where Olympic tickets are sold.	Adjacent to the secure perimeter, or on the secure perimeter with windows facing to the interior and exterior of the venue; near the spectator entry point of the venue, but away from the entrance queue areas.	Gross area includes internal and external queue.	Assumes container unit with disabled access to internal and external service window. Dependent upon venue layout and footprint, spectator access point locations.										P	
Manager Office and Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-					F						
Internal Ticket Sales Window(s)	15	1	15	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s)	15	1	15	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	25	1	25	50	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.					F					P	
Driver Staging	80	1	80	150	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.					F					P	
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside venue secure perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	20	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-					F					P	
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from Host City, based on vehicle/bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J						I	P	
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J							I	P
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F							P
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.				F			I			G	IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.				F							G IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.	I		F								G IOC
Spectator and Staff Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				F							P
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F							P
Accessible	-	-	-	-	-	-	-	Part of Spectator total.				F							P
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Surface areas paved or gravel.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have drop-off in close proximity to accredited entry point and then driver will park.			I	F							P
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.				F			I				P
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.				F			I				P
Press and Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-			J	J							P
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes vehicle circulation.				F		I					P
Emergency Services	-	-	-	50 (each)	-	Generally located inside the Secure Venue Perimeter.	-	Includes vehicle circulation.				F		I					P

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Venue Development																			
Site Management Compound	503	1	503	650	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Dependent upon venue footprint, extent of temporary works and number of contractors.											P
Site Management Area	60	1	60	-	-	-	Enclosed space.	-											
Site Manager & Assistant Site Manager(s) Work Area	12	1	12	-	Work and meeting area for the Site Manager and Assistant Site Manager.	-	-	-											
Site Administration Desk & Work Area	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-	-											
Response Team & Vendor Staging	24	1	24	-	On-site permanent and temporary facilities for specialty staff and general labor crew to be on-call.	-	-	-											
Secure Storage - Site Management	12	1	12	-	Area for storage.	-	Enclosed, secure space or container unit.	-											
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.	-	Enclosed space. Area for office, staging and a secure storage area.	Assumes container units or existing space. Contractor usually installs container units at their own cost.											
Sign/Look Staging, Work Space/Secure Storage	50	1	50	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	-	Assumes container unit or existing space.											
Material Warehouse/Construction Work Space	80	1	80	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	-	Enclosed space.	Assumes tent or canopy with 2 side walls. Area for carpentry, painting and general construction. Storage for non-weather proof materials.											
Vendor Secure Storage	60	1	60	-	Area for containers, usually provided by the various temporary construction sub-contractors.	-	Enclosed space.	Assumes container units or existing space.											
Materials Staging Area	50	1	50	-	Area for the off-loading and loading of bulk construction materials.	-	Area only.	-											
Exterior Storage Area	50	1	50	-	Outdoor storage of material and products.	-	Area only.	Weatherproof area for large and bulk materials.											
Vehicle Staging	90	1	90	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	-	Area only.	Service, Repair & Specialty vehicles.											
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.											P
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.	-											P
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.											P
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.											
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-	-											

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Venue Management																			
Venue Operations Centre (VOC)	60	1	60	90	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Dependent upon venue capacity and venue layout.										P	
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-											
Assigned Desks	20	1	20	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Space and Storage	18	1	18	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	40	1	40	50	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.										P	
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	24	1	24	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	8-10 people.											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	150	1	150	180	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre.	Enclosed space.	Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.										P	
Workforce																			
Workforce Area	150	1	150	180	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.										P	
Check-In Area	96	1	96	-	Area to log-in venue staff and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Area	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	335	1	335	400	The space where workforce meals are served and where workforce can break during their shift.	A location that will provide easy access to all workforce for breaks and meals; will vary according to venue layout/size.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon venue workforce numbers.										P	
END OF DOCUMENT																			

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Accreditation																							
Venue Accreditation Office	60	1	60	150	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space. Enclosed space. Required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.											P	-			
Day Pass Issue & Problem Resolution Desk	18	1	18	-																			
Work Area	18	1	18	-																			
Manager Desk or Office & Storage	12	1	12	-																			
Waiting Area	12	1	12	-																			
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	-	-	Located in temporary structure. Assumes container/trailer unit or tent.											P	-			
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.															
Broadcast																							
Broadcast Compound	-	1	-	4000	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements. Gross area includes snow removal access.											R	IOC			
Broadcast Management Office	-	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Assumes container unit.												G	IOC		
Broadcast Manager Office	12	1	-	-		-	-	-	-														
Work Room, Assigned and Unassigned Desks	48	1	-	-		-	-	-	-														
Technical Operations Centre	60	1	60	150	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.												R	IOC		
Broadcast Catering	175	1	175	220	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	-															
Kitchen and Prep	25	1	25	-		-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.														
Buffet Line and Dining	150	1	150	-		-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.														
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements.															
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-															
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters.															
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-															
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.															
Toilets	1.5	12	18	54	Toilet units designated for broadcast personnel.	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.															
Commentator Control Room (CCR)	55	1	55	65	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in close proximity to commentator position area.	Enclosed space with incoming television cable.	Assumes existing space or container unit.												R	IOC		
Broadcast Information Office (BIO)	25	1	25	30	Space for broadcast management and team meetings.	Located near commentator positions and CCR	Enclosed space.	Assumes existing space or container unit.												R	IOC		
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-												G	IOC		
Pre & Post Competition Interview Area	9	1	9	9	An area for rights holders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J									R	IOC		
Mixed Zone	20 linear mtrs.	1	20 linear mtrs.	170	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Adjacent to the FOP.	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I	I	J									R	IOC, IF		
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in seating areas with view to FOP and covered when possible.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Outdoor commentator positions should have the option of cover for protection from various weather conditions (e.g. sun, rain). Space for commentator positions may vary according to actual venue/permanent seating setup.												R	IOC		

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Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	Located at the rear of the commentator grouping so as not to disrupt the FOP view of other commentator positions.	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	A com-cam position equals 2 adjacent commentator positions.			I	J							
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions.	1 position = uses 1 seat in existing seating bowls.	-			I	J						R	IOC
Camera Position - Field of Play	4	Varies	Varies	-	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval. Space for camera positions may vary according to actual venue/permanent seating setup.	J		I	J						R	IOC
Camera Position - Other	4	30	120	270	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	Space for camera positions may vary according to actual venue/permanent seating setup.	I		I	J						R	IOC
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-				J	I		J			G	IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	See also Technology requirements.				J	I		J			G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in Back of House areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.				J	I		J			G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography	J			J	I		J	I		R	IOC
Catering																			
Catering Compound	758	1	758	1100	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity. Gross area includes snow removal access.		I		F						P	
Work Areas - Catering Management	32	1	32	-		-	Enclosed space.	Assumes existing space or container.											
Organising Committee Catering Manager	-	-	-	-		Located in Venue Operations Centre.	See Venue Management - VOC.	-											
Catering Contractor	20	1	20	-		-	-	-											
Beverage Contractor	12	1	12	-	Operational work space(s).	-	-	-											
Dry, Cold and Ice Storage	38	4	152	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.											
Vehicle Staging	50	1	50	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-											
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-											
Kitchen and Preparation Area	54	1	54	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.											
Uncovered Storage	50	1	50	-	Outdoor storage of material and products.	-	Area only.	-											
Toilets	1.5	2	3	-	Toilet units designated for catering personnel. Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	-	Assumes temporary units. Accessible toilets should be provided.											
Hand Wash Station	1	1	1	-		-	Chemical or plumbed unit.	-											
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary). The temporary holding and distribution of potable water in accordance with local health code standards.	Located in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container's). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity and level of catering activity.		I		F						P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	See Look for details.	-		I		F						P	

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Ceremonies																				
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-											P	
Ceremonies Staging	50	1	50	60	For the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule; to coordinate location of podium, procession, and recession route, and location of flagpoles.	Adjacent to or close to FOP.	Consists of coordinator work space with area for anthem storage, secure storage, preparation and dressing area; see below for additional details.	Assumes existing space or container.											P	
Manager Desk	6	1	6	-	Workspace for Manager.	-	-	-												
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenters, Medal/Flower staging, Secure medal and flag storage	36	1	36	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format. Medals storage is not required for those venues where the medal ceremony will take place at another location.												
Presenter Preparation & Dressing	4	2	8	-	A dressing and preparation area for Presenters.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-												
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	Close to FOP.	Limited use, may be shared with other space. See Sport Presentation.	-											P	
Awards Podium Storage	25	1	25	30	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	-											P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.									J	G	R	IOC
Cleaning and Waste																				
Cleaning & Waste Compound	339	1	339	460	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependant upon venue capacity.											P	
Vehicle Staging	90	1	90	-	Parking area for collection vehicles which generally remain inside the venue.	-	Area only.	-												
Sorting Area	90	1	90	-	Area for sorting waste.	-	Area only.	-												
Waste & Recycle Containers	15	6	90	-	Area in front of waste and recycle bins where material is separated for containment.	-	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).												
Compactor Unit	25	Varies	Varies	-	Area in front of waste and recycle bins where material is separated for containment.	-	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.												
Equipment Supply & Storage	15	3	45	-	Space for cleaning equipment and paper product.	-	Enclosed space.	Assumes container unit.												
Contractor Office	24	1	24	-	Space for management and workforce staging.	-	Enclosed space.	-												
Doping Control																				
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	-		J	J	J							R	IOC
Waiting Area/Reception	36	1	36	40	Area where athletes check-in and wait prior to testing.	-	-	-												
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Blood Processing Room(s)	15	Varies	Varies	20 (each)	Area where athlete blood samples are provided and sealed	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer. Wash basin for hand sanitisation.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Office / Storage	12	1	12	15	Work and storage space for Doping Manager.	-	Enclosed space. Secure storage.	-												
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-		I	J	J							R	IOC

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Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.				F						P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of workforce pre-shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large group.	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.				F						P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.				F						P	
Information Desk	-	-	-	-	-	-	-	-											
Lost and Found	-	-	-	-	A holding area for items found in the venue.	-	-	-											
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spectators.	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	-	-	Will depend on level of service at venue.				F						P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes; located between screening/search area and spectator plaza.	Total number generally 50% of security screening positions.				F						P	
Stroller Storage	Varies	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	In close proximity to seating area.	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.				F						P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.				F						P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators				F						P	
Spectator Shade and Shelter	Varies	Varies	Varies	72 (each)	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and spectator service amenities.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.				F						P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-				F						P	
Spectator Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators.	Located in FOH, close proximity to seating and spectator amenities.	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.				F						P	
Hand Wash Stations	1	Varies	Varies	6 (per 20 toilets)	A chemical unit used in the absence of potable water.	Located in FOH, close proximity to seating and spectator amenities.	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.				F						P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Finance																				
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I			F					P		
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Generally located inside venue perimeter and outside venue perimeter.	Area only.	Quantity dependent upon venue capacity.												
Language Services																				
Work Area / Desk	28	1	28	35	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre.	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-			J	J						G	IOC	
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference needs.	-			J	J			I			G	IOC	
Logistics																				
Logistics Compound	-	1	Varies	800	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access. Secondary Compound Area - an additional compound area may be necessary for staging or storage of equipment that is in close proximity to FOP and/or the finish area.										P		
Logistics Centre	75	1	75	-	-	-	Enclosed space.	Assumes container units or tent.												
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-												
Team Staging/Work Area	40	1	40	-	Space for staging and a work area.	-	-	-												
Secure Storage & Equipment Sign-out	20	1	20	-	Area for storage.	-	Storage for tools.	-												
Warehouse Storage	115	1	115	-	Storage area for furniture, fixtures, and equipment (FF&E).	-	Enclosed space.	Assumes tent												
Storage Yard	100	1	100	-	Outside storage area within compound.	-	Area only.	-												
Vehicle Staging	125	1	125	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-												
Fuel Tank(s)	9	Varies	Varies	25 (each)	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.												
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.												
Material Transfer Area (MTA)	-	1	-	750	Generally for deliveries to the venue that may take place after hours or not within the logistics delivery window period.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.					F					P		
X-Ray Area	54	1	54	100	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.												

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Look of the Games																			
Work Area and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.										P	
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J					J		R	IOC
National Olympic Committee (NOC) Flags	-	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition sch	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.			J	J				J		R	IOC
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and back of locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J				J	G	R,P	IOC, IF
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals.	-											
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH).	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.		I	J	J				J	G	R	IOC, L
Backdrop - Press Conference Room	2.2 x 6	1	2.2 x 6	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F			I	I			
Medical Services																			
Athlete Medical	76	1	76	125	An area where Medical provides services to athletes competing at the venue.	Located within the accredited Athlete Area.	Enclosed air-conditioned space.	Assumes container or existing space.	J	J	J					J		R	IF
Reception & Waiting	15	1	15	-	Area where athletes check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	4	32	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Physiotherapy Area(s)	8	2	16	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J					J		R	IF
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.											
Spectator Medical	65	1	65	120	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed air-conditioned space. 1 per 20,000 spectators.	Assumes container unit or existing space.			I	F				I	I	P	
Reception & Waiting	15	1	15	-	Area where spectators check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	15	1	15	-	Space for Medical workforce.	-	-	-											
Examination Area(s)	8	4	32	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Triage Station	50	1	50	100	Additional space to treat minor medical needs of spectators.	Located in the Front of House.	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.			I	F				I	I	P	
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.										P	
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Paved, graveled or grass area with fence, barricade or rope enclosure.	-				F		I	I			P	

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Merchandise																							
Office, Cash Room & Work Area	12	1	12	15	An area to manage the retailing of all Olympic merchandise inside the venue.	-	Enclosed space with secure entry.	Assumes container unit or existing space.													P		
Storage	15	3	15	45		-	-	Assumes storage containers or existing space. Units provided by vendor. Quantity and location decided by vendor and OCOG.														P	
Program Sales Stands/Booths	1	1	1	2		-	Area only.	Gross area is per each P.O.S. and includes service area and queue.														P	
Merchandise Points of Sale (POS)	6	Varies	Varies	18		Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.					I		F							P	
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-					I	J	J					G	R	IOC	
Olympic Family Services																							
Olympic Family Lounge	319	1	319	700	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes tent.				I		I	F					I	G	G	IOC
Welcome Desk & Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-	-															
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.	-															
Staff/Volunteer Room & Storage	16	1	16	-	On-call waiting area for Protocol staff and equipment storage.	-	-	-															
Dining & Lounge	190	1	190	-	Area for dining and lounge.	-	-	-															
Preparation/Buffer set-up/Beverage Area	95	1	95	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Staff/Volunteer, Athlete, Media)	-															
Toilets	40	1	40	80	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	6 female, 6 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided														P	
Protocol flags	-	-	-	-	-	-	See Look of the Games.	-					J	J							J	R	IOC
Press Operations																							
Venue Media Centre (VMC)	800	1	800	1100	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Confer	Close proximity to Press Tribune, Press Conference room, and Mixed Zone area.	Enclosed space for 220 press and 40 photographers.	Assumes tent. Size differences for Olympic and other city venues. Also be aware of men;s final being played in Olympic Stadium														R	IOC
Reception & Information Desk	30	1	30	-	Welcome desk at the entrance, for information distribution.	-	-	-															
Storage	9	1	9	-	Equipment storage.	-	-	-															
Press Manager Office	12	1	12	-	Operational work space.	-	-	-															
Photo Manager Office	12	1	12	-	Operational work space.	-	-	-															
Olympic News Service (ONS) Work Room or Area	45	1	45	-	Operational work space.	-	Enclosed space.	-															
Info Stations	36	1	36	-	Computer stations and printers.	-	-	-															
Press Work Room or Area	344	1	344	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.															
Photo Work Room or Area	75	1	75	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.	-															
Photographers Check-in & Photo Bib Distribution	18	1	18	-	Area where photographers register and receive/return photo bibs.	-	-	-															
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.															
Lounge/Catering Prep	200	1	200	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-	-															
Toilets	1.5	12	18	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided															

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	I	J	F	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Press Conference Room	240	1	240	400	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I				F							R	IOC	
Seating Area	180	1	180	-	An area for accredited press.	-	Seats and standing room.	-														
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3.6 m table, 8 chairs & step and repeat backdrop.	-														
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-														
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-														
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-					F				I	I				
Mixed Zone	25-30	1	25-30	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Under FIFA practice, the press mixed zone is often combined with the press conference area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I					F						R	IOC,IF	
Press Tribune	-	-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	-	Tabled seating is fitted out with telephones, television monitors, power and other press facilities (indoor venues). For outdoor venues, these services will exist in VMC.	-														
Press Tabletop Seating	Varies	Varies	Varies	-	-	Easy access from Venue Media Centre and direct access if possible to Mixed Zone.	In an existing stadium or seating area: 1 seat wide (folding chairs at 60 cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50 cm deep tabletop per position, each position = 2 stadium seats. <u>Temporary Stands:</u> 1 seat (folding chairs at 60 cm spacing) x 2 rows deep of proposed seating system (normally 150 cm-170 cm deep).	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.												R	IOC,IF	
Press Seating (non-tabled)	Varies	Varies	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.													R	IOC,IF
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided														
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-														
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	In close proximity to FOP.	Approx. 120 photographers expected at peak finals periods. 60cm wide x 90cm deep per position, multi-row areas require 60cm riser per row.	Power, Wireless and data cabling needed to photo positions on FOP.	J												R	IOC, IF
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Normal seating areas.	-	Seating areas are generally not applicable for outdoor venues.	I					F							G	IOC
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-														

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Security																			
Security Command Centre	150	1	150	180	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.											
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-											
Security Work Area	15	1	15	-	An area for additional security agencies.	-	-	-											
CCTV Surveillance & Video Desk	18	1	18	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-											
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.											
Radio Dispatch & Monitoring	18	1	18	-	An area for the monitoring and control of security communication and the distribution/return of radios.	-	-	-											
Work Room	60	1	60	-	Open plan of work stations designated for security personnel.	-	-	-											
Secure Storage	12	1	12	-	An area for Security equipment storage.	-	Enclosed, secure space.	-											
Dog Cage(s)	4	Varies	Varies	8 (each)	Holding area for security dogs.	-	Area only for enclosed portable units (e.g. cages).	Dependent upon Host City/Country / Risk Assessment.											
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-											
Briefing and Break Area / Staging Area	220	1	220	250	Area for briefing staff before and after shifts.	-	Enclosed space.	Assumes tent.											
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.											
Vehicle Screening & Sanitisation Area	880	1	880	1100	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.											
Vehicle Queue	300	1	300	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-											
Oversized Vehicle Queue	210	1	210	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-											
Vehicle Sanitisation & Wanding Areas	250	1	250	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.											
Oversized Vehicle (Truck & Bus) Sanitisation	70	1	70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-											
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.											
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Enclosed space for staging and break.	-											
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the venue secure perimeter and/or venue screening area for constituents.	-	Dependent upon spectator capacity and venue design.											
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-											
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-											
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-											
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.											
Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the venue secure perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.											

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the venue secure perimeter.	Enclosed space for screening/search area positions.. Net area for each screening position will accommodate the following: 4 Wanding Stations, OR - 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue. Dependent upon spectator capacity and venue design.											
Athlete / Team	18	1-2	18-36	36-72	-	BOH.	-	-				F						R	IOC
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with Athlete and/or Olympic Family.				F						G	IOC
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with TO, ENG and/or Press.				F						P	
Broadcast	18	1-2	18-36	45-90	-	BOH.	-	If possible, direct access from outside venue perimeter into Broadcast Compound.											
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	BOH; located in close proximity to Venue Broadcast Compound.	-	-											
Press and Photographer	18	1-2	18-36	36-72	-	BOH; located in close proximity to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast).	If possible, direct access from outside venue perimeter into Venue Media Centre.				F	I						
Workforce (Staff/Volunteer/Contractor/Vendor)	18	2-3	36-54	90-135	-	BOH or possibly FOH.	-	-				J	J					P	
Spectator / Sponsors	18	Varies	Varies	54	-	FOH.	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-	I			F						P	
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.				F		I				P	
Exception Gate	Varies	Varies	Varies	-	Access gate for designated accredited personnel.	FOH; located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.				F						P	
X-ray of bags	36	Varies	Varies	72 (each)	Device for screening bags/equipment coming into the venue.	FOH and BOH.	Covered.	-				F	I					P	
Venue Perimeter Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	Dependent upon spectator capacity and venue design.											
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	1m to 3m width, sometimes used as a secondary service vehicle exit point.	-											
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m each, number varies per concourse design.	-											
Workforce (Staff/Volunteer/Contractor/Vendor)	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	Size dependant upon total workforce numbers.				I	F				G	P	
Sponsor Services																			
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.				I	F					P	

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Sport Operations																			
Competition Management	75	1	75	115	A work area for Sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located close to Athlete Area and FOP; may be co-located within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space.	I			F						P	
Competition Manager & Asst. Manager Desks	12	1	12	-	An area for the Manager and Assistant(s) Manager.	-	-	-											
Assigned Work Area	24	1	24	-	Open plan of work stations designated for Sport personnel.	-	-	-											
Hot Desks	15	1	15	-	Shared work stations.	-	-	-											
Work Area	24	1	24	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-											
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-											
IF Offices	-	-	-	-	Work space in the venue for IF operations. Reception, Secretariat, waiting and work area for IF personnel.	-	See International Federation.	-											
Sport Information	20	1	20	25	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located in Athlete Area.	Enclosed space.	Includes: information boards, pigeon holes, Info & Help Desk, work area, info terminal stations & storage.	J		J							R	IF
Athlete Dressing, Locker, Shower, Toilet	25	4	100	120	Change-room facilities to accommodate athletes at the venue during competition and training.	Located in Athlete Area.	Enclosed space. Male and female facilities.	Assumes container units or existing space. Accommodates athletes during double-headers. Area required for sports equipment storage.	J		J							R	IF
IF & Sport Meeting Room	30	1	30	45	Meeting facility at the venue for the International Federation and Competition Management.	Located in close proximity to the IF Area and Competition Management area.	Enclosed space.	Shared meeting room area between IF & Sport to serve various meeting needs.	J		J							G	IF
Sport Equipment Storage	40	1	40	50	Storage for athlete/team sport equipment.	Located within Athlete locker room areas.	-	-	J		J	I						R	IF
FOP Equipment Storage	-	-	-	-	Storage of equipment required for competition.	Located adjacent to FOP or within close proximity.	Area only for extra goals.	-	I		F	I						R	IF
FOP Maintenance Equipment Storage	-	-	-	-	Storage for maintenance equipment storage (groundskeepers equipment for pitch).	Located adjacent to FOP or within close proximity.	Enclosed space.	-	I		F	I						R	IF
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	Reference should be made to FIFA guidelines for all FOP technical requirements.	-											
Playing Surface Dimensions or Area	105 x 68	1	7140	-	-	-	105 x 68 metres.	-	F		I							R	IF
Surface	-	-	-	-	-	-	Natural Grass.	-	J		J	I						R	IF
Sports Lighting - Technical	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											
Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	-	-	-											
Warm-up Surface Dimensions or Area	105 x 68	1	7140	-	-	FOP and/or secondary location.	Warm up location is behind goal; generally teams will warm-up on FOP prior to match (pre-game).	Teams use FOP area for pre-game warm-ups. If use of FOP is unavailable, a secondary warm-up pitch will be required.	J		J							R	IF
Surface	-	-	-	-	-	-	Natural Grass.	-	J		J	I						R	IF
Athlete / Team Seating	-	-	-	-	A designated seating area for athletes.	-	-	-	J		I	J							
Same Sport	-	Varies	-	-	-	-	-	-	J		I	J						R	IOC,IF
Different Sport	-	Varies	-	-	-	-	-	-	I		I	F						R	IOC
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	May be required for Sport Staff use. Quantity varies according to athlete numbers.					F					P	
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	Required if FOP is not located near Athlete area.	Assumes temporary units. Quantity varies according to athlete numbers.					F					P	
International Federation																			
IF Offices	30	1	30	35	Work space in the venue for IF operations. Reception, Secretariat, waiting and work area for IF personnel.	All FIFA offices are located at FIFA hotel in city location.	Enclosed space.	Assumes container units or existing space.	J		J							G	IF
Officials Room	25	1	25	30	Lounge and dressing room for technical officials.	-	Enclosed space for dressing room and lounge.	Assumes container units or existing space.	J		J							G	IF
Technical Delegates Office & Work Area	15	1	15	20	Office area for Technical Delegates.	-	Enclosed space. 2 Technical Delegates.	-	I		I	F						R	IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I		J	J						R	IOC,IF
Sport Presentation																			
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.											
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-				F						P	
Announcer Position	3	1	3	-	-	-	-	-				F						P	
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space, consisting of work area, green room, entertainer staging and dressing and prop storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.				F						P	

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Technology Operations																			
Technology Help Desk	20	1	20	25	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support staff & manager.	-										P	
Venue Technology Operations (VTO)	25	1	25	32	OCOG Technology Operations area. Operational work space for entire Venue Technology team, including Partners & contractors.	Adjacent to or within Venue Operations Centre (VOC).	Medium security - lockable room. Air-conditioned as office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	-				F					G	P	
OCOG Venue Technology Work Area	-	1	-	-	Work space for Venue Technology Manager, Assistant Venue Technology Manager, Technology Workforce Manager and associated volunteer(s).	-	-	Work space size may be dependent upon workforce per shift.											
AV Contractor Work Area	-	1	-	-	Work space for AV contractors/Technicians.	-	-	Work space size may be dependent upon workforce per shift.											
IT Provider Work Area	-	1	-	-	Work space for IT workforce and "home base" for IT volunteers.	-	-	Work space size may be dependent upon workforce per shift.											
Reprographic Provider Work Area	-	1	-	-	Work space for reprographic contractors/technicians	-	-	Work space size may be dependent upon workforce per shift.											
Mobile Phone Provider Work Area	-	1	-	-	Workspace for mobile phone provider.	-	-	Work space size may be dependent upon workforce per shift. Charging area for Venue Operations workforce phones may be required.											
Wired Communications Provider Work Area	-	1	-	-	Work space for Wired Communications contractors/technicians.	-	-	Work space size may be dependent upon workforce per shift.											
Timing & Scoring/OVR Provider Work Area	-	1	-	-	Work space for OVR/Timing & Scoring contractors/technicians.	-	-	May not be required if adequate working space is allocated in OVR room.											
Radio Distribution Room (RDR)	15	1	15	18	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E and workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).				F						P	
Information Technology																			
Computer Equipment Room (CER)	20	1	20	25	Location for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.				F					G	P	
Data Local Area Network (LAN) Management Room & Store	25	1	25	32	LAN monitoring room & associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational staff & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces.				F					G	P	

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Telecommunication & Audio Visual																				
Telecomm. Equipment Room (TER) Primary	36	1	36	45	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	Raised flooring is preferable for cabling distribution, but not essential.		I		F							P	
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.		I		F							P	
Telecomm. Operations & Store	25	1	25	32	Operational space for Telecommunications technical staff and associated storage for spare parts.	Adjacent to TER.	As TER with adequate FF&E to support operational staff & storage.	If located adjacent to TER, power supply boards, UPS units & A/C services can be common for both spaces.		I		F							P	
Audio Control Positions	-	-	-	-	-	-	-	-				F						G	P	
Venue - Preliminaries Arena	4	1	4	8	Area within Sport Production, location for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Production. Can be on FOP, in stands or in a booth with view to FOP.	High Security. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	Storage for country anthems.												
Press Conference	2	0	2	4	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), air-conditioned, waterproof. Work space & FF&E for operator.	-												
Warm-Up Area	0	0	0	-	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Within Warm-up area for Athletes.	Standard/mains power & FF&E.	-												
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-												
Workforce Break/Dining	2	Varies	Varies	-	Area within Staff Break/Training room where audio control equipment is installed to facilitate meetings/training of large numbers of staff.	Workforce break/dining areas.	Standard/mains power & FF&E.	-												
Video Board Control	0	0	0	-	Location of video control for video board or video projection system. Operations integral with those of Sport Production.	Ideally with Sport Production View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	Requirement based on deployment of Videoboard to ATH (mobile board).				F						G	P	
Wired Communications Control	2	1	2	4	Location of wired communications master control station and support technician. System essential to operations of both Sport Production and Results/FOP management.	Near to or within Sport Production is preferable. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location is located outdoors. Good cable access to FOP, OVR Room, Sport Production, Broadcast Graphics Room & Results Printing required. Workspace & FF&E for one technician, control equipment, spare parts and containers/boxes for equipment.	Two systems may be required if one cannot sufficiently provided communications for both Preliminaries and Finals.				F						G	P	
Temporary PA equipment Room	2 min	1	2 min	4 min.	Temporary location for installation of PA active equipment (amplifiers etc) for venue PA system.	In existing PA equipment room, if applicable. May be located under venue seating/tribunes if existing room not available.	High Security. Fully redundant power (mains & standby generator) to equipment. Good cable access to speaker location and PA/Audio Control position required. Equipment installed in racks. Each rack set is 1000H x 600W x 600 D maximum.	Number of racks will depend on size of system deployed. Generally venues with large geographic area (outdoor) require larger installation and therefore more racks of amplifier equipment. Two areas may be required if one cannot sufficiently provided space for equipment supporting both Preliminaries and Finals.				F							P	

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Timing, Scoring and Results Operations																			
Results Data Entry Position	-	-	-	-	Location(s) for event results and/or statistics data entry during competition.	As noted below.	High Security. Fully redundant power (mains & generator) with UPS to all results data entry equipment/workstations. Space & FF&E for all data entry personnel & results management staff.	Adequate weather (rain/sun) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
Statistics Room	5	1	5	10	Room/location for statistics calling & data entry into OVR system.	Adjacent/near OVR Room. Location must have view to FOP with sport statisticians.	-	May occur as a position on the FOP, or in a room with a view to the FOP.											
Timing and Scoring Position	-	-	-	-	Location(s) for event timing & scoring personnel & equipment during competition.	Sport Specific. However, all locations must have view to FOP	High Security Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards & OVR room. Space & FF&E for operators and equipment. Adequate weather (rain/sun) protection for equipment/workstations to be provided.	-	I	I	I	F						R	IF, Swatch
Field of Play (FOP)	0	0	0	-	-	-	-	-											
Control Room	0	0	0	-	-	-	-	-											
On Venue Results (OVR)	-	-	-	-	Location is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	Easy access to FOP critical for technical and results staff.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Space & FF&E required for high density of computer workstations, racks for servers and working space for technicians, operators and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or venues where two sports occur concurrently will require more space for additional OVR equipment.	I	F								P	
OVR Provider Work Area	20	1	20	25	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO/CIS/PRD etc).	Ideally adjacent to IT provider work area.	-	-											
IT Provider Work Area	18	1	18	23	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-											
Scoreboard Control	-	-	-	-	Location of scoreboard control operations. Operations integral with those of Sport Production, data provided from OVR System. Space for both Control and Interface workstations & 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Space & FF&E required for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.	I	F							G	P	
Scoreboard Control	2	1	2	4	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator & workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-											
Scoreboard Interface	2	1	2	4	Area for interface equipment (PC workstations) linking OVR system & Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-											

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Results Printing (PRD)	60	1	60	75	Location for hard copy results production & distribution. Location of high intensity work involving many staff preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area & position for the Print Distribution Workstation (IDS interface) equipment and operator.	Near/adjacent to Press Workroom, access to Press Tribunes, Broadcast Commentary Positions, Sport Information Desk, Doping & Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specification. Space & FF&E required for equipment and operational staff as well as space for 1 x pallet of paper to support print/copy operations.	-	I	I	F							R	IF, Swatch
TV Graphics Interface	3	1	3	6	Location where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operators & good cable access to OVR room.	-				I		F			G	P	
Technology Storage																			
Technology General Storage	15	1	15	18	Location for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.						F				G	P
IT Bulk Storage	30	1	30	38	Storage area for all spare IT equipment & associated boxes/containers.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to IT provider at all times.						F				G	P
Reprographic Primary Storage Area	12	1	12	15	Primary storage/technical area in-venue for reprographic provider. Storage for spare parts, additional devices and consumables serving primarily Results Printing Operations.	In venue location adjacent to, or within Results Printing Room.	High Security - lockable. Standard office environment with standard power. Workspace & FF&E for one technician.	-	I		F							G	P
Reprographic Bulk Storage Area	15	1	15	18	Storage area for bulk paper allocated to venue (multiple pallets).	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of paper required to support venue operations.						F				G	P
Timing and Scoring Workshop	10	1	10	13	In venue storage & workshop for timing equipment, spare parts & small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.	-	I		F							G	P
Timing & Scoring Bulk Store	20	1	20	25	Storage area for large crates & containers used for scoreboards and bulk equipment. Must be accessible to OVR provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of Timing & Scoring equipment deployed to venue. May be combined with Timing & Scoring Workshop if location & size of space meet requirements for venue.	I		F							G	P
Audio Visual Bulk Store	15	1	15	18	Storage area for large crates & containers used for video boards, PA equipment & TV boxes. Must be accessible to Video/Public address provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of audio/video equipment deployed to venue.						F				G	P
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closet. CCFs are to be installed in locations that allow for easy access for service technicians and which allow for easy cable access both from TER room and to user device locations.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Work Room.	High Security - lockable and weatherproof. May require fan or dedicated A/C depending on room location and/or configuration. Fully redundant power (mains and generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.	I		F								P
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of power from data/voice and audio-visual cabling.	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in a manner which allows for easy access and repair/replacement. Legacy installations are to be installed as permanent while temporary (overlay) should be installed using methods which are easily installed and removed minimising potential damage to existing venue.						F					P
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.	-	-	-											
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.	-	-	-											
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.	-	-	-											
CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	-											

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Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	-											
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-											
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-											
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-											
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-											
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-											
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing and Scoring/OVR contractor.		I		F						P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cablings) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.											
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.		I		F						P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the videoboard. Required for outdoor venues where the videoboards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cablings) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each videoboard.											
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Production on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.		I		F					G	P	
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to/from audio/PA amplification system and/or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cablings) required to suspend PA speakers from venue ceiling structure.	-	-	-											
Mobile Phone Infrastructure (antenna)	-	Varies	-	-	Infrastructure required to support installation of additional radio antenna & mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to/from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.		I		F					G	P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Ticketing																			
Ticket Box Office	50	1	50	125	An area at the venue where Olympic tickets are sold.	Adjacent to the secure perimeter; near the spectator entry point of the venue	Gross area includes internal & external queue.	Assumes container unit with disabled access to internal and external service window. Dependant upon venue layout and footprint, spectator access point locations.										P	
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	20	1	20	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s)	20	1	20	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	25	1	25	50	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.										P	
Driver Staging	110	1	110	200	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.										P	
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside venue secure perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	30	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-										P	
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from Host City, based on vehicle/bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J							P	
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J							P	
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F						P	
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.				F						G	IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.				F						G	IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.	I		F							G	IOC
Spectator and Staff Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				F						P	
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.	I		F							P	
Accessible	-	-	-	-	-	-	-	Part of Spectator total.				F						P	
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Surface areas paved or gravel.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have drop-off in close proximity to accredited entry point and then driver will park.			I	F						P	
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.				F			I			P	
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.				F			I			P	
Press and Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-			J	J						P	
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes vehicle circulation.				F			I			P	
Emergency Services	-	-	-	50 (each)	-	Generally located inside the Secure Venue Perimeter.	-	Includes vehicle circulation.				F			I			P	

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Venue Development																			
Site Management Compound	693	1	693	900	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Dependent upon venue footprint, extent of temporary works and number of contractors.											P
Site Management Area	75	1	75	-	-	-	Enclosed space.	-											
Site Manager & Assistant Site Manager(s) Work Area	12	1	12	-	Work and meeting area for the Site Manager and Assistant Site Manager.	-	-	-											
Site Administration Desk & Work Area	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-	-											
Response Team & Vendor Staging	30	1	30	-	On-site permanent and temporary facilities for specialty staff and general labor crew to be on-call.	-	-	-											
Secure Storage - Site Management	15	1	15	-	Area for storage.	-	-	-											
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.	-	Enclosed space. Area for office, staging and a secure storage area.	Assumes container units or existing space. Contractor usually installs container units at their own cost.											
Sign/Look Staging, Work Space/Secure Storage	60	1	60	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	-	Assumes container unit or existing space.											
Material Warehouse/Construction Work Space	115	1	115	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	-	Enclosed space.	Assumes tent or canopy with 2 side walls. Area for carpentry, painting and general construction. Storage for non-weather proof materials.											
Vendor Secure Storage	90	1	90	-	Area for containers, usually provided by the various temporary construction sub-contractors.	-	Enclosed space.	Assumes container units or existing space.											
Materials Staging Area	70	1	70	-	Area for the off-loading and loading of bulk construction materials.	-	Area only.	-											
Exterior Storage Area	70	1	70	-	Outdoor storage of material and products.	-	Area only.	Weatherproof area for large and bulk materials.											
Vehicle Staging	150	1	150	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	-	Area only.	Service, Repair & Specialty vehicles.											
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.											P
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.	-											P
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.											P
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.											
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-	-											

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Venue Management																				
Venue Operations Centre (VOC)	75	1	75	115	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Dependent upon venue capacity and venue layout.										P		
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-												
Assigned Desks	24	1	24	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.												
Hot Desks	15	1	15	-	Shared work stations.	-	-	-												
Work Space and Storage	24	1	24	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.												
Venue Communication Centre (VCC)	50	1	50	60	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.										P		
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-												
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-												
Communication Operators (VCC Operators)	30	1	30	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	8-10 people.												
Storage	8	1	8	-	Equipment storage area.	-	-	-												
Multi-purpose Room (MPR)	200	1	200	240	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre.	Enclosed space.	Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.										P		
Workforce																				
Workforce Area	180	1	180	220	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.										P		
Check-In Area	115	1	115	-	Area to log-in venue staff and contractors by day or shift.	-	Check-in desks.	-												
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-												
Information Desk, Lost & Found & Work Area	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-												
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-												
Workforce Break & Dining Area	500	1	500	600	The space where workforce meals are served and where workforce can break during their shift.	A location that will provide easy access to all workforce for breaks and meals; will vary according to venue layout/size.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon venue workforce numbers.										P		
END OF DOCUMENT																				

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation					
Accreditation																								
Venue Accreditation Office	60	1	60	150	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.										S	P	-				
Day Pass Issue & Problem Resolution Desk	18	1	18	-																				
Work Area	18	1	18	-																				
Manager Desk or Office & Storage	12	1	12	-																				
Waiting Area	12	1	12	-																				
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	-	Enclosed space. Required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.					F					P	-					
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.							F									
Broadcast																								
Broadcast Compound	-	1	-	8000	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements.																
Broadcast Management Office	70	1	70	175	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Gross area includes snow removal access. Assumes container unit.					J		J			R	IOC					
Broadcast Manager Office	12	1	12	-		-	-	-	-					I		F			G	IOC				
Work Room, Assigned and Unassigned Desks	58	1	58	-		-	-	-	-															
Technical Operations Centre	60	1	60	150	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.					I		F			R	IOC					
Broadcast Catering	175	1	175	220	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	-																
Kitchen and Prep	25	1	25	-		-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.															
Buffet Line and Dining	150	1	150	-		-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.															
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements.																
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-																
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters.																
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-																
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.																
Toilets	1.5	12	18	54	Toilet units designated for broadcast personnel.	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Commentator Control Room (CCR)	45	1	45	55	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in close proximity to commentator position area.	Enclosed space with incoming television cable.	Assumes existing space or container unit.					I		F			R	IOC					
Broadcast Information Office (BIO)	25	1	25	30	Space for broadcast management and team meetings.	Located near commentator positions and CCR	Enclosed space.	Assumes existing space or container unit.					J		J			R	IOC					
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-					J		J			G	IOC					
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J		J	J				R	IOC					
Mixed Zone	35	1	35	300	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Adjacent to the FOP.	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I	I	J		J	I				R	IOC, IF					
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in seating areas with view to FOP and covered when possible.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Outdoor commentator positions should have the option of cover for protection from various weather conditions (e.g. sun, rain). Space for commentator positions may vary according to actual venue/permanent seating setup.			I	J		J	I			R	IOC					

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	Located at the rear of the commentator grouping so as not to disrupt the FOP view of other commentator positions.	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	A com-cam position equals 2 adjacent commentator positions.			I	J			J	I			
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions.	1 position = uses 1 seat in existing seating bowls.	-			I	J			J	I		R	IOC
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval. Space for camera positions may vary according to actual venue/permanent seating setup.	J		I	J			J	J		R	IOC
Camera Position - Other	4	55	220	495	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	Space for camera positions may vary according to actual venue/permanent seating setup.	I		I	J			J	I		R	IOC
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-					J	I	J			G	IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	See also Technology requirements.					J	I	J			G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in Back of House areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.					J	I	J			G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography	J			J	I	J	I			R	IOC
Catering																			
Catering Compound	758	1	758	1100	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity.		I		F						P	
Work Areas - Catering Management	32	1	32	-		-	Enclosed space.	Assumes existing space or container.											
Organising Committee Catering Manager	-	-	-	-		Located in Venue Operations Centre.	See Venue Management - VOC.	-											
Catering Contractor	20	1	20	-		-	-	-											
Beverage Contractor	12	1	12	-	Operational work space(s).	-	-	-											
Dry, Cold and Ice Storage	38	4	152	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.											
Vehicle Staging	50	1	50	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-											
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-											
Kitchen and Preparation Area	54	1	54	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.											
Uncovered Storage	50	1	50	-	Outdoor storage of material and products.	-	Area only.	-											
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilets should be provided.											
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit.	-											
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container's). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity and level of catering activity.		I		F						P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	See Look for details.	-		I		F						P	

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Ceremonies																				
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-											P	
Ceremonies Staging	50	1	50	60	For the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule; to coordinate location of podium, procession, and recession route, and location of flagpoles.	Adjacent to or close to FOP.	Consists of coordinator work space with area for anthem storage, secure storage, preparation and dressing area; see below for additional details.	Assumes existing space or container.											P	
Manager Desk	6	1	6	-	Workspace for Manager.	-	-	-												
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenters, Medal/Flower staging, Secure medal and flag storage	36	1	36	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format. Medals storage is not required for those venues where the medal ceremony will take place at another location.												
Presenter Preparation & Dressing	4	2	8	-	A dressing and preparation area for Presenters.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-												
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	Close to FOP.	Limited use, may be shared with other space. See Sport Presentation.	-		I		F							P	
Awards Podium Storage	25	1	25	30	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	-			I	F							P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.	I		J	J				J	G	R	IOC	
Cleaning and Waste																				
Cleaning & Waste Compound	339	1	339	460	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependant upon venue capacity.					F						P	
Vehicle Staging	90	1	90	-	Parking area for collection vehicles which generally remain inside the venue.	-	Area only.	-												
Sorting Area	90	1	90	-	Area for sorting waste.	-	Area only.	-												
Waste & Recycle Containers	15	6	90	-	Area in front of waste and recycle bins where material is separated for containment.	-	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).												
Compactor Unit	25	Varies	Varies	-		-	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.												
Equipment Supply & Storage	15	3	45	-	Space for cleaning equipment and paper product.	-	Enclosed space.	Assumes container unit.												
Contractor Office	24	1	24	-	Space for management and workforce staging.	-	Enclosed space.	-												
Doping Control																				
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	-	J		J	J							R	IOC
Waiting Area/Reception	36	1	36	40	Area where athletes check-in and wait prior to testing.	-	-	-												
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Blood Processing Room(s)	15	Varies	Varies	20 (each)	Area where athlete blood samples are provided and sealed	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Office / Storage	12	1	12	15	Work and storage space for Doping Manager.	-	Enclosed space. Secure storage.	-												
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-	I		J	J							R	IOC

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Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.										P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of workforce pre-shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large group.	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.										P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.										P	
Information Desk	-	-	-	-	-	-	-	-											
Lost and Found	-	-	-	-	A holding area for items found in the venue.	-	-	-											
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spectators.	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	-	-	Will depend on level of service at venue.										P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes; located between screening/search area and spectator plaza.	Total number generally 50% of security screening positions.										P	
Stroller Storage	Varies	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	In close proximity to seating area.	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.										P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.										P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators										P	
Spectator Shade and Shelter	Varies	Varies	Varies	72 (each)	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and spectator service amenities.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.										P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-										P	
Spectator Toilets	1.5	Varies	Varies	5 (each) 6 (per 20 toilets)	Toilet units designated for spectators.	Located in FOH, close proximity to seating and spectator amenities.	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.										P	
Hand Wash Stations	1	Varies	Varies	20	A chemical unit used in the absence of potable water.	Located in FOH, close proximity to seating and spectator amenities.	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.										P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Finance																				
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I			F						P	
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Generally located inside venue perimeter and outside venue perimeter.	Area only.	Quantity dependent upon venue capacity.												
Language Services																				
Work Area / Desk	28	1	28	35	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre.	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-		J	J			I				G	IOC	
Simultaneous Interpretation Booth	2	3	6	18	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference needs.	-		J	J			I				G	IOC	
Logistics																				
Logistics Compound	-	1	Varies	800	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access. Secondary Compound Area - an additional compound area may be necessary for staging or storage of equipment that is in close proximity to FOP and/or the finish area.											P	
Logistics Centre	75	1	75	-	-	-	Enclosed space.	Assumes container units or tent.												
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-												
Team Staging/Work Area	40	1	40	-	Space for staging and a work area.	-	-	-												
Secure Storage & Equipment Sign-out	20	1	20	-	Area for storage.	-	Storage for tools.	-												
Warehouse Storage	115	1	115	-	Storage area for furniture, fixtures, and equipment (FF&E).	-	Enclosed space.	Assumes tent												
Storage Yard	100	1	100	-	Outside storage area within compound.	-	Area only.	-												
Vehicle Staging	125	1	125	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-												
Fuel Tank(s)	9	Varies	Varies	25 (each)	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.												
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.												
Material Transfer Area (MTA)	-	1	-	750	Generally for deliveries to the venue that may take place after hours or not within the logistics delivery window period.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.											P	
X-Ray Area	54	1	54	100	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.												

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Look of the Games																			
Work Area and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.					F					P	
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J					J		R	IOC
National Olympic Committee (NOC) Flags	-	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition sch	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.			J	J				J		R	IOC
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and back of locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J				J	G	R,P	IOC, IF
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals.	-											
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH).	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.		I	J	J				J	G	R	IOC, L
Backdrop - Press Conference Room	2.2 x 6	1	2.2 x 6	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F		I	I				
Medical Services																			
Athlete Medical	76	1	76	125	An area where Medical provides services to athletes competing at the venue.	Located within the accredited Athlete Area.	Enclosed air-conditioned space.	Assumes container or existing space.	J	J	J					J		R	IF
Reception & Waiting	15	1	15	-	Area where athletes check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	4	32	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Physiotherapy Area(s)	8	2	16	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J					J		R	IF
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.											
Spectator Medical	65	1	65	120	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed air-conditioned space. 1 per 20,000 spectators.	Assumes container unit or existing space.		I	F		I	I				P	
Reception & Waiting	15	1	15	-	Area where spectators check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	15	1	15	-	Space for Medical workforce.	-	-	-											
Examination Area(s)	8	4	32	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Triage Station	50	1	50	100	Additional space to treat minor medical needs of spectators.	Located in the Front of House.	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.		I	F		I	I				P	
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.				F	I	I				P	
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Paved, graveled or grass area with fence, barricade or rope enclosure.	-				F	I	I				P	

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Merchandise																							
Office, Cash Room & Work Area	12	1	12	15	An area to manage the retailing of all Olympic merchandise inside the venue.	-	Enclosed space with secure entry.	Assumes container unit or existing space.					F					P					
Storage	15	3	15	45		-	-	Assumes storage containers or existing space.					F						P				
Program Sales Stands/Booths	1	1	1	2		-	Area only.	Units provided by vendor. Quantity and location decided by vendor and OCOG.					F						P				
Merchandise Points of Sale (POS)	6	Varies	Varies	18		Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.	Gross area is per each P.O.S. and includes service area and queue.					I					F	P			
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-					I	J	J			G	R	IOC			
Olympic Family Services																							
Olympic Family Lounge	319	1	319	700	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes tent.					I					I	G	G	IOC		
Welcome Desk & Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-	-															
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.	-															
Staff/Volunteer Room & Storage	16	1	16	-	On-call waiting area for Protocol staff and equipment storage.	-	-	-															
Dining & Lounge	190	1	190	-	Area for dining and lounge.	-	-	-															
Preparation/Buffer set-up/Beverage Area	95	1	95	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Staff/Volunteer, Athlete, Media)	-															
Toilets	40	1	40	80	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	6 female, 6 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided											F	P			
Protocol flags	-	-	-	-	-	-	See Look of the Games.	-											J	J	J	R	IOC
Press Operations																							
Venue Media Centre (VMC)	1100	1	1100	1400	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Confer	Close proximity to Press Tribune, Press Conference room, and Mixed Zone area.	Enclosed space for 300 press and 60 photographers.	Assumes tent.											F	R	IOC		
Reception & Information Desk	30	1	30	-	Welcome desk at the entrance, for information distribution.	-	-	-															
Storage	9	1	9	-	Equipment storage.	-	-	-															
Press Manager Office	12	1	12	-	Operational work space.	-	-	-															
Photo Manager Office	12	1	12	-	Operational work space.	-	-	-															
Olympic News Service (ONS) Work Room or Area	45	1	45	-	Operational work space.	-	Enclosed space.	-															
Info Stations	36	1	36	-	Computer stations and printers.	-	-	-															
Press Work Room or Area	450	1	450	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.															
Photo Work Room or Area	125	1	125	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.	-															
Photographers Check-in & Photo Bib Distribution	18	1	18	-	Area where photographers register and receive/return photo bibs.	-	-	-															
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.															
Lounge/Catering Prep	300	1	300	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-	-															
Toilets	1.5	12	18	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided															

GYMNASTICS Artistic / Trampoline

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	I	J	F	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Press Conference Room	240	1	240	400	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. Use for Team Delegation Orientation by FIG/International Federation. May be used by press staff for meetings between press conferences.	I		F						R	IOC	
Seating Area	180	1	180	-	An area for accredited press.	-	Seats and standing room.	-											
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3.6 m table, 8 chairs & step and repeat backdrop.	-											
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-											
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-											
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-				F		I	I				
Mixed Zone	20-25 linear mtrs.	1	20-25 linear mtrs.	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I	I	F						R	IOC,IF	
Press Tribune	-	-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	-	Tabled seating is fitted out with telephones, television monitors, power and other press facilities (indoor venues). For outdoor venues, these services will exist in VMC.	-											
Press Tabletop Seating	Varies	Varies	Varies	-	-	Easy access from Venue Media Centre and direct access if possible to Mixed Zone.	In an existing stadium or seating area: 1 seat wide (folding chairs at 60 cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50 cm deep tabletop per position, each position = 2 stadium seats. Temporary Stands: 1 seat (folding chairs at 60 cm spacing) x 2 rows deep of proposed seating system (normally 150 cm-170 cm deep).	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.			I	F					R	IOC,IF	
Press Seating (non-tabled)	Varies	Varies	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.			I	F						R	IOC,IF
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided											
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-											
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	In close proximity to FOP.	Approx. 180 photographers expected at peak finals periods. 60cm wide x 90cm deep per position, multi-row areas require 60cm riser per row.	Power, Wireless and data cabling needed to photo positions on FOP.	J	I	J							R	IOC, IF
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Normal seating areas.	-	Seating areas are generally not applicable for outdoor venues.	I	I	F							G	IOC
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Security																				
Security Command Centre	150	1	150	180	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.										P		
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-												
Security Work Area	15	1	15	-	An area for additional security agencies.	-	-	-												
CCTV Surveillance & Video Desk	18	1	18	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-												
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.												
Radio Dispatch & Monitoring	18	1	18	-	An area for the monitoring and control of security communication and the distribution/return of radios.	-	-	-												
Work Room	60	1	60	-	Open plan of work stations designated for security personnel.	-	-	-												
Secure Storage	12	1	12	-	An area for Security equipment storage.	-	Enclosed, secure space.	-												
Dog Cage(s)	4	Varies	Varies	8 (each)	Holding area for security dogs.	-	Area only for enclosed portable units (e.g. cages).	Dependent upon Host City/Country / Risk Assessment.							F					
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-											P	
Briefing and Break Area / Staging Area	220	1	220	250	Area for briefing staff before and after shifts.	-	Enclosed space.	Assumes tent.					J	J						
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.					J	J					P	
Vehicle Screening & Sanitisation Area	880	1	880	1100	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.							I	F			P	
Vehicle Queue	300	1	300	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-												
Oversized Vehicle Queue	210	1	210	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-												
Vehicle Sanitisation & Wanding Areas	250	1	250	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.												
Oversized Vehicle (Truck & Bus) Sanitisation	70	1	70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-												
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.												
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Enclosed space for staging and break.	-												
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the venue secure perimeter and/or venue screening area for constituents.	-	Dependent upon spectator capacity and venue design.							F			G	P	
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-												
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-	I		F								P	
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-	I		F								P	
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.	I	I	F								P	

GYMNASTICS Artistic / Trampoline

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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the venue secure perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.										R	IOC
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the venue secure perimeter.	Enclosed space for screening/search area positions.. Net area for each screening position will accommodate the following: 4 Wanding Stations, OR 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue. Dependent upon spectator capacity and venue design.											
Athlete / Team	18	1-2	18-36	36-72	-	BOH.	-	-				F						R	IOC
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with Athlete and/or Olympic Family.				F						G	IOC
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with TO, ENG and/or Press.				F						P	
Broadcast	18	1-2	18-36	45-90	-	BOH.	-	If possible, direct access from outside venue perimeter into Broadcast Compound.											
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	BOH; located in close proximity to Venue Broadcast Compound.	-	-											
Press and Photographer	18	1-2	18-36	36-72	-	BOH; located in close proximity to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast).	If possible, direct access from outside venue perimeter into Venue Media Centre.				F	I						
Workforce (Staff/Volunteer/Contractor/Vendor)	18	2-3	36-54	90-135	-	BOH or possibly FOH.	-	-				J	J					P	
Spectator / Sponsors	18	Varies	Varies	54	-	FOH.	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-	I			F							P
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.				F		I					P
Exception Gate	Varies	Varies	Varies	-	Access gate for designated accredited personnel.	FOH; located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.				F							P
X-ray of bags	36	Varies	Varies	72 (each)	Device for screening bags/equipment coming into the venue.	FOH and BOH.	Covered.	-				F	I						P
Venue Perimeter Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	Dependent upon spectator capacity and venue design.											
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	1m to 3m width, sometimes used as a secondary service vehicle exit point.	-											
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m each, number varies per concourse design.	-											
Workforce (Staff/Volunteer/Contractor/Vendor)	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	Size dependant upon total workforce numbers.				I	F				G	P	
Sponsor Services																			
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.				I	F						P

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Sport Operations																				
Competition Management	75	1	75	115	A work area for Sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located close to Athlete Area and field of play; may be co-located within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space.	I				F					P		
Competition Manager & Asst. Manager Desks	12	1	12	-	An area for the Manager and Assistant(s) Manager.	-	-	-												
Assigned Work Area	24	1	24	-	Open plan of work stations designated for Sport personnel.	-	-	-												
Hot Desks	15	1	15	-	Shared work stations.	-	-	-												
Work Area	24	1	24	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-												
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-												
Sport Information	30	1	30	45	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located in Athlete Area.	Enclosed space with waiting area and seating.	Includes: information boards, pigeon holes, Info & Help Desk, work area, info terminal stations & storage.	J			J						R	IF	
Athlete Lounge	80	1	80	120	An area where athletes can relax at the venue while not training or competing.	Located in Athlete Area.	-	Includes: seating area, lounge, Info & Help Desk, info terminal stations. If access permits, use by team coaches, team leaders and team officials.	J			J						R	IF	
Athlete Dressing, Locker, Shower, Toilet	15	12	180	300	Change-room facilities to accommodate athletes at the venue during competition and training.	Located in Athlete Area.	Enclose space. Separate male and female change-rooms required.	Shared facilities maybe possible if competition times do not overlap when disciplines or sports share venues. Showers not a requirement.	J			J						R	IF	
Massage Area	15	Varies	Varies	20 (each)	Area for athlete massage.	Located in Athlete Area.	Enclosed space.	Quantity will vary according to venue layout (all disciplines under 1 roof), and athlete numbers.	I			F	I					P	IF	
IF & Sport Meeting Room	30	1	30	45	Meeting facility at the venue for the International Federation and Competition Management.	Located in close proximity to the IF Area and Competition Management area.	Enclosed space.	Shared meeting room area between IF & Sport to serve various meeting needs.	J			J						G	IF	
Team Delegation Orientation Meeting Room	-	-	-	-	A meeting area for orientation of teams prior to the start of the competition.	Located in Press Conference Room.	Use of Press Conference area for team delegations orientation meeting(s) prior to start of competition for Artistic, Trampoline and Rhythmic.	-	J			J							R	IF
FOP Equipment Storage	100	1	100	130	Storage of equipment required for competition and other field of play set-up/maintenance items (e.g. mats, foam, etc.)	Located adjacent to FOP or within close proximity.	-	-	F			I			I			R	IF	
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	Reference should be made to FIG guidelines for all FOP technical requirements.	-	J			J	I						R	IF
Playing Surface Dimensions or Area	40 x 70	1	2800	-	-	-	Area per FIG requirements.	-	J			J	I						R	IF
Vertical Height Requirement	12m	1	12m	-	-	-	12 metres minimum vertical height requirement above area.	If Rhythmic in the same venue, airconditioning or ventilation systems cannot affect the ribbons.	F			I			I				R	IOC, IF
Surface	-	-	-	-	-	-	Carpet. Podium as per FIG Apparatus Norms. Apparatus must be anchored. Trampoline: large and thick mats placed on both sides of the trampoline but also on the floor. See FIG Apparatus Norms.	If Rhythmic in the same venue as Artistic and Trampoline, surface requirements are a mat with special wooden underlay and special security borders around it. See FIG Requirements for Rhythmic.												
Camera Positions - IF/Team, Biomechanics	3.5	3	10.5	-	-	-	1 Team/IF per apparatus. 1-2 biomechanics per apparatus.	Positions to be approved by FIG.	J			J			I	J			R	IF
Sports Lighting - Technical	-	-	-	-	-	-	See Broadcast for lighting specifications.	-												

GYMNASTICS Artistic / Trampoline

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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	-	-	-	J									R	IF	
Warm-up Surface Dimensions or Area	35 x 60	Varies	2100	-	-	Adjacent to Competition Hall.	Area per FIG requirements.	If all disciplines in one venue, 3 warm-up halls for each discipline are required: Artistic, Rhythmic, Trampoline If Rhythmic is located in separate venue, only 2 warm-up halls are required for Artistic and Trampoline.	I			F	I					R	IF	
Vertical Height Requirement	12m	1	12m	-	-	-	12 metres minimum vertical height requirement above area.	-												
Surface	-	-	-	-	-	-	Per FIG Requirements.	-												
Athlete / Team Seating	-	-	-	-	A designated seating area for athletes.	-	-	-	J	I	J									
Same Sport	-	Varies	-	-	-	-	-	-	J	I	J							R	IOC,IF	
Different Sport	-	Varies	-	-	-	-	-	-	I	I	F							R	IOC	
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	May be required for Sport Staff use. Quantity varies according to athlete numbers.				F						P		
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	Required if FOP is not located near Athlete area.	Assumes temporary units. Quantity varies according to athlete numbers.				F						P		
International Federation																				
IF Area	70	1	70	85	An area or central location in the venue for IF operations.	Located in close proximity to accredited seating areas.	Enclosed space.	Assumes container units or existing space.	I	I	F							R	IF	
IF President's Office	15	1	15	-	-	-	-	-	I	I	F							R	IF	
IF Secretary - General/Executive Director's Office	15	1	15	-	-	-	-	-	I	I	F							G	IF	
Reception, Secretariat, Waiting & Work Area	40	1	40	-	-	-	-	-	I	I	F							G	IF	
Executive Committee Area	60	1	60	70	An area for executive committee members throughout the competition period.	Located in accredited seating area.	Enclosed space.	-	I		F							R	IF	
Executive Committee Meeting Area	20	1	20																	
Executive Committee Office	40	1	40																	
Judges Meeting Room(s)	240	1	240	270	A meeting area for judges for each discipline.	Located in close proximity to FOP.	Enclosed space.	Assumes container units or existing spaces. If Rhythmic in the same venue as Artistic and Trampoline, Rhythmic judges will require a meeting room during the Rhythmic competition period. Aproximately 50 judges.	I		F							R	IF	
Judges Meeting Room 1	100	1	100	110			For use by men's Artistic during the competition period.													
Judges Meeting Room 2	80	1	80	90			For use by women's Artistic during the competition period.													
Judges Meeting Room 3	60	1	60	70			For use by Trampoline during the competition period.													
Judges Resting Rooms	75	1	75	110	A rest area for judges for all disciplines.	-	-	-	I		F							G	IF	
Officials Lounge (ITOs & NTOs)	25	1	25	32	A rest area for officials.	-	-	Assumes container units or existing space.	J		J							G	IF	
Officials Locker Room, Shower, Toilet	35	1	35	45	A change area for officials.	-	-	-	I		F							R	IF	
Technical Committee Room(s)	35	3	105	125	A office, work space and meeting area for the technical committee for each discipline.	Located in close proximity to FOP.	1 for Men's Artistic Technical Committee. 1 for Women's Artistic Technical Committee. 1 for Trampoline Technical Committee. Rhythmic Technical Committee can use either rooms after the Artistic/Trampoline competitions conclude.	If Rhythmic in the same venue as Artistic and Trampoline, the Rhythmic Technical Committee will require a office, work/meeting area during the Rhythmic competition period.	I		F							R	IF	
Technical Committee Office	15	3	45	55	Office area for Technical Committee President(s).		Enclosed space. Separate from meeting and work area.													
Technical Committee Work & Meeting Area	20	3	60	70	Combined work and meeting area for technical committee members to review protests and discuss competition.		Enclosed space.													
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I	J	J							R	IOC,IF	
Sport Presentation																				
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.												
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-			F							P		
Announcer Position	3	1	3	-	-	-	-	-			F							P		
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space, consisting of work area, green room, entertainer staging and dressing and prop storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.			F							P		

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Technology Operations																			
Technology Help Desk	20	1	20	25	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support staff & manager.	-				F						P	
Venue Technology Operations (VTO)	25	1	25	32	OCOG Technology Operations area. Operational work space for entire Venue Technology team, including Partners & contractors.	Adjacent to or within Venue Operations Centre (VOC).	Medium security - lockable room. Air-conditioned as office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	-				F					G	P	
OCOG Venue Technology Work Area	-	1	-	-	Work space for Venue Technology Manager, Assistant Venue Technology Manager, Technology Workforce Manager and associated volunteer(s).	-	-	Work space size may be dependent upon workforce per shift.											
AV Contractor Work Area	-	1	-	-	Work space for AV contractors/Technicians.	-	-	Work space size may be dependent upon workforce per shift.											
IT Provider Work Area	-	1	-	-	Work space for IT workforce and "home base" for IT volunteers.	-	-	Work space size may be dependent upon workforce per shift.											
Reprographic Provider Work Area	-	1	-	-	Work space for reprographic contractors/technicians	-	-	Work space size may be dependent upon workforce per shift.											
Mobile Phone Provider Work Area	-	1	-	-	Workspace for mobile phone provider.	-	-	Work space size may be dependent upon workforce per shift. Charging area for Venue Operations workforce phones may be required.											
Wired Communications Provider Work Area	-	1	-	-	Work space for Wired Communications contractors/technicians.	-	-	Work space size may be dependent upon workforce per shift.											
Timing & Scoring/OVR Provider Work Area	-	1	-	-	Work space for OVR/Timing & Scoring contractors/technicians.	-	-	May not be required if adequate working space is allocated in OVR room.											
Radio Distribution Room (RDR)	15	1	15	18	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E and workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).	I			F						P	
Information Technology																			
Computer Equipment Room (CER)	20	1	20	25	Location for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.	I			F					G	P	
Data Local Area Network (LAN) Management Room & Store	25	1	25	32	LAN monitoring room & associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational staff & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces.				F					G	P	

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Telecommunication & Audio Visual																				
Telecomm. Equipment Room (TER) Primary	36	1	36	45	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	Raised flooring is preferable for cabling distribution, but not essential.		I		F							P	
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.		I		F							P	
Telecomm. Operations & Store	25	1	25	32	Operational space for Telecommunications technical staff and associated storage for spare parts.	Adjacent to TER.	As TER with adequate FF&E to support operational staff & storage.	If located adjacent to TER, power supply boards, UPS units & A/C services can be common for both spaces.		I		F							P	
Audio Control Positions	-	-	-	-	-	-	-	-				F						G	P	
Venue	4	1	4	8	Area within Sport Production, location for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Production. Can be on FOP, in stands or in a booth with view to FOP.	High Security. Fully redundant power (mains & generator), water proof, good cable access to control console & playpack equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	Storage for country anthems.												
Press Conference	4	1	4	8	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), air-conditioned, waterproof. Work space & FF&E for operator.	PA system may also be used for Competition Draw if draw is held in Press Conference room.												
Technical Operations	2	1	2	4	PA systems required for Technical Operations area. Space required for amplifier/microphone.	Location as required by SPT.	Standard/mains power & FF&E.													
Umpire/Jury/Judges	2	1	2	4	PA systems required for Technical Operations area. Space required for amplifier/microphone.	Location as required by SPT.														
Warm-Up Area	0	0	0	-	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Within Warm-up area for Athletes.	Standard/mains power & FF&E.	-												
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-												
Workforce Break/Dining	2	Varies	Varies	-	Area within Staff Break/Training room where audio control equipment is installed to facilitate meetings/training of large numbers of staff.	Workforce break/dining areas.	Standard/mains power & FF&E.	-												
Video Board Control	4	1	4	8	Location of video control for video board or video projection system. Operations integral with those of Sport Production.	Ideally with Sport Production. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	-				F						G	P	
Wired Communications Control	4	1	4	8	Location of wired communications master control station and support technician. System essential to operations of both Sport Production and Results/FOP management.	Near to or within Sport Production is preferable. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location is located outdoors. Good cable access to FOP, OVR Room, Sport Production, Broadcast Graphics Room & Results Printing required. Workspace & FF&E for one technician, control equipment, spare parts and containers/boxes for equipment.	-				F						G	P	
Temporary PA equipment Room	2 min	1	2 min	4 min.	Temporary location for installation of PA active equipment (amplifiers etc) for venue PA system.	In existing PA equipment room, if applicable. May be located under venue seating/tribunes if existing room not available.	High Security. Fully redundant power (mains & standby generator) to equipment. Good cable access to speaker location and PA/Audio Control position required. Equipment installed in racks. Each rack set is 1000H x 600W x 600 D maximum.	Number of racks will depend on size of system deployed. Generally venues with large geographic area (outdoor) require larger installation and therefore more racks of amplifier equipment.					F						P	

GYMNASTICS Artistic / Trampoline

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Timing, Scoring and Results Operations																			
Results Data Entry Position	-	-	-	-	Location(s) for event results and/or statistics data entry during competition.	As noted below.	High Security. Fully redundant power (mains & generator) with UPS to all results data entry equipment/workstations. Space & FF&E for all data entry personnel & results management staff.	Adequate weather (rain/sun) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
Field of Play - Technical Table	3	1	3	6	Area/position for collation of results scoring from all Aggregates, Back- Up C & Event Management operational equipment & personnel.	Technical Table on FOP with sport results & sport officials view to all Aggregates.	Cable access to OVR, Main Judges Table & Jury of Appeal.	May occur as a position on the FOP, or in a room with a view to the FOP.											
Timing and Scoring Position	-	-	-	-	Location(s) for event timing & scoring personnel & equipment during competition.	Sport Specific. However, all locations must have view to FOP	High Security Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards & OVR room. Space & FF&E for operators and equipment. Adequate weather (rain/sun) protection for equipment/workstations to be provided.	-	I	I	I	F						R	IF, Swatch
Field of Play - Main Judges Table	40	6	240	280	Position/table at each Aggregate for collation of Judges scoring.	1 x Judge Table at each Aggregate.	Applicable for Artistic and Trampoline only. Cable access to Technical Table & Judges Scoring Positions.	-											
Judges Positions 1-6	36	6	216	250	Position at FOP for Judges scoring & equipment.	6 x Judge scoring position at each Aggregate	Applicable for Artistic and Trampoline only. Cable access to Judge Table.	-											
Field of Play - Main Judge - Jury 1 & 2	4	1	4	8	-	-	Applicable for Rythmic only.	-											
On Venue Results (OVR)	-	-	-	-	Location is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	Easy access to FOP critical for technical and results staff.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Space & FF&E required for high density of computer workstations, racks for servers and working space for technicians, operators and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or venues where two sports occur concurrently will require more space for additional OVR equipment.	I	F								P	
OVR Provider Work Area	30	1	30	38	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO/CIS/PRD etc).	Ideally adjacent to IT provider work area.	Rythmic as a single venue, the requirement is reduced to 25m²	-											
IT Provider Work Area	20	1	20	25	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-											
Scoreboard Control	-	-	-	-	Location of scoreboard control operations. Operations integral with those of Sport Production, data provided from OVR System. Space for both Control and Interface workstations & 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.	I	F							G	P	
Scoreboard Control	2	1	2	4	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator & workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-											
Scoreboard Interface	2	1	2	4	Area for interface equipment (PC workstations) linking OVR system & Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-											

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Results Printing (PRD)	150	1	150	180	Location for hard copy results production & distribution. Location of high intensity work involving many staff preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area & position for the Print Distribution Workstation (IDS interface) equipment and operator.	Near/adjacent to Press Workroom, access to Press Tribunes, Broadcast Commentary Positions, Sport Information Desk, Doping & Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specification. Space & FF&E required for equipment and operational staff as well as space for 1 x pallet of paper to support print/copy operations.	Rythmic as a single venue, the requirement is reduced to 80m²	I	I	I	F						R	IF, Swatch
TV Graphics Interface	3	1	3	6	Location where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operators & good cable access to OVR room.	-				I		F			G	P	
Technology Storage																			
Technology General Storage	15	1	15	18	Location for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F						G	P
IT Bulk Storage	30	1	30	38	Storage area for all spare IT equipment & associated boxes/containers.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to IT provider at all times.				F						G	P
Reprographic Primary Storage Area	12	1	12	15	Primary storage/technical area in-venue for reprographic provider. Storage for spare parts, additional devices and consumables serving primarily Results Printing Operations.	In venue location adjacent to, or within Results Printing Room.	High Security - lockable. Standard office environment with standard power. Workspace & FF&E for one technician.	-		I		F						G	P
Reprographic Bulk Storage Area	15	1	15	18	Storage area for bulk paper allocated to venue (multiple pallets).	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.	Quantity of paper required to support venue operations.				F						G	P
Timing and Scoring Workshop	10	1	10	13	In venue storage & workshop for timing equipment, spare parts & small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.	-		I		F						G	P
Timing & Scoring Bulk Store	60	1	60	75	Storage area for large crates & containers used for scoreboards and bulk equipment. Must be accessible to OVR provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of Timing & Scoring equipment deployed to venue. May be combined with Timing & Scoring Workshop if location & size of space meet requirements for venue.		I		F						G	P
Audio Visual Bulk Store	30	1	30	38	Storage area for large crates & containers used for video boards, PA equipment & TV boxes. Must be accessible to Video/Public address provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of audio/video equipment deployed to venue.				F						G	P
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closet. CCFs are to be installed in locations that allow for easy access for service technicians and which allow for easy cable access both from TER room and to user device locations.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Work Room.	High Security - lockable and weatherproof. May require fan or dedicated A/C depending on room location and/or configuration. Fully redundant power (mains and generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.		I		F						P	
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of power from data/voice and audio-visual cabling.	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in an manner which allows for easy access and repair/replacement. Legacy installations are to be installed as permanent while temporary (overlay) should be installed using methods which are easily installed and removed minimising potential damage to existing venue.				F						P	
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.	-	-	-											
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.	-	-	-											
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.	-	-	-											

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CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	-												
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	-												
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-												
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-												
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-												
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-												
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-												
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing and Scoring/OVR contractor.	I			F							P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.												
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F							P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the videoboard. Required for outdoor venues where the videoboard cannot be suspended from ceiling structure.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each videoboard.												
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Production on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F						G	P	
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to/from audio/PA amplification system and/or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend PA speakers from venue ceiling structure.	-	-	-												
Mobile Phone Infrastructure (antenna)	-	Varies	-	-	Infrastructure required to support installation of additional radio antenna & mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to/from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.	I			F						G	P	

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Ticketing																			
Ticket Box Office	50	1	50	125	An area at the venue where Olympic tickets are sold.	Adjacent to the secure perimeter; near the spectator entry point of the venue	Gross area includes internal & external queue.	Assumes container unit with disabled access to internal and external service window. Dependant upon venue layout and footprint, spectator access point locations.										P	
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	20	1	20	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s)	20	1	20	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	25	1	25	50	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.										P	
Driver Staging	110	1	110	200	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.										P	
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside venue secure perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	30	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-										P	
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from Host City, based on vehicle/bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J							P	
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J							P	
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F						P	
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.				F						G	IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.				F						G	IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.	I			F						G	IOC
Spectator and Staff Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				F						P	
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.	I			F						P	
Accessible	-	-	-	-	-	-	-	Part of Spectator total.				F						P	
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Surface areas paved or gravel.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have drop-off in close proximity to accredited entry point and then driver driver will park.			I	F						P	
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.				F						P	
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.				F						P	
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-			J	J						P	
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes vehicle circulation.				F						P	
Emergency Services	-	-	-	50 (each)	-	Generally located inside the Secure Venue Perimeter.	-	Includes vehicle circulation.				F						P	

GYMNASTICS Artistic / Trampoline

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Venue Development																			
Site Management Compound	693	1	693	900	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Dependent upon venue footprint, extent of temporary works and number of contractors.										P	
Site Management Area	75	1	75	-	-	-	Enclosed space.	-											
Site Manager & Assistant Site Manager(s) Work Area	12	1	12	-	Work and meeting area for the Site Manager and Assistant Site Manager.	-	-	-											
Site Administration Desk & Work Area	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-	-											
Response Team & Vendor Staging	30	1	30	-	On-site permanent and temporary facilities for specialty staff and general labor crew to be on-call.	-	-	-											
Secure Storage - Site Management	15	1	15	-	Area for storage.	-	-	-											
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.	-	Enclosed space. Area for office, staging and a secure storage area.	Assumes container units or existing space. Contractor usually installs container units at their own cost.											
Sign/Look Staging, Work Space/Secure Storage	60	1	60	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	-	Assumes container unit or existing space.											
Material Warehouse/Construction Work Space	115	1	115	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	-	Enclosed space.	Assumes tent or canopy with 2 side walls. Area for carpentry, painting and general construction. Storage for non-weather proof materials.											
Vendor Secure Storage	90	1	90	-	Area for containers, usually provided by the various temporary construction sub-contractors.	-	Enclosed space.	Assumes container units or existing space.											
Materials Staging Area	70	1	70	-	Area for the off-loading and loading of bulk construction materials.	-	Area only.	-											
Exterior Storage Area	70	1	70	-	Outdoor storage of material and products.	-	Area only.	Weatherproof area for large and bulk materials.											
Vehicle Staging	150	1	150	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	-	Area only.	Service, Repair & Specialty vehicles.											
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											

GYMNASTICS Artistic / Trampoline

Principles of Stakeholder Involvement:
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F-Final Decision

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Venue Management																			
Venue Operations Centre (VOC)	75	1	75	115	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Dependent upon venue capacity and venue layout.										P	
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-					F						
Assigned Desks	24	1	24	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	15	1	15	-	Shared work stations.	-	-	-											
Work Space and Storage	24	1	24	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	50	1	50	60	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.					F					P	
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	30	1	30	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	8-10 people.											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	200	1	200	240	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre.	Enclosed space.	Assumes existing space or tent. Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.					F					P	
Workforce																			
Workforce Area	180	1	180	220	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.					F					P	
Check-In Area	115	1	115	-	Area to log-in venue staff and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Area	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	500	1	500	600	The space where workforce meals are served and where workforce can break during their shift.	A location that will provide easy access to all workforce for breaks and meals; will vary according to venue layout/size.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon venue workforce numbers.					F					P	
END OF DOCUMENT																			

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation					
Accreditation																								
Venue Accreditation Office	60	1	60	150	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.										S	P	-				
Day Pass Issue & Problem Resolution Desk	18	1	18	-																				
Work Area	18	1	18	-																				
Manager Desk or Office & Storage	12	1	12	-																				
Waiting Area	12	1	12	-																				
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	-	Enclosed space. Required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.					F					P	-					
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.							F									
Broadcast																								
Broadcast Compound	-	1	-	8000	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements.																
Broadcast Management Office	70	1	70	175	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Gross area includes snow removal access. Assumes container unit.																
Broadcast Manager Office	12	1	12	-		-	-	-	-															
Work Room, Assigned and Unassigned Desks	58	1	58	-		-	-	-	-															
Technical Operations Centre	60	1	60	150	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Broadcast Catering	175	1	175	220	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	-																
Kitchen and Prep	25	1	25	-		-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.															
Buffet Line and Dining	150	1	150	-		-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.															
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements.																
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-																
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters.																
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-																
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.																
Toilets	1.5	12	18	54	Toilet units designated for broadcast personnel.	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Commentator Control Room (CCR)	45	1	45	55	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in close proximity to commentator position area.	Enclosed space with incoming television cable.	Assumes existing space or container unit.																
Broadcast Information Office (BIO)	25	1	25	30	Space for broadcast management and team meetings.	Located near commentator positions and CCR	Enclosed space.	Assumes existing space or container unit.																
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-																
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J													
Mixed Zone	35	1	35	300	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Adjacent to the FOP.	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I	I	J													
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in seating areas with view to FOP and covered when possible.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Outdoor commentator positions should have the option of cover for protection from various weather conditions (e.g. sun, rain). Space for commentator positions may vary according to actual venue/permanent seating setup.																

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	Located at the rear of the commentator grouping so as not to disrupt the FOP view of other commentator positions.	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	A com-cam position equals 2 adjacent commentator positions.			I	J			J	I			
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions.	1 position = uses 1 seat in existing seating bowls.	-			I	J			J	I		R	IOC
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval. Space for camera positions may vary according to actual venue/permanent seating setup.	J		I	J			J	J		R	IOC
Camera Position - Other	4	55	220	495	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	Space for camera positions may vary according to actual venue/permanent seating setup.	I		I	J			J	I		R	IOC
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-					J	I	J			G	IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	See also Technology requirements.					J	I	J			G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in Back of House areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.					J	I	J			G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography	J			J	I	J	I			R	IOC
Catering																			
Catering Compound	758	1	758	1100	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity. Gross area includes snow removal access.		I		F						P	
Work Areas - Catering Management	32	1	32	-		-	Enclosed space.	Assumes existing space or container.											
Organising Committee Catering Manager	-	-	-	-		Located in Venue Operations Centre.	See Venue Management - VOC.	-											
Catering Contractor	20	1	20	-		-	-	-											
Beverage Contractor	12	1	12	-	Operational work space(s).	-	-	-											
Dry, Cold and Ice Storage	38	4	152	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.											
Vehicle Staging	50	1	50	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-											
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-											
Kitchen and Preparation Area	54	1	54	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.											
Uncovered Storage	50	1	50	-	Outdoor storage of material and products.	-	Area only.	-											
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilets should be provided.											
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit.	-											
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container's). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity and level of catering activity.		I		F						P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	See Look for details.	-		I		F						P	

GYMNASTICS Rhythmic

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Ceremonies																				
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-											P	
Ceremonies Staging	50	1	50	60	For the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule; to coordinate location of podium, procession, and recession route, and location of flagpoles.	Adjacent to or close to FOP.	Consists of coordinator work space with area for anthem storage, secure storage, preparation and dressing area; see below for additional details.	Assumes existing space or container.											P	
Manager Desk	6	1	6	-	Workspace for Manager.	-	-	-												
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenters, Medal/Flower staging, Secure medal and flag storage	36	1	36	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format. Medals storage is not required for those venues where the medal ceremony will take place at another location.												
Presenter Preparation & Dressing	4	2	8	-	A dressing and preparation area for Presenters.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-												
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	Close to FOP.	Limited use, may be shared with other space. See Sport Presentation.	-		I		F							P	
Awards Podium Storage	25	1	25	30	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	-			I	F							P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.	I		J	J				J	G	R	IOC	
Cleaning and Waste																				
Cleaning & Waste Compound	339	1	339	460	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependant upon venue capacity.					F						P	
Vehicle Staging	90	1	90	-	Parking area for collection vehicles which generally remain inside the venue.	-	Area only.	-												
Sorting Area	90	1	90	-	Area for sorting waste.	-	Area only.	-												
Waste & Recycle Containers	15	6	90	-	Area in front of waste and recycle bins where material is separated for containment.	-	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).												
Compactor Unit	25	Varies	Varies	-		-	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.												
Equipment Supply & Storage	15	3	45	-	Space for cleaning equipment and paper product.	-	Enclosed space.	Assumes container unit.												
Contractor Office	24	1	24	-	Space for management and workforce staging.	-	Enclosed space.	-												
Doping Control																				
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	-	J		J	J							R	IOC
Waiting Area/Reception	36	1	36	40	Area where athletes check-in and wait prior to testing.	-	-	-												
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Blood Processing Room(s)	15	Varies	Varies	20 (each)	Area where athlete blood samples are provided and sealed	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Office / Storage	12	1	12	15	Work and storage space for Doping Manager.	-	Enclosed space. Secure storage.	-												
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-	I		J	J							R	IOC

GYMNASTICS Rhythmic

Principles of Stakeholder Involvement:
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Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.					F					P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of workforce pre-shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large group.	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.					F					P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.					F					P	
Information Desk	-	-	-	-	-	-	-	-											
Lost and Found	-	-	-	-	A holding area for items found in the venue.	-	-	-											
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spectators.	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	-	-	Will depend on level of service at venue.					F					P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes; located between screening/search area and spectator plaza.	Total number generally 50% of security screening positions.					F					P	
Stroller Storage	Varies	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	In close proximity to seating area.	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.					F					P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.					F					P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators					F					P	
Spectator Shade and Shelter	Varies	Varies	Varies	72 (each)	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and spectator service amenities.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.					F					P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-					F					P	
Spectator Toilets	1.5	Varies	Varies	5 (each) 6 (per 20 toilets)	Toilet units designated for spectators.	Located in FOH, close proximity to seating and spectator amenities.	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.					F					P	
Hand Wash Stations	1	Varies	Varies	20	A chemical unit used in the absence of potable water.	Located in FOH, close proximity to seating and spectator amenities.	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.					F					P	

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Finance																				
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I			F						P	
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Generally located inside venue perimeter and outside venue perimeter.	Area only.	Quantity dependent upon venue capacity.												
Language Services																				
Work Area / Desk	28	1	28	35	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre.	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-		J	J			I				G	IOC	
Simultaneous Interpretation Booth	2	3	6	18	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference needs.	-		J	J			I				G	IOC	
Logistics																				
Logistics Compound	-	1	Varies	800	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access. Secondary Compound Area - an additional compound area may be necessary for staging or storage of equipment that is in close proximity to FOP and/or the finish area.											P	
Logistics Centre	75	1	75	-	-	-	Enclosed space.	Assumes container units or tent.												
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-												
Team Staging/Work Area	40	1	40	-	Space for staging and a work area.	-	-	-												
Secure Storage & Equipment Sign-out	20	1	20	-	Area for storage.	-	Storage for tools.	-												
Warehouse Storage	115	1	115	-	Storage area for furniture, fixtures, and equipment (FF&E).	-	Enclosed space.	Assumes tent												
Storage Yard	100	1	100	-	Outside storage area within compound.	-	Area only.	-												
Vehicle Staging	125	1	125	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-												
Fuel Tank(s)	9	Varies	Varies	25 (each)	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.												
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.												
Material Transfer Area (MTA)	-	1	-	750	Generally for deliveries to the venue that may take place after hours or not within the logistics delivery window period.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.											P	
X-Ray Area	54	1	54	100	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.												

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Look of the Games																			
Work Area and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.					F					P	
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J					J		R	IOC
National Olympic Committee (NOC) Flags	-	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition sch	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.			J	J				J		R	IOC
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and back of locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J				J	G	R,P	IOC, IF
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals.	-											
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH).	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.		I	J	J				J	G	R	IOC, L
Backdrop - Press Conference Room	2.2 x 6	1	2.2 x 6	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F		I	I				
Medical Services																			
Athlete Medical	76	1	76	125	An area where Medical provides services to athletes competing at the venue.	Located within the accredited Athlete Area.	Enclosed air-conditioned space.	Assumes container or existing space.	J	J	J					J		R	IF
Reception & Waiting	15	1	15	-	Area where athletes check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	4	32	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Physiotherapy Area(s)	8	2	16	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J					J		R	IF
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.											
Spectator Medical	65	1	65	120	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed air-conditioned space. 1 per 20,000 spectators.	Assumes container unit or existing space.		I	F		I	I				P	
Reception & Waiting	15	1	15	-	Area where spectators check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	15	1	15	-	Space for Medical workforce.	-	-	-											
Examination Area(s)	8	4	32	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Triage Station	50	1	50	100	Additional space to treat minor medical needs of spectators.	Located in the Front of House.	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.		I	F		I	I				P	
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.					F	I	I			P	
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Paved, graveled or grass area with fence, barricade or rope enclosure.	-				F	I	I				P	

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Merchandise																				
Office, Cash Room & Work Area	12	1	12	15		-	Enclosed space with secure entry.	Assumes container unit or existing space.					F						P	
Storage	15	3	15	45	An area to manage the retailing of all Olympic merchandise inside the venue.	-	-	Assumes storage containers or existing space. Units provided by vendor. Quantity and location decided by vendor and OCOG.				F							P	
Program Sales Stands/Booths	1	1	1	2		-	Area only.	Gross area is per each P.O.S. and includes service area and queue.				F							P	
Merchandise Points of Sale (POS)	6	Varies	Varies	18	Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.				I	F							P	
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.				I	J	J					G	R	IOC
Olympic Family Services																				
Olympic Family Lounge	319	1	319	700	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes tent.			I	F					I	G	G	IOC
Welcome Desk & Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-													
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.													
Staff/Volunteer Room & Storage	16	1	16	-	On-call waiting area for Protocol staff and equipment storage.	-	-													
Dining & Lounge	190	1	190	-	Area for dining and lounge.	-	-													
Preparation/Buffer set-up/Beverage Area	95	1	95	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Staff/Volunteer, Athlete, Media)													
Toilets	40	1	40	80	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	6 female, 6 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided				F							P	
Protocol flags	-	-	-	-	-	-	See Look of the Games.				J	J							R	IOC
Press Operations																				
Venue Media Centre (VMC)	800	1	800	1100	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Confer	Close proximity to Press Tribune, Press Conference room, and Mixed Zone area.	Enclosed space for 300 press and 60 photographers.	Assumes tent.				F							R	IOC
Reception & Information Desk	30	1	30	-	Welcome desk at the entrance, for information distribution.	-	-													
Storage	9	1	9	-	Equipment storage.	-	-													
Press Manager Office	12	1	12	-	Operational work space.	-	-													
Photo Manager Office	12	1	12	-	Operational work space.	-	-													
Olympic News Service (ONS) Work Room or Area	45	1	45	-	Operational work space.	-	Enclosed space.													
Info Stations	36	1	36	-	Computer stations and printers.	-	-													
Press Work Room or Area	344	1	344	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.												
Photo Work Room or Area	75	1	75	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.													
Photographers Check-in & Photo Bib Distribution	18	1	18	-	Area where photographers register and receive/return photo bibs.	-	-													
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.												
Lounge/Catering Prep	200	1	200	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-													
Toilets	1.5	12	18	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided												

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Press Conference Room	240	1	240	400	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. Use for Team Delegation Orientation by FIG/International Federation. May be used by press staff for meetings between press conferences.	I			F						R	IOC
Seating Area	180	1	180	-	An area for accredited press.	-	Seats and standing room.	-											
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3.6 m table, 8 chairs & step and repeat backdrop.	-											
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-											
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-											
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-				F		I	I				
Mixed Zone	20-25 linear mtrs.	1	20-25 linear mtrs.	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I	I	F							R	IOC,IF
Press Tribune	-	-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	-	Tabled seating is fitted out with telephones, television monitors, power and other press facilities (indoor venues). For outdoor venues, these services will exist in VMC.	-											
Press Tabletop Seating	Varies	Varies	Varies	-	-	Easy access from Venue Media Centre and direct access if possible to Mixed Zone.	In an existing stadium or seating area: 1 seat wide (folding chairs at 60 cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50 cm deep tabletop per position, each position = 2 stadium seats. Temporary Stands: 1 seat (folding chairs at 60 cm spacing) x 2 rows deep of proposed seating system (normally 150 cm-170 cm deep).	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.			I	F					R	IOC,IF	
Press Seating (non-tabled)	Varies	Varies	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.			I	F						R	IOC,IF
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided											
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-											
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	In close proximity to FOP.	Approx. 180 photographers expected at peak finals periods. 60cm wide x 90cm deep per position, multi-row areas require 60cm riser per row.	Power, Wireless and data cabling needed to photo positions on FOP.	J	I	J							R	IOC, IF
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Normal seating areas.	-	Seating areas are generally not applicable for outdoor venues.	I	I	F							G	IOC
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

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Security																			
Security Command Centre	150	1	150	180	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.											
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-											
Security Work Area	15	1	15	-	An area for additional security agencies.	-	-	-											
CCTV Surveillance & Video Desk	18	1	18	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-											
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.											
Radio Dispatch & Monitoring	18	1	18	-	An area for the monitoring and control of security communication and the distribution/return of radios.	-	-	-											
Work Room	60	1	60	-	Open plan of work stations designated for security personnel.	-	-	-											
Secure Storage	12	1	12	-	An area for Security equipment storage.	-	Enclosed, secure space.	-											
Dog Cage(s)	4	Varies	Varies	8 (each)	Holding area for security dogs.	-	Area only for enclosed portable units (e.g. cages).	Dependent upon Host City/Country / Risk Assessment.											
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-											
Briefing and Break Area / Staging Area	220	1	220	250	Area for briefing staff before and after shifts.	-	Enclosed space.	Assumes tent.											
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.											
Vehicle Screening & Sanitisation Area	880	1	880	1100	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.											
Vehicle Queue	300	1	300	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-											
Oversized Vehicle Queue	210	1	210	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-											
Vehicle Sanitisation & Wanding Areas	250	1	250	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.											
Oversized Vehicle (Truck & Bus) Sanitisation	70	1	70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-											
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.											
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Enclosed space for staging and break.	-											
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the venue secure perimeter and/or venue screening area for constituents.	-	Dependent upon spectator capacity and venue design.											
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-											
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-											
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-											
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.											

GYMNASTICS Rhythmic

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Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the venue secure perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.										R	IOC
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the venue secure perimeter.	Enclosed space for screening/search area positions.. Net area for each screening position will accommodate the following: 4 Wanding Stations, OR 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue. Dependent upon spectator capacity and venue design.											
Athlete / Team	18	1-2	18-36	36-72	-	BOH.	-	-				F						R	IOC
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with Athlete and/or Olympic Family.				F						G	IOC
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with TO, ENG and/or Press.				F						P	
Broadcast	18	1-2	18-36	45-90	-	BOH.	-	If possible, direct access from outside venue perimeter into Broadcast Compound.											
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	BOH; located in close proximity to Venue Broadcast Compound.	-	-											
Press and Photographer	18	1-2	18-36	36-72	-	BOH; located in close proximity to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast).	If possible, direct access from outside venue perimeter into Venue Media Centre.				F	I						
Workforce (Staff/Volunteer/Contractor/Vendor)	18	2-3	36-54	90-135	-	BOH or possibly FOH.	-	-				J	J					P	
Spectator / Sponsors	18	Varies	Varies	54	-	FOH.	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-	I			F						P	
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.				F		I				P	
Exception Gate	Varies	Varies	Varies	-	Access gate for designated accredited personnel.	FOH; located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.				F						P	
X-ray of bags	36	Varies	Varies	72 (each)	Device for screening bags/equipment coming into the venue.	FOH and BOH.	Covered.	-				F	I					P	
Venue Perimeter Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	Dependent upon spectator capacity and venue design.											
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	1m to 3m width, sometimes used as a secondary service vehicle exit point.	-											
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m each, number varies per concourse design.	-											
Workforce (Staff/Volunteer/Contractor/Vendor)	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	Size dependant upon total workforce numbers.				I	F				G	P	
Sponsor Services																			
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.				I	F					P	

GYMNASTICS Rhythmic

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Sport Operations																			
Competition Management	75	1	75	115	A work area for Sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located close to Athlete Area and field of play; may be co-located within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space.	I				F					P	
Competition Manager & Asst. Manager Desks	12	1	12	-	An area for the Manager and Assistant(s) Manager.	-	-	-											
Assigned Work Area	24	1	24	-	Open plan of work stations designated for Sport personnel.	-	-	-											
Hot Desks	15	1	15	-	Shared work stations.	-	-	-											
Work Area	24	1	24	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-											
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-											
Sport Information	30	1	30	45	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located in Athlete Area.	Enclosed space with waiting area and seating.	Includes: information boards, pigeon holes, Info & Help Desk, work area, info terminal stations & storage.	J			J						R	IF
Athlete Lounge	80	1	80	120	-	Located in Athlete Area.	-	Includes: seating area, lounge, Info & Help Desk, info terminal stations.	J			J						R	IF
Athlete Dressing, Locker, Shower, Toilet	-	-	-	-	Change-room facilities to accommodate athletes at the venue during competition and training.	Located in Athlete Area.	-	Shared facilities maybe possible if competition times do not overlap when disciplines or sports share venues.	J			J						R	IF
Rhythmic	15	10	150	200	-	-	Requirement for female change-rooms only.	-											
Massage Area	15	Varies	Varies	20 (each)	Area for athlete massage.	Located in Athlete Area.	Enclosed space.	Quantity varies according to each discipline/athlete numbers.	I			F	I					P	IF
IF & Sport Meeting Room	30	1	30	45	Meeting facility at the venue for the International Federation and Competition Management.	Located in close proximity to the IF Area and Competition Management area.	Enclosed space.	Shared meeting room area between IF & Sport to serve various meeting needs.	J			J						G	IF
Team Delegation Orientation Meeting Room	-	-	-	-	A meeting area for orientation of teams prior to the start of the competition.	Located in Press Conference Room.	Use of Press Conference area for team delegations orientation meeting(s) prior to start of competition for Artistic, Trampoline and Rhythmic.	-	J			J						R	IF
Sport Equipment Storage	80	1	80	90	Storage for athlete/team sport equipment.	Located adjacent to FOP or within close proximity.	-	Pending whether athletes can store equipment in the Olympic Village. Assumes container units or existing space.	F			I			I	I		R	IF
FOP Equipment Storage	80	1	80	90	Storage of equipment required for competition and other field of play set-up/maintenance items (e.g. mats, foam, etc.)	Located adjacent to FOP or within close proximity.	-	-	F			I			I	I		R	IF
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	Reference should be made to FIG guidelines for all FOP technical requirements.	-	J			J	I					R	IF
Playing Surface Dimensions or Area	40 x 70	1	2800	-	-	-	Area per FIG requirements.	-	J			J	I					R	IF
Vertical Height Requirement	12m	1	12m	-	-	-	12 metres minimum vertical height requirement above area. For RG, airconditioning may not disturb the ribbons. Rhythmic: mat with special wooden underlay and special security borders around it. See FIG Requirements.	-	F			I			I	I		R	IOC, IF
Surface	-	-	-	-	-	-	-	-											
Camera Positions - IF/Team, Biomechanics	3.5	3	10.5	-	-	-	1 Team/IF. 1-2 biomechanics.	Positions to be approved by FIG.	J			J			I	J		R	IF
Sports Lighting - Technical	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

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Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	-	-	-	J									R	IF
Warm-up Surface Dimensions or Area	35 x 60	1	2100	-	-	Adjacent to Competition Hall.	Area per FIG requirements. 1 warm-up hall for Rhythmic.	3 warm-up halls for all disciplines: Artistic, Rhythmic, Trampoline if in one venue; otherwise only one warm-up hall required if rhythmic is a single/shared venue.	I			F	I					R	IF
Vertical Height Requirement	12m	1	12m	-	-	-	12 metres minimum vertical height requirement above area.	-											
Surface	-	-	-	-	-	-	Per FIG requirements.	-											
Athlete / Team Seating	-	-	-	-	A designated seating area for athletes.	-	-	-	J	I	J								
Same Sport	-	Varies	-	-	-	-	-	-	J	I	J							R	IOC,IF
Different Sport	-	Varies	-	-	-	-	-	-	I	I	F							R	IOC
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	May be required for Sport Staff use. Quantity varies according to athlete numbers.				F						P	
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	Required if FOP is not located near Athlete area.	Assumes temporary units. Quantity varies according to athlete numbers.				F						P	
International Federation																			
IF Area	70	1	70	85	An area or central location in the venue for IF operations.	Located in close proximity to accredited seating areas.	Enclosed space.	Assumes container units or existing space.	I	I	F							R	IF
IF President's Office	15	1	15	-	-	-	-	-	I	I	F							R	IF
IF Secretary - General/Executive Director's Office	15	1	15	-	-	-	-	-	I		F							G	IF
Reception, Secretariat, Waiting & Work Area	40	1	40	-	-	-	-	-	I		F							G	IF
Executive Committee Area	60	1	60	70	An area for executive committee members throughout the competition period.	Located in accredited seating area.	Enclosed space.	-	I		F							R	IF
Executive Committee Meeting Area	20	1	20																
Executive Committee Office	40	1	40																
Judges Resting Rooms	20	1	20	25	A rest area for officials.	-	-	-	I		F							G	IF
Officials Lounge (ITOs & NTOs)	25	1	25	32	A rest area for officials.	-	-	Assumes container units or existing space.	J		J							G	IF
Officials Locker Room, Shower, Toilet	35	1	35	45	A change area for officials.	-	-	-	I		F							R	IF
Technical Committee Room(s)	35	1	35	40	A office, work space and meeting area for the technical committee for each discipline.	Located in close proximity to FOP.	1 for Men's Artistic Technical Committee. 1 for Women's Artistic Technical Committee. 1 for Trampoline Technical Committee. Rhythmic Technical Committee can use either rooms after the Artistic/Trampoline competitions conclude.	If Rhythmic in the same venue as Artistic and Trampoline, the Rhythmic Technical Committee will require a office, work/meeting area during the Rhythmic competition period.	I		F							R	IF
Technical Committee Office	15	1	15	20	Office area for Technical Committee President(s).		Enclosed space. Separate from meeting and work area.												
Technical Committee Work & Meeting Area	20	1	20	25	Combined work and meeting area for technical committee members to review protests and discuss competition.		Enclosed space.												
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I	J	J							R	IOC,IF
Sport Presentation																			
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.											
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-				F						P	
Announcer Position	3	1	3	-	-	-	-	-				F						P	
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space, consisting of work area, green room, entertainer staging and dressing and prop storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.				F						P	

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Technology Operations																			
Technology Help Desk	20	1	20	25	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support staff & manager.	-				F						P	
Venue Technology Operations (VTO)	25	1	25	32	OCOG Technology Operations area. Operational work space for entire Venue Technology team, including Partners & contractors.	Adjacent to or within Venue Operations Centre (VOC).	Medium security - lockable room. Air-conditioned as office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	-				F					G	P	
OCOG Venue Technology Work Area	-	1	-	-	Work space for Venue Technology Manager, Assistant Venue Technology Manager, Technology Workforce Manager and associated volunteer(s).	-	-	Work space size may be dependent upon workforce per shift.											
AV Contractor Work Area	-	1	-	-	Work space for AV contractors/Technicians.	-	-	Work space size may be dependent upon workforce per shift.											
IT Provider Work Area	-	1	-	-	Work space for IT workforce and "home base" for IT volunteers.	-	-	Work space size may be dependent upon workforce per shift.											
Reprographic Provider Work Area	-	1	-	-	Work space for reprographic contractors/technicians	-	-	Work space size may be dependent upon workforce per shift.											
Mobile Phone Provider Work Area	-	1	-	-	Workspace for mobile phone provider.	-	-	Work space size may be dependent upon workforce per shift. Charging area for Venue Operations workforce phones may be required.											
Wired Communications Provider Work Area	-	1	-	-	Work space for Wired Communications contractors/technicians.	-	-	Work space size may be dependent upon workforce per shift.											
Timing & Scoring/OVR Provider Work Area	-	1	-	-	Work space for OVR/Timing & Scoring contractors/technicians.	-	-	May not be required if adequate working space is allocated in OVR room.											
Radio Distribution Room (RDR)	15	1	15	18	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E and workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).	I			F						P	
Information Technology																			
Computer Equipment Room (CER)	20	1	20	25	Location for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.	I			F					G	P	
Data Local Area Network (LAN) Management Room & Store	25	1	25	32	LAN monitoring room & associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational staff & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces.				F					G	P	

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Telecommunication & Audio Visual																				
Telecomm. Equipment Room (TER) Primary	36	1	36	45	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	Raised flooring is preferable for cabling distribution, but not essential.		I		F							P	
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.		I		F							P	
Telecomm. Operations & Store	25	1	25	32	Operational space for Telecommunications technical staff and associated storage for spare parts.	Adjacent to TER.	As TER with adequate FF&E to support operational staff & storage. Rhythmic as a single venue, the requirement is reduced to 20m²	If located adjacent to TER, power supply boards, UPS units & A/C services can be common for both spaces.		I		F							P	
Audio Control Positions	-	-	-	-	-	-	-	-				F						G	P	
Venue	4	1	4	8	Area within Sport Production, location for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Production. Can be on FOP, in stands or in a booth with view to FOP.	High Security. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	Storage for country anthems.												
Press Conference	4	1	4	8	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), air-conditioned, waterproof. Work space & FF&E for operator.	PA system may also be used for Competition Draw if draw is held in Press Conference room.												
Technical Operations	2	1	2	4	PA systems required for Technical Operations area. Space required for amplifier/microphone.	Location as required by SPT.	Standard/mains power & FF&E.													
Umpire/Jury/Judges	2	1	2	4	PA systems required for Technical Operations area. Space required for amplifier/microphone.	Location as required by SPT.														
Warm-Up Area	0	0	0	-	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Within Warm-up area for Athletes.	Standard/mains power & FF&E.	-												
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-												
Workforce Break/Dining	2	Varies	Varies	-	Area within Staff Break/Training room where audio control equipment is installed to facilitate meetings/training of large numbers of staff.	Workforce break/dining areas.	Standard/mains power & FF&E.	-												
Video Board Control	4	1	4	8	Location of video control for video board or video projection system. Operations integral with those of Sport Production.	Ideally with Sport Production. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	-				F						G	P	
Wired Communications Control	4	1	4	8	Location of wired communications master control station and support technician. System essential to operations of both Sport Production and Results/FOP management.	Near to or within Sport Production is preferable. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location is located outdoors. Good cable access to FOP, OVR Room, Sport Production, Broadcast Graphics Room & Results Printing required. Workspace & FF&E for one technician, control equipment, spare parts and containers/boxes for equipment.	-				F						G	P	
Temporary PA equipment Room	2 min	1	2 min	4 min.	Temporary location for installation of PA active equipment (amplifiers etc) for venue PA system.	In existing PA equipment room, if applicable. May be located under venue seating/tribunes if existing room not available.	High Security. Fully redundant power (mains & standby generator) to equipment. Good cable access to speaker location and PA/Audio Control position required. Equipment installed in racks. Each rack set is 1000H x 600W x 600 D maximum.	Number of racks will depend on size of system deployed. Generally venues with large geographic area (outdoor) require larger installation and therefore more racks of amplifier equipment.					F						P	

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Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Timing, Scoring and Results Operations																			
Results Data Entry Position	-	-	-	-	Location(s) for event results and/or statistics data entry during competition.	As noted below.	High Security. Fully redundant power (mains & generator) with UPS to all results data entry equipment/workstations. Space & FF&E for all data entry personnel & results management staff.	Adequate weather (rain/sun) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
Field of Play - Technical Table	3	1	3	6	Area/position for collation of results scoring from all Aggregates, Back- Up C & Event Management operational equipment & personnel.	Technical Table on FOP with sport results & sport officials view to all Aggregates.	Cable access to OVR, Main Judges Table & Jury of Appeal.	May occur as a position on the FOP, or in a room with a view to the FOP.											
Timing and Scoring Position	-	-	-	-	Location(s) for event timing & scoring personnel & equipment during competition.	Sport Specific. However, all locations must have view to FOP	High Security Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards & OVR room. Space & FF&E for operators and equipment. Adequate weather (rain/sun) protection for equipment/workstations to be provided.	-	I	I	I	F						R	IF, Swatch
Field of Play - Main Judges Table	40	6	240	280	Position/table at each Aggregate for collation of Judges scoring.	1 x Judge Table at each Aggregate.	Applicable for Artistic and Trampoline only. Cable access to Technical Table & Judges Scoring Positions.	-											
Judges Positions 1-6	36	6	216	250	Position at FOP for Judges scoring & equipment.	6 x Judge scoring position at each Aggregate	Applicable for Artistic and Trampoline only. Cable access to Judge Table.	-											
Field of Play - Main Judge - Jury 1 & 2	4	1	4	8	-	-	Applicable for Rhythmic only.	-											
On Venue Results (OVR)	-	-	-	-	Location is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	Easy access to FOP critical for technical and results staff.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Space & FF&E required for high density of computer workstations, racks for servers and working space for technicians, operators and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or venues where two sports occur concurrently will require more space for additional OVR equipment.	I	F								P	
OVR Provider Work Area	30	1	30	38	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO/CIS/PRD etc).	Ideally adjacent to IT provider work area.	Rhythmic as a single venue, the requirement is reduced to 25m²	-											
IT Provider Work Area	20	1	20	25	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-											
Scoreboard Control	-	-	-	-	Location of scoreboard control operations. Operations integral with those of Sport Production, data provided from OVR System. Space for both Control and Interface workstations & 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.	I	F							G	P	
Scoreboard Control	2	1	2	4	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator & workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-											
Scoreboard Interface	2	1	2	4	Area for interface equipment (PC workstations) linking OVR system & Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-											

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Results Printing (PRD)	150	1	150	180	Location for hard copy results production & distribution. Location of high intensity work involving many staff preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area & position for the Print Distribution Workstation (IDS interface) equipment and operator.	Near/adjacent to Press Workroom, access to Press Tribunes, Broadcast Commentary Positions, Sport Information Desk, Doping & Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specification. Space & FF&E required for equipment and operational staff as well as space for 1 x pallet of paper to support print/copy operations.	Rythmic as a single venue, the requirement is reduced to 80m ²	I	I	I	F						R	IF, Swatch
TV Graphics Interface	3	1	3	6	Location where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operators & good cable access to OVR room.	-				I		F			G	P	
Technology Storage																			
Technology General Storage	15	1	15	18	Location for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F						G	P
IT Bulk Storage	30	1	30	38	Storage area for all spare IT equipment & associated boxes/containers.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to IT provider at all times.				F						G	P
Reprographic Primary Storage Area	12	1	12	15	Primary storage/technical area in-venue for reprographic provider. Storage for spare parts, additional devices and consumables serving primarily Results Printing Operations.	In venue location adjacent to, or within Results Printing Room.	High Security - lockable. Standard office environment with standard power. Workspace & FF&E for one technician.	-		I		F						G	P
Reprographic Bulk Storage Area	15	1	15	18	Storage area for bulk paper allocated to venue (multiple pallets).	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	Rythmic as a single venue, the requirement is increase to 20m ² . High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of paper required to support venue operations.				F						G	P
Timing and Scoring Workshop	10	1	10	13	In venue storage & workshop for timing equipment, spare parts & small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.	-		I		F						G	P
Timing & Scoring Bulk Store	60	1	60	75	Storage area for large crates & containers used for scoreboards and bulk equipment. Must be accessible to OVR provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	Rythmic as a single venue, the requirement is reduced to 50m ² . High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of Timing & Scoring equipment deployed to venue. May be combined with Timing & Scoring Workshop if location & size of space meet requirements for venue.		I		F						G	P
Audio Visual Bulk Store	30	1	30	38	Storage area for large crates & containers used for video boards, PA equipment & TV boxes. Must be accessible to Video/Public address provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of audio/video equipment deployed to venue.				F						G	P
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closet. CCFs are to be installed in locations that allow for easy access for service technicians and which allow for easy cable access both from TER room and to user device locations.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Work Room.	High Security - lockable and weatherproof. May require fan or dedicated A/C depending on room location and/or configuration. Fully redundant power (mains and generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.		I		F						P	
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of power from data/voice and audio-visual cabling.	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in an manner which allows for easy access and repair/replacement. Legacy installations are to be installed as permanent while temporary (overlay) should be installed using methods which are easily installed and removed minimising potential damage to existing venue.				F						P	
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.	-	-	-											
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.	-	-	-											
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.	-	-	-											

GYMNASTICS Rhythmic

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CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	-												
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	-												
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-												
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-												
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-												
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-												
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-												
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing and Scoring/OVR contractor.		I		F							P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.												
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.		I		F							P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the videoboard. Required for outdoor venues where the videoboard cannot be suspended from ceiling structure.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each videoboard.												
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Production on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.		I		F						G	P	
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to/from audio/PA amplification system and/or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend PA speakers from venue ceiling structure.	-	-	-												
Mobile Phone Infrastructure (antenna)	-	Varies	-	-	Infrastructure required to support installation of additional radio antenna & mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to/from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.		I		F						G	P	

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Ticketing																			
Ticket Box Office	50	1	50	125	An area at the venue where Olympic tickets are sold.	Adjacent to the secure perimeter; near the spectator entry point of the venue	Gross area includes internal & external queue.	Assumes container unit with disabled access to internal and external service window. Dependant upon venue layout and footprint, spectator access point locations.										P	
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	20	1	20	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s)	20	1	20	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	25	1	25	50	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.										P	
Driver Staging	110	1	110	200	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.										P	
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside venue secure perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	30	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-										P	
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from Host City, based on vehicle/bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J							P	
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J							P	
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F						P	
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.				F			I			G	IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.				F						G	IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.	I			F						G	IOC
Spectator and Staff Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				F						P	
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.	I			F						P	
Accessible	-	-	-	-	-	-	-	Part of Spectator total.				F						P	
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Surface areas paved or gravel.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have drop-off in close proximity to accredited entry point and then driver will park.			I	F						P	
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.				F			I			P	
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.				F			I			P	
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-			J	J						P	
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes vehicle circulation.				F			I			P	
Emergency Services	-	-	-	50 (each)	-	Generally located inside the Secure Venue Perimeter.	-	Includes vehicle circulation.				F			I			P	

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Venue Development																			
Site Management Compound	693	1	693	900	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Dependent upon venue footprint, extent of temporary works and number of contractors.										P	
Site Management Area	75	1	75	-	-	-	Enclosed space.	-											
Site Manager & Assistant Site Manager(s) Work Area	12	1	12	-	Work and meeting area for the Site Manager and Assistant Site Manager.	-	-	-											
Site Administration Desk & Work Area	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-	-											
Response Team & Vendor Staging	30	1	30	-	On-site permanent and temporary facilities for specialty staff and general labor crew to be on-call.	-	-	-											
Secure Storage - Site Management	15	1	15	-	Area for storage.	-	-	-											
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.	-	Enclosed space. Area for office, staging and a secure storage area.	Assumes container units or existing space. Contractor usually installs container units at their own cost.											
Sign/Look Staging, Work Space/Secure Storage	60	1	60	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	-	Assumes container unit or existing space.											
Material Warehouse/Construction Work Space	115	1	115	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	-	Enclosed space.	Assumes tent or canopy with 2 side walls. Area for carpentry, painting and general construction. Storage for non-weather proof materials.											
Vendor Secure Storage	90	1	90	-	Area for containers, usually provided by the various temporary construction sub-contractors.	-	Enclosed space.	Assumes container units or existing space.											
Materials Staging Area	70	1	70	-	Area for the off-loading and loading of bulk construction materials.	-	Area only.	-											
Exterior Storage Area	70	1	70	-	Outdoor storage of material and products.	-	Area only.	Weatherproof area for large and bulk materials.											
Vehicle Staging	150	1	150	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	-	Area only.	Service, Repair & Specialty vehicles.											
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.	I			F						P	
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.	-	I			F						P	
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.	I			F						P	
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.											
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-	-											

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Venue Management																			
Venue Operations Centre (VOC)	75	1	75	115	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Dependent upon venue capacity and venue layout.					F					P	
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-											
Assigned Desks	24	1	24	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	15	1	15	-	Shared work stations.	-	-	-											
Work Space and Storage	24	1	24	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	50	1	50	60	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.					F					P	
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	30	1	30	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	8-10 people.											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	200	1	200	240	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre.	Enclosed space.	Assumes existing space or tent. Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.					F					P	
Workforce																			
Workforce Area	180	1	180	220	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.					F					P	
Check-In Area	115	1	115	-	Area to log-in venue staff and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Area	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	500	1	500	600	The space where workforce meals are served and where workforce can break during their shift.	A location that will provide easy access to all workforce for breaks and meals; will vary according to venue layout/size.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon venue workforce numbers.					F					P	
END OF DOCUMENT																			

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation				
Accreditation																							
Venue Accreditation Office	50	1	50	125	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.										P	-				
Day Pass Issue & Problem Resolution Desk	15	1	15	-																			
Work Area	15	1	15	-																			
Manager Desk or Office & Storage	12	1	12	-																			
Waiting Area	8	1	8	-																			
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	-	Enclosed space. Required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.					F					P	-				
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.															
Broadcast																							
Broadcast Compound	-	1	-	3000	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements.															
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Gross area includes snow removal access. Assumes container unit.															
Broadcast Manager Office	12	1	12	-		-	-	-	-														
Work Room, Assigned and Unassigned Desks	48	1	48	-		-	-	-	-														
Technical Operations Centre	40	1	40	100	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Broadcast Catering	140	1	140	180	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	-															
Kitchen and Prep	20	1	20	-		-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.														
Buffet Line and Dining	120	1	120	-		-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.														
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements. Located in temporary structure. Assumes container/trailer unit or tent.															
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	-															
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-															
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters. Located in temporary structure. Assumes container/trailer unit or tent.															
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	-															
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-															
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.															
Toilets	1.5	8	12	36	Toilet units designated for broadcast personnel.	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.															
Commentator Control Room (CCR)	60	1	60	75	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in close proximity to commentator position area.	Enclosed space with incoming television cable.	Assumes existing space or container unit.															
Broadcast Information Office (BIO)	20	1	20	25	Space for broadcast management and team meetings.	Located near commentator positions and CCR	Enclosed space.	Assumes existing space or container unit.															
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-															
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J												
Mixed Zone	25 linear mtrs.	1	25 linear mtrs.	170	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Adjacent to the FOP.	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I	I	J												
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in seating areas with view to FOP and covered when possible.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Outdoor commentator positions should have the option of cover for protection from various weather conditions (e.g. sun, rain). Space for commentator positions may vary according to actual venue/permanent seating setup.															

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	Located at the rear of the commentator grouping so as not to disrupt the FOP view of other commentator positions.	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	A com-cam position equals 2 adjacent commentator positions.			I	J			J	I			
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions.	1 position = uses 1 seat in existing seating bowls.	-			I	J			J	I		R	IOC
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval. Space for camera positions may vary according to actual venue/permanent seating setup.	J		I	J			J	J		R	IOC
Camera Position - Other	4	30	120	270	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	Space for camera positions may vary according to actual venue/permanent seating setup.	I		I	J			J	I		R	IOC
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-					J	I	J			G	IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	See also Technology requirements.					J	I	J			G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in Back of House areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.					J	I	J			G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography	J			J	I	J	I			R	IOC
Catering																			
Catering Compound	565	1	565	850	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity. Gross area includes snow removal access.		I		F						P	
Work Areas - Catering Management	28	1	28	-		-	Enclosed space.	Assumes existing space or container.											
Organising Committee Catering Manager	-	-	-	-		Located in Venue Operations Centre.	See Venue Management - VOC.	-											
Catering Contractor	16	1	16	-		-	-	-											
Beverage Contractor	12	1	12	-	Operational work space(s).	-	-	-											
Dry, Cold and Ice Storage	38	6	228	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.											
Vehicle Staging	90	1	90	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-											
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-											
Kitchen and Preparation Area	80	1	80	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.											
Uncovered Storage	75	1	75	-	Outdoor storage of material and products.	-	Area only.	-											
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilets should be provided.											
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit.	-											
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container's). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity and level of catering activity.		I		F						P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	See Look for details.	-		I		F						P	

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Ceremonies																				
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-											P	
Ceremonies Staging	36	1	36	45	For the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule; to coordinate location of podium, procession, and recession route, and location of flagpoles.	Adjacent to or close to FOP.	Consists of coordinator work space with area for anthem storage, secure storage, preparation and dressing area; see below for additional details.	Assumes existing space or container.											P	
Manager Desk	6	1	6	-	Workspace for Manager.	-	-	-												
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenters, Medal/Flower staging, Secure medal and flag storage	22	1	22	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format. Medals storage is not required for those venues where the medal ceremony will take place at another location.												
Presenter Preparation and Dressing	4	2	8	-	A dressing and preparation area for Presenters.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-												
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	Close to FOP.	Limited use, may be shared with other space. See Sport Presentation.	-		I		F							P	
Awards Podium Storage	12	1	12	15	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	-			I	F							P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.	I		J	J				J	G	R	IOC	
Cleaning and Waste																				
Cleaning & Waste Compound	252	1	252	350	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependant upon venue capacity.											P	
Vehicle Staging	72	1	72	-	Parking area for collection vehicles which generally remain inside the venue.	-	Area only.	-												
Sorting Area	72	1	72	-	Area for sorting waste.	-	Area only.	-												
Waste & Recycle Containers	15	4	60	-	Area in front of waste and recycle bins where material is separated for containment.	-	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).												
Compactor Unit	25	Varies	Varies	-		-	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.												
Equipment Supply & Storage	15	2	30	-	Space for cleaning equipment and paper product.	-	Enclosed space.	Assumes container unit.												
Contractor Office	18	1	18	-	Space for management and workforce staging.	-	Enclosed space.	-												
Doping Control																				
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	-	J		J	J							R	IOC
Waiting Area/Reception	26	1	26	30	Area where athletes check-in and wait prior to testing.	-	-	-												
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Blood Processing Room(s)	15	Varies	Varies	20 (each)	Area where athlete blood samples are provided and sealed	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Office / Storage	12	1	12	15	Work and storage space for Doping Manager.	-	Enclosed space. Secure storage.	-												
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-	I		J	J							R	IOC

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.					F					P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of workforce pre-shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large group.	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.					F					P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.					F					P	
Information Desk	-	-	-	-	-	-	-	-											
Lost and Found	-	-	-	-	A holding area for items found in the venue.	-	-	-											
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spectators.	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	-	-	Will depend on level of service at venue.					F					P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes; located between screening/search area and spectator plaza.	Total number generally 50% of security screening positions.					F					P	
Stroller Storage	Varies	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	In close proximity to seating area.	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.					F					P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.					F					P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators					F					P	
Spectator Shade and Shelter	Varies	Varies	Varies	72 (each)	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and spectator service amenities.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.					F					P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-					F					P	
Spectator Toilets	1.5	Varies	Varies	5 (each) 6 (per 20 toilets)	Toilet units designated for spectators.	Located in FOH, close proximity to seating and spectator amenities.	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.					F					P	
Hand Wash Stations	1	Varies	Varies		A chemical unit used in the absence of potable water.	Located in FOH, close proximity to seating and spectator amenities.	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.					F					P	

HANBALL Preliminary

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Finance																				
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I			F					P		
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Generally located inside venue perimeter and outside venue perimeter.	Area only.	Quantity dependent upon venue capacity.												
Language Services																				
Work Area / Desk	20	1	20	25	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre.	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-		J	J			I				G	IOC	
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference needs.	-		J	J			I				G	IOC	
Logistics																				
Logistics Compound	-	1	Varies	650	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access. Secondary Compound Area - an additional compound area may be necessary for staging or storage of equipment that is in close proximity to FOP and/or the finish area.											P	
Logistics Centre	60	1	60	-	-	-	Enclosed space.	Assumes container units or tent.												
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-												
Team Staging/Work Area	33	1	33	-	Space for staging and a work area.	-	-	-												
Secure Storage & Equipment Sign-out	15	1	15	-	Area for storage.	-	Storage for tools.	-												
Warehouse Storage	90	1	90	-	Storage area for furniture, fixtures, and equipment (FF&E).	-	Enclosed space.	Assumes tent												
Storage Yard	75	1	75	-	Outside storage area within compound.	-	Area only.	-												
Vehicle Staging	100	1	100	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-												
Fuel Tank(s)	9	Varies	Varies	25 (each)	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.												
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.												
Material Transfer Area (MTA)	-	1	-	575	Generally for deliveries to the venue that may take place after hours or not within the logistics delivery window period.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.											P	
X-Ray Area	36	1	36	72	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.												

HANBALL Preliminary

Principles of Stakeholder Involvement:
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F-Final Decision

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Look of the Games																			
Work Area and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.					F					P	
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J					J		R	IOC
National Olympic Committee (NOC) Flags	-	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition sch	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.			J	J				J		R	IOC
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and back of locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J				J	G	R,P	IOC, IF
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals.	-											
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH).	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.		I	J	J				J	G	R	IOC, L
Backdrop - Press Conference Room	2.2 x 6	1	2.2 x 6	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F		I	I				
Medical Services																			
Athlete Medical	65	1	65	100	An area where Medical provides services to athletes competing at the venue.	Located in Back of House within the accredited athlete area.	Enclosed space.	Assumes container or existing space.	J	J	J					J		R	IF
Reception & Waiting	12	1	12	-	Area where athletes check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Physiotherapy Area(s)	8	2	16	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J					J		R	IF
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.											
Spectator Medical	50	1	50	100	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed space. 1 per 20,000 spectators.	Assumes container unit or existing space.		I	F		I	I				P	
Reception & Waiting	12	1	12	-	Area where spectators check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	12	1	12	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Triage Station	36	1	38	72	Additional space to treat minor medical needs of spectators.	Located in the Front of House.	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.		I	F		I	I				P	
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.					F	I				P	
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Area only. Paved, graveled or grass area with fence, barricade or rope enclosure.	-					F	I				P	

HANBALL Preliminary

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Merchandise																							
Office, Cash Room & Work Area	12	1	12	15		-	Enclosed space with lockable entry.	Assumes container unit or existing space.							F						P		
Storage	15	2	30	35	An area to manage the retailing of all Olympic merchandise inside the venue.	-	-	Assumes storage containers or existing space. Units provided by vendor. Quantity and location decided by vendor and OCOG.						F							P		
Program Sales Stands/Booths	1	1	1	2		-	Area only.	Gross area is per each P.O.S. and includes service area and queue.						F							P		
Merchandise Points of Sale (POS)	6	Varies	Varies	18 (each)	Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.					I		F							P		
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.					I	J	J						G	R	IOC	
Olympic Family Services																							
Olympic Family Lounge	240	1	240	500	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes tent.	I						F					I	G	G	IOC
Welcome Desk and Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-																
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.																
Staff/Volunteer Room and Storage	12	1	12	-	On-call waiting area for Protocol staff and equipment storage.	-	-																
Dining and Lounge	140	1	140	-	Area for dining and lounge.	-	-																
Preparation/Buffer set-up/Beverage Area	70	1	70	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Staff/Volunteer, Athlete, Media)																
Toilets	30	1	30	60	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	4 female, 4 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided							F							P	
Protocol flags	-	-	-	-	-	-	See Look of the Games.						J	J								R	IOC
Press Operations																							
Venue Media Centre (VMC)	350	1	350	550	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Confer	Close proximity to Press Tribune, Press Conference room, and Mixed Zone area.	Enclosed space for 150 press and 30 photographers.	Assumes tent.							F						R	IOC	
Reception & Information Desk	18	1	18	-	Welcome desk at the entrance, for information distribution.	-	-																
Storage	4	1	4	-	Equipment storage.	-	-																
Press Manager Office	12	1	12	-	Operational work space.	-	-																
Photo Manager Office	12	1	12	-	Operational work space.	-	-																
Olympic News Service (ONS) Work Room or Area	25	1	25	-	Operational work space.	-	Enclosed space.																
Info Stations	20	1	20	-	Computer stations and printers.	-	-																
Press Work Room or Area	150	1	150	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.															
Photo Work Room or Area	35	1	35	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.																
Photographers Check-in & Photo Bib Distribution	9	1	9	-	Area where photographers register and receive/return photo bibs.	-	-																
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.															
Lounge/Catering Prep	50	1	50	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-																
Toilets	1.5	6	9	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided															

HANBALL Preliminary

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Press Conference Room	90	1	90	200	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I			F						R	IOC	
Seating Area	50	1	50	-	An area for accredited press.	-	Seats and standing room.	-												
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3.6 m table, 8 chairs & step and repeat backdrop.	-												
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-												
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-												
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-				F			I	I				
Mixed Zone	20 linear mtrs.	1	20 linear mtrs.	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I		I	F						R	IOC,IF	
Press Tribune	-	-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	-	Tabled seating is fitted out with telephones, television monitors, power and other press facilities (indoor venues). For outdoor venues, these services will exist in VMC.	-												
Press Tabletop Seating	Varies	Varies	Varies	-	-	Easy access from Venue Media Centre and direct access if possible to Mixed Zone.	In an existing stadium or seating area: 1 seat wide (folding chairs at 60 cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50 cm deep tabletop per position, each position = 2 stadium seats. Temporary Stands: 1 seat (folding chairs at 60 cm spacing) x 2 rows deep of proposed seating system (normally 150 cm-170 cm deep).	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.			I	F						R	IOC,IF	
Press Seating (non-tabled)	Varies	Varies	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.			I	F						R	IOC,IF	
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided												
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-												
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	In close proximity to FOP.	Total peak number of Photographers: 80-100. 60cm wide x 90cm deep per position, multi-row areas require 60cm riser per row.	Power, Wireless and data cabling needed to photo positions on FOP.	J		I	J						R	IOC, IF	
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Normal seating areas.	-	Seating areas are generally not applicable for outdoor venues.	I		I	F						G	IOC	
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-												

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Security																				
Security Command Centre	120	1	120	145	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.											P	
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-												
Security Work Area	15	1	15	-	An area for additional security agencies.	-	-	-												
CCTV Surveillance & Video Desk	15	1	15	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-												
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.												
Radio Dispatch & Monitoring	15	1	15	-	An area for the monitoring and control of security communication and the distribution/return of radios.	-	-	-												
Work Room	50	1	50	-	Open plan of work stations designated for security personnel.	-	-	-												
Secure Storage	10	1	10	-	An area for Security equipment storage.	-	Enclosed, secure space.	-												
Dog Cage(s)	4	Varies	Varies	8 (each)	Holding area for security dogs.	-	Area only for enclosed portable units (e.g. cages).	Dependent upon Host City/Country / Risk Assessment.												F
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-												P
Briefing and Break Area / Staging Area	140	1	140	170	Area for briefing staff before and after shifts.	-	Enclosed space.	Assumes tent.												
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.												P
Vehicle Screening & Sanitisation Area	569	1	569	800	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.												P
Vehicle Queue	175	1	175	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-												
Oversized Vehicle Queue	140		140	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-												
Vehicle Sanitisation & Wanding Areas	150		75	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.												
Oversized Vehicle (Truck & Bus) Sanitisation	70		70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-												
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.												
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Enclosed space for staging and break.	-												
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the venue secure perimeter and/or venue screening area for constituents.	-	Dependent upon spectator capacity and venue design.												F, G, P
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-												
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-	I			F								P
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-	I			F								P
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.	I	I		F								P

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Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the venue secure perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.										R	IOC
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the venue secure perimeter.	Enclosed space for screening/search area positions.. Net area for each screening position will accommodate the following: 4 Wanding Stations, OR 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue. Dependent upon spectator capacity and venue design.											
Athlete / Team	18	1-2	18-36	36-72	-	BOH.	-	-				F						R	IOC
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with Athlete and/or Olympic Family.				F						G	IOC
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with TO, ENG and/or Press.				F						P	
Broadcast	18	1-2	18-36	45-90	-	BOH.	-	If possible, direct access from outside venue perimeter into Broadcast Compound.											
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	BOH; located in close proximity to Venue Broadcast Compound.	-	-											
Press and Photographer	18	1-2	18-36	36-72	-	BOH; located in close proximity to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast).	If possible, direct access from outside venue perimeter into Venue Media Centre.				F	I						
Workforce (Staff/Volunteer/Contractor/Vendor)	18	2-3	36-54	90-135	-	BOH or possibly FOH.	-	-				J	J					P	
Spectator / Sponsors	18	Varies	Varies	54	-	FOH.	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-	I			F							P
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.				F		I					P
Exception Gate	Varies	Varies	Varies	-	Access gate for designated accredited personnel.	FOH; located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.				F							P
X-ray of bags	36	Varies	Varies	72 (each)	Device for screening bags/equipment coming into the venue.	FOH and BOH.	Covered.	-				F	I						P
Venue Perimeter Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	Dependent upon spectator capacity and venue design.											
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	1m to 3m width, sometimes used as a secondary service vehicle exit point.	-											
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m each, number varies per concourse design.	-											
Workforce (Staff/Volunteer/Contractor/Vendor)	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	Size dependant upon total workforce numbers.				I	F				G	P	
Sponsor Services																			
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.				I	F						P

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Sport Operations																			
Competition Management	60	1	60	90	A work area for Sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located close to Athlete Area and field of play; may be co-located within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space.	I				F					P	
Competition Manager & Asst. Manager Desks	12	1	12	-	An area for the Manager and Assistant(s) Manager.	-	-	-											
Assigned Work Area	20	1	20	-	Open plan of work stations designated for Sport personnel.	-	-	-											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Area	18	1	18	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-											
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-											
Sport Information	20	1	20	30	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located in Athlete Area.	Enclosed space with waiting area and seating.	Includes: information boards, pigeon holes, Info & Help Desk, work area, info terminal stations & storage.	J			J						R	IF
Athlete Lounge	200	1	200	250	An area where athletes can relax at the venue while not training or competing.	Located in Athlete Area.	-	Includes: seating area, lounge, Info & Help Desk, info terminal stations.	J			J						R	IF
Athlete Dressing, Locker, Shower, Toilet	45	4	180	300	Change-room facilities to accommodate athletes at the venue during competition and training.	Located in Athlete Area.	Enclosed air-conditioned space. Number of athletes accommodated by size standard is sport specific.	Assumes container units or existing space.	J			J						R	IF
IF & Sport Meeting Room	30	1	30	45	Meeting facility at the venue for the International Federation and Competition Management.	Located in close proximity to the IF Area and Competition Management area.	Enclosed space.	Shared meeting room area between IF & Sport to serve various meeting needs.	J			J						G	IF
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	1 competition hall for preliminary rounds and 1 competition hall for quarter finals and finals will be required to hold the Olympic competition.	Reference should be made to IHF guidelines for all FOP technical requirements.											
Playing Surface Dimensions or Area	800	1	800	1200	-	-	40 x 20 = 800 800 + 20 x 20 = 1200 total area	-	F			I						R	IF
Vertical Height Requirement	7m	-	7m	-	-	-	A minimum height of 7 metres is necessary.	-	F			I	I					R	IF
Surface	-	-	-	-	-	-	PVC or wooden; see IHF Technical Requirements.	-	J			J	I					R	IF
Camera Positions - IF /Team	3.5	2	7	-	-	In close proximity to Broadcast and athlete seating area.	-	-	I			F						R	IF
Sports Lighting - Technical	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

HANBALL Preliminary

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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	-	-	-												
Warm-up Surface Dimensions or Area	800	2	1600	-	-	Adjacent or in close proximity to Field of Play.	See FOP.	-	J		J			I	J			R	IF	
Vertical Height Requirement	7m	-	7m	-	-	-	-	-	J		J	I			J			R	IF	
Surface	-	-	-	-	-	-	PVC or wooden; see IHF Technical Requirements.	-	J		J	I			J			R	IF	
Athlete / Team Seating	-	-	-	-	A designated seating area for athletes.	-	-	-	J	I	J				J			R	IOC,IF	
Same Sport	-	Varies	-	-	-	-	-	-	J	I	J				I			R	IOC,IF	
Different Sport	-	Varies	-	-	-	-	-	-	I	I	F				I			R	IOC	
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	May be required for Sport Staff use. Quantity varies according to athlete numbers.					F						P	
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	Required if FOP is not located near Athlete Area.	Assumes temporary units. Quantity varies according to athlete numbers.					F						P	
International Federation																				
IF Area	70	1	70	80	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located in close proximity to accredited seating areas.	Enclosed space.	Assumes container units or existing space.	I		I	F							R	IF
IF President's Office	15	1	15	-	-	-	-	-	I		I	F							R	IF
IF Secretary - General/Executive Director's Office	15	1	15	-	-	-	-	-	I			F							G	IF
Reception, Secretariat, Waiting & Work Area	40	1	40	-	-	-	Enclosed spaces, two areas 20 square metres each.	-	I			F							G	IF
Meeting Room	-	-	-	-	Area for meetings.	-	See IF & Sport meeting room.	-												
Jury & Appeals Room	20	1	20	30	This space is utilised for the resolution of protests and appeals after competition.	-	Enclosed space.	Assumes container units or existing space.	I			F							R	IF
Lounge - International Technical Officials	80	1	80	85	A rest area for officials.	-	Enclosed space.	Assumes container units or existing space.	J		J								G	IF
Officials Locker Room, Shower, Toilet	25	2	50	100	A change area for officials.	-	Enclosed space.	-	I			F							R	IF
Technical Delegates Office & Work Area	15	1	15	20	Office area for Technical Delegates.	-	Enclosed space. 2 Technical Delegates.	-	I	I	F				I				R	IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I	J	J				J				R	IOC,IF
Sport Presentation																				
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.												
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-				F								P
Announcer Position	3	1	3	-	-	-	-	-				F								P
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space, consisting of work area, green room, entertainer staging and dressing and prop storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.					F							P

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Technology Operations																			
Technology Help Desk	15	1	15	18	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support staff & manager.	-				F						P	
Venue Technology Operations (VTO)	25	1	25	32	OCOG Technology Operations area. Operational work space for entire Venue Technology team, including Partners & contractors.	Adjacent to or within Venue Operations Centre (VOC).	Medium security - lockable room. Air-conditioned as office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	-				F					G	P	
OCOG Venue Technology Work Area	-	1	-	-	Work space for Venue Technology Manager, Assistant Venue Technology Manager, Technology Workforce Manager and associated volunteer(s).	-	-	Work space size may be dependent upon workforce per shift.											
AV Contractor Work Area	-	1	-	-	Work space for AV contractors/Technicians.	-	-	Work space size may be dependent upon workforce per shift.											
IT Provider Work Area	-	1	-	-	Work space for IT workforce and "home base" for IT volunteers.	-	-	Work space size may be dependent upon workforce per shift.											
Reprographic Provider Work Area	-	1	-	-	Work space for reprographic contractors/technicians	-	-	Work space size may be dependent upon workforce per shift.											
Mobile Phone Provider Work Area	-	1	-	-	Workspace for mobile phone provider.	-	-	Work space size may be dependent upon workforce per shift. Charging area for Venue Operations workforce phones may be required.											
Wired Communications Provider Work Area	-	1	-	-	Work space for Wired Communications contractors/technicians.	-	-	Work space size may be dependent upon workforce per shift.											
Timing & Scoring/OVR Provider Work Area	-	1	-	-	Work space for OVR/Timing & Scoring contractors/technicians.	-	-	May not be required if adequate working space is allocated in OVR room.											
Radio Distribution Room (RDR)	15	1	15	18	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E and workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).	I			F						P	
Information Technology																			
Computer Equipment Room (CER)	20	1	20	25	Location for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.	I			F					G	P	
Data Local Area Network (LAN) Management Room & Store	25	1	25	32	LAN monitoring room & associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational staff & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces.				F					G	P	

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Telecommunication & Audio Visual																				
Telecomm. Equipment Room (TER) Primary	36	1	36	45	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	Raised flooring is preferable for cabling distribution, but not essential.		I		F							P	
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.		I		F							P	
Telecomm. Operations & Store	25	1	25	32	Operational space for Telecommunications technical staff and associated storage for spare parts.	Adjacent to TER.	As TER with adequate FF&E to support operational staff & storage.	If located adjacent to TER, power supply boards, UPS units & A/C services can be common for both spaces.		I		F							P	
Audio Control Positions	-	-	-	-	-	-	-	-				F						G	P	
Venue	4	1	4	8	Area within Sport Production, location for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Production. Can be on FOP, in stands or in a booth with view to FOP.	High Security. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	Storage for country anthems.												
Press Conference	4	1	4	8	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), air-conditioned, waterproof. Work space & FF&E for operator.	PA system may also be used for Competition Draw if draw is held in Press Conference room.												
Warm-Up Area	2	1	2	4	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Within Warm-up area for Athletes.	Standard/mains power & FF&E.	-												
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-												
Workforce Break/Dining	2	Varies	Varies	-	Area within Staff Break/Training room where audio control equipment is installed to facilitate meetings/training of large numbers of staff.	Workforce break/dining areas.	Standard/mains power & FF&E.	-												
Video Board Control	4	1	4	8	Location of video control for video board or video projection system. Operations integral with those of Sport Production.	Ideally with Sport Production. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	-				F						G	P	
Wired Communications Control	2	1	2	4	Location of wired communications master control station and support technician. System essential to operations of both Sport Production and Results/FOP management.	Near to or within Sport Production is preferable. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location is located outdoors. Good cable access to FOP, OVR Room, Sport Production, Broadcast Graphics Room & Results Printing required. Workspace & FF&E for one technician, control equipment, spare parts and containers/boxes for equipment.	-				F						G	P	
Temporary PA equipment Room	2 min	1	2 min	4 min.	Temporary location for installation of PA active equipment (amplifiers etc) for venue PA system.	In existing PA equipment room, if applicable. May be located under venue seating/tribunes if existing room not available.	High Security. Fully redundant power (mains & standby generator) to equipment. Good cable access to speaker location and PA/Audio Control position required. Equipment installed in racks. Each rack set is 1000H x 600W x 600 D maximum.	Number of racks will depend on size of system deployed. Generally venues with large geographic area (outdoor) require larger installation and therefore more racks of amplifier equipment.					F						P	

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Timing, Scoring and Results Operations																			
Results Data Entry Position	-	-	-	-	Location(s) for event results and/or statistics data entry during competition.	As noted below.	High Security. Fully redundant power (mains & generator) with UPS to all results data entry equipment/workstations. Space & FF&E for all data entry personnel & results management staff.	Adequate weather (rain/sun) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
Field of Play - Statistics Tables	2	2	4	8	Areas/positions for statistics calling & data entry into OVR system.	Positions located at either end of FOP with sport statisticians.	Cable pathway to Technical Table.	May occur as a position on the FOP, or in a room with a view to the FOP.											
Field of Play - Technical Table	3	1	3	6	Area/position for results data entry.	Position located at Technical Table on FOP with sport results & sport officials.	Cable pathway to Statistics Tables, Official Table & OVR Room.	Generally occurs Back of House, in Sport location.											
Timing and Scoring Position	-	-	-	-	Location(s) for event timing & scoring personnel & equipment during competition.	Sport Specific. However, all locations must have view to FOP	High Security Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards, ball speed guns & OVR room. Space & FF&E for operators and equipment. Adequate weather (rain/sun) protection for equipment/workstations to be provided.	-	I	I	I	F						R	IF, Swatch
Field of Play - Official Table	2	1	2	4	-	Position located on FOP with sport officials.	Cable pathway to Technical Table & sport specific scoreboards.	-											
Control Room	1.5/pp	1	1.5/pp	3/pp	-	-	-	-											
On Venue Results (OVR)	-	-	-	-	Location is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	Easy access to FOP critical for technical and results staff.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Space & FF&E required for high density of computer workstations, racks for servers and working space for technicians, operators and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or venues where two sports occur concurrently will require more space for additional OVR equipment.		I	F							P	
OVR Provider Work Area	30	1	30	38	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO/CIS/PRD etc).	Ideally adjacent to IT provider work area.	-	-											
IT Provider Work Area	20	1	20	25	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-											
Scoreboard Control	-	-	-	-	Location of scoreboard control operations. Operations integral with those of Sport Production, data provided from OVR System. Space for both Control and Interface workstations & 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.		I	F						G	P	
Scoreboard Control	2	1	2	4	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator & workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-											
Scoreboard Interface	2	1	2	4	Area for interface equipment (PC workstations) linking OVR system & Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-											

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Results Printing (PRD)	60	1	60	75	Location for hard copy results production & distribution. Location of high intensity work involving many staff preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area & position for the Print Distribution Workstation (IDS interface) equipment and operator.	Near/adjacent to Press Workroom, access to Press Tribunes, Broadcast Commentary Positions, Sport Information Desk, Doping & Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specification. Space & FF&E required for equipment and operational staff as well as space for 1 x pallet of paper to support print/copy operations.	-	I	I	I	F						R	IF, Swatch
TV Graphics Interface	3	1	3	6	Location where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operators & good cable access to OVR room.	-				I		F			G	P	
Technology Storage																			
Technology General Storage	15	1	15	18	Location for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F					G	P	
IT Bulk Storage	30	1	30	38	Storage area for all spare IT equipment & associated boxes/containers.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to IT provider at all times.				F					G	P	
Reprographic Primary Storage Area	12	1	12	15	Primary storage/technical area in-venue for reprographic provider. Storage for spare parts, additional devices and consumables serving primarily Results Printing Operations.	In venue location adjacent to, or within Results Printing Room.	High Security - lockable. Standard office environment with standard power. Workspace & FF&E for one technician.	-	I		F						G	P	
Reprographic Bulk Storage Area	15	1	15	18	Storage area for bulk paper allocated to venue (multiple pallets).	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of paper required to support venue operations.				F					G	P	
Timing and Scoring Workshop	10	1	10	13	In venue storage & workshop for timing equipment, spare parts & small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.	-	I		F						G	P	
Timing & Scoring Bulk Store	30	1	30	38	Storage area for large crates & containers used for scoreboards and bulk equipment. Must be accessible to OVR provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of Timing & Scoring equipment deployed to venue. May be combined with Timing & Scoring Workshop if location & size of space meet requirements for venue.	I		F						G	P	
Audio Visual Bulk Store	30	1	30	38	Storage area for large crates & containers used for video boards, PA equipment & TV boxes. Must be accessible to Video/Public address provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of audio/video equipment deployed to venue.				F					G	P	
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closet. CCFs are to be installed in locations that allow for easy access for service technicians and which allow for easy cable access both from TER room and to user device locations.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Work Room.	High Security - lockable and weatherproof. May require fan or dedicated A/C depending on room location and/or configuration. Fully redundant power (mains and generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.	I		F							P	
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of power from data/voice and audio-visual cabling.	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in an manner which allows for easy access and repair/replacement. Legacy installations are to be installed as permanent while temporary (overlay) should be installed using methods which are easily installed and removed minimising potential damage to existing venue.				F						P	
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.	-	-	-											
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.	-	-	-											
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.	-	-	-											

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CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	-												
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	-												
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-												
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-												
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-												
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-												
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-												
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing and Scoring/OVR contractor.	I			F							P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.												
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F							P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the videoboard. Required for outdoor venues where the videoboard cannot be suspended from ceiling structure.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each videoboard.												
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Production on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F						G	P	
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to/from audio/PA amplification system and/or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend PA speakers from venue ceiling structure.	-	-	-												
Mobile Phone Infrastructure (antenna)	-	Varies	-	-	Infrastructure required to support installation of additional radio antenna & mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to/from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.	I			F						G	P	

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Ticketing																			
Ticket Box Office	40	1	40	100	An area at the venue where Olympic tickets are sold.	Adjacent to the secure perimeter; near the spectator entry point of the venue	Gross area includes internal & external queue.	Assumes container unit with disabled access to internal and external service window. Dependant upon venue layout and footprint, spectator access point locations.										P	
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	15	1	15	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s)	15	1	15	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	25	1	25	50	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.										P	
Driver Staging	80	1	80	150	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.										P	
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside venue secure perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	20	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-										P	
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from Host City, based on vehicle/bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J							P	
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J							P	
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F						P	
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.				F						G	IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.				F						G	IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.			I	F						G	IOC
Spectator and Staff Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				F						P	
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F						P	
Accessible	-	-	-	-	-	-	-	Part of Spectator total.				F						P	
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Surface areas paved or gravel.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have drop-off in close proximity to accredited entry point and then driver will park.			I	F						P	
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.				F						P	
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.				F						P	
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-			J	J						P	
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes vehicle circulation.				F						P	
Emergency Services	-	-	-	50 (each)	-	Generally located inside the Secure Venue Perimeter.	-	Includes vehicle circulation.				F						P	

HANBALL Preliminary

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Venue Development																				
Site Management Compound	503	1	503	650	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Dependent upon venue footprint, extent of temporary works and number of contractors.										P		
Site Management Area	60	1	60	-	-	-	Enclosed space.	-												
Site Manager & Assistant Site Manager(s) Work Area	12	1	12	-	Work and meeting area for the Site Manager and Assistant Site Manager.	-	-	-												
Site Administration Desk & Work Area	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-	-												
Response Team & Vendor Staging	24	1	24	-	On-site permanent and temporary facilities for specialty staff and general labor crew to be on-call.	-	-	-												
Secure Storage - Site Management	12	1	12	-	Area for storage.	-	-	-												
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.	-	Enclosed space. Area for office, staging and a secure storage area.	Assumes container units or existing space. Contractor usually installs container units at their own cost.												
Sign/Look Staging, Work Space/Secure Storage	50	1	50	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	-	Assumes container unit or existing space.												
Material Warehouse/Construction Work Space	80	1	80	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	-	Enclosed space.	Assumes tent or canopy with 2 side walls. Area for carpentry, painting and general construction. Storage for non-weather proof materials.												
Vendor Secure Storage	60	1	60	-	Area for containers, usually provided by the various temporary construction sub-contractors.	-	Enclosed space.	Assumes container units or existing space.												
Materials Staging Area	50	1	50	-	Area for the off-loading and loading of bulk construction materials.	-	Area only.	-												
Exterior Storage Area	50	1	50	-	Outdoor storage of material and products.	-	Area only.	Weatherproof area for large and bulk materials.												
Vehicle Staging	90	1	90	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	-	Area only.	Service, Repair & Specialty vehicles.												
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.	I			F							P	
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.	-	I			F							P	
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.	I			F							P	
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.												
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-	-												

HANBALL Preliminary

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Venue Management																			
Venue Operations Centre (VOC)	60	1	60	90	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Dependent upon venue capacity and venue layout.										P	
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-					F						
Assigned Desks	20	1	20	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Space and Storage	18	1	18	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	40	1	40	50	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.					F					P	
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	24	1	24	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	8-10 people.											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	150	1	150	180	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre.	Enclosed space.	Assumes existing space or tent. Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.					F					P	
Workforce																			
Workforce Area	150	1	150	180	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.					F					P	
Check-In Area	96	1	96	-	Area to log-in venue staff and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Area	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	335	1	335	400	The space where workforce meals are served and where workforce can break during their shift.	A location that will provide easy access to all workforce for breaks and meals; will vary according to venue layout/size.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon venue workforce numbers.					F					P	
END OF DOCUMENT																			

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Accreditation																								
Venue Accreditation Office	50	1	50	125	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.											P	-				
Day Pass Issue & Problem Resolution Desk	15	1	15	-																				
Work Area	15	1	15	-																				
Manager Desk or Office & Storage	12	1	12	-																				
Waiting Area	8	1	8	-																				
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	-	Enclosed space. Required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.					F						P	-				
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Broadcast																								
Broadcast Compound	-	1	-	3000	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements.																
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Gross area includes snow removal access. Assumes container unit.																
Broadcast Manager Office	12	1	12	-		-	-	-	-															
Work Room, Assigned and Unassigned Desks	48	1	48	-		-	-	-	-															
Technical Operations Centre	40	1	40	100	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Broadcast Catering	140	1	140	180	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	-																
Kitchen and Prep	20	1	20	-		-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.															
Buffet Line and Dining	120	1	120	-		-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.															
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements. Located in temporary structure. Assumes container/trailer unit or tent.																
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	-																
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-																
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters. Located in temporary structure. Assumes container/trailer unit or tent.																
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	-																
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-																
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.																
Toilets	1.5	8	12	36	Toilet units designated for broadcast personnel.	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Commentator Control Room (CCR)	60	1	60	75	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in close proximity to commentator position area.	Enclosed space with incoming television cable.	Assumes existing space or container unit.																
Broadcast Information Office (BIO)	20	1	20	25	Space for broadcast management and team meetings.	Located near commentator positions and CCR	Enclosed space.	Assumes existing space or container unit.																
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-																
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J													
Mixed Zone	25 linear mtrs.	1	25 linear mtrs.	170	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Adjacent to the FOP.	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I	I	J													
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in seating areas with view to FOP and covered when possible.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Outdoor commentator positions should have the option of cover for protection from various weather conditions (e.g. sun, rain). Space for commentator positions may vary according to actual venue/permanent seating setup.																

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Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	Located at the rear of the commentator grouping so as not to disrupt the FOP view of other commentator positions.	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	A com-cam position equals 2 adjacent commentator positions.			I	J			J	I			
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions.	1 position = uses 1 seat in existing seating bowls.	-			I	J			J	I		R	IOC
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval. Space for camera positions may vary according to actual venue/permanent seating setup.	J		I	J			J	J		R	IOC
Camera Position - Other	4	30	120	270	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	Space for camera positions may vary according to actual venue/permanent seating setup.	I		I	J			J	I		R	IOC
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-					J	I	J			G	IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	See also Technology requirements.					J	I	J			G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in Back of House areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.					J	I	J			G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography	J			J	I	J	I			R	IOC
Catering																			
Catering Compound	565	1	565	850	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity. Gross area includes snow removal access.		I		F						P	
Work Areas - Catering Management	28	1	28	-		-	Enclosed space.	Assumes existing space or container.											
Organising Committee Catering Manager	-	-	-	-		Located in Venue Operations Centre.	See Venue Management - VOC.	-											
Catering Contractor	16	1	16	-		-	-	-											
Beverage Contractor	12	1	12	-	Operational work space(s).	-	-	-											
Dry, Cold and Ice Storage	38	6	228	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.											
Vehicle Staging	90	1	90	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-											
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-											
Kitchen and Preparation Area	80	1	80	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.											
Uncovered Storage	75	1	75	-	Outdoor storage of material and products.	-	Area only.	-											
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilets should be provided.											
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit.	-											
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container's). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity and level of catering activity.		I		F						P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	See Look for details.	-		I		F						P	

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Ceremonies																				
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-											P	
Ceremonies Staging	36	1	36	45	For the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule; to coordinate location of podium, procession, and recession route, and location of flagpoles.	Adjacent to or close to FOP.	Consists of coordinator work space with area for anthem storage, secure storage, preparation and dressing area; see below for additional details.	Assumes existing space or container.											P	
Manager Desk	6	1	6	-	Workspace for Manager.	-	-	-												
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenters, Medal/Flower staging, Secure medal and flag storage	22	1	22	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format. Medals storage is not required for those venues where the medal ceremony will take place at another location.												
Presenter Preparation and Dressing	4	2	8	-	A dressing and preparation area for Presenters.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-												
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	Close to FOP.	Limited use, may be shared with other space. See Sport Presentation.	-		I		F							P	
Awards Podium Storage	12	1	12	15	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	-			I	F							P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.	I		J	J				J	G	R	IOC	
Cleaning and Waste																				
Cleaning & Waste Compound	252	1	252	350	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependant upon venue capacity.					F						P	
Vehicle Staging	72	1	72	-	Parking area for collection vehicles which generally remain inside the venue.	-	Area only.	-												
Sorting Area	72	1	72	-	Area for sorting waste.	-	Area only.	-												
Waste & Recycle Containers	15	4	60	-	Area in front of waste and recycle bins where material is separated for containment.	-	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).												
Compactor Unit	25	Varies	Varies	-	Area in front of waste and recycle bins where material is separated for containment.	-	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.												
Equipment Supply & Storage	15	2	30	-	Space for cleaning equipment and paper product.	-	Enclosed space.	Assumes container unit.												
Contractor Office	18	1	18	-	Space for management and workforce staging.	-	Enclosed space.	-												
Doping Control																				
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	-	J		J	J							R	IOC
Waiting Area/Reception	26	1	26	30	Area where athletes check-in and wait prior to testing.	-	-	-												
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Blood Processing Room(s)	15	Varies	Varies	20 (each)	Area where athlete blood samples are provided and sealed	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Office / Storage	12	1	12	15	Work and storage space for Doping Manager.	-	Enclosed space. Secure storage.	-												
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-	I		J	J							R	IOC

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Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.					F					P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of workforce pre-shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large group.	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.					F					P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.					F					P	
Information Desk	-	-	-	-	-	-	-	-											
Lost and Found	-	-	-	-	A holding area for items found in the venue.	-	-	-											
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spectators.	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	-	-	Will depend on level of service at venue.					F					P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes; located between screening/search area and spectator plaza.	Total number generally 50% of security screening positions.					F					P	
Stroller Storage	Varies	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	In close proximity to seating area.	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.					F					P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.					F					P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators					F					P	
Spectator Shade and Shelter	Varies	Varies	Varies	72 (each)	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and spectator service amenities.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.					F					P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-					F					P	
Spectator Toilets	1.5	Varies	Varies	5 (each) 6 (per 20 toilets)	Toilet units designated for spectators.	Located in FOH, close proximity to seating and spectator amenities.	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.					F					P	
Hand Wash Stations	1	Varies	Varies	20	A chemical unit used in the absence of potable water.	Located in FOH, close proximity to seating and spectator amenities.	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.					F					P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Finance																				
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I		F						P		
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Generally located inside venue perimeter and outside venue perimeter.	Area only.	Quantity dependent upon venue capacity.												
Language Services																				
Work Area / Desk	20	1	20	25	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre.	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-		J	J			I				G	IOC	
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference needs.	-		J	J			I				G	IOC	
Logistics																				
Logistics Compound	-	1	Varies	650	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access. Secondary Compound Area - an additional compound area may be necessary for staging or storage of equipment that is in close proximity to FOP and/or the finish area.											P	
Logistics Centre	60	1	60	-	-	-	Enclosed space.	Assumes container units or tent.												
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-												
Team Staging/Work Area	33	1	33	-	Space for staging and a work area.	-	-	-												
Secure Storage & Equipment Sign-out	15	1	15	-	Area for storage.	-	Storage for tools.	-												
Warehouse Storage	90	1	90	-	Storage area for furniture, fixtures, and equipment (FF&E).	-	Enclosed space.	Assumes tent												
Storage Yard	75	1	75	-	Outside storage area within compound.	-	Area only.	-												
Vehicle Staging	100	1	100	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-												
Fuel Tank(s)	9	Varies	Varies	25 (each)	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.												
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.												
Material Transfer Area (MTA)	-	1	-	575	Generally for deliveries to the venue that may take place after hours or not within the logistics delivery window period.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.					F						P	
X-Ray Area	36	1	36	72	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.												

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Look of the Games																			
Work Area and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.					F					P	
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J					J		R	IOC
National Olympic Committee (NOC) Flags	-	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition sch	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.			J	J				J		R	IOC
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and back of locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J				J	G	R,P	IOC, IF
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals.	-											
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH).	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.		I	J	J				J	G	R	IOC, L
Backdrop - Press Conference Room	2.2 x 6	1	2.2 x 6	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F		I	I				
Medical Services																			
Athlete Medical	65	1	65	100	An area where Medical provides services to athletes competing at the venue.	Located in Back of House within the accredited athlete area.	Enclosed space.	Assumes container or existing space.	J	J	J					J		R	IF
Reception & Waiting	12	1	12	-	Area where athletes check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Physiotherapy Area(s)	8	2	16	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J					J		R	IF
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.											
Spectator Medical	50	1	50	100	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed space. 1 per 20,000 spectators.	Assumes container unit or existing space.		I	F		I	I				P	
Reception & Waiting	12	1	12	-	Area where spectators check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	12	1	12	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Triage Station	36	1	38	72	Additional space to treat minor medical needs of spectators.	Located in the Front of House.	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.		I	F		I	I				P	
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.					F	I				P	
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Area only. Paved, graveled or grass area with fence, barricade or rope enclosure.	-					F	I				P	

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Merchandise																							
Office, Cash Room & Work Area	12	1	12	15		-	Enclosed space with lockable entry.	Assumes container unit or existing space.													P		
Storage	15	2	30	35	An area to manage the retailing of all Olympic merchandise inside the venue.	-	-	Assumes storage containers or existing space. Units provided by vendor. Quantity and location decided by vendor and OCOG.						F							P		
Program Sales Stands/Booths	1	1	1	2		-	Area only.	Gross area is per each P.O.S. and includes service area and queue.						F							P		
Merchandise Points of Sale (POS)	6	Varies	Varies	18 (each)	Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.					I		F							P		
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.						I	J	J					G	R	IOC	
Olympic Family Services																							
Olympic Family Lounge	240	1	240	500	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes tent.	I											I	G	G	IOC
Welcome Desk and Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-																
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.																
Staff/Volunteer Room and Storage	12	1	12	-	On-call waiting area for Protocol staff and equipment storage.	-	-																
Dining and Lounge	140	1	140	-	Area for dining and lounge.	-	-																
Preparation/Buffer set-up/Beverage Area	70	1	70	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Staff/Volunteer, Athlete, Media)																
Toilets	30	1	30	60	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	4 female, 4 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided							F							P	
Protocol flags	-	-	-	-	-	-	See Look of the Games.						J	J								R	IOC
Press Operations																							
Venue Media Centre (VMC)	600	1	600	800	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Confer	Close proximity to Press Tribune, Press Conference room, and Mixed Zone area.	Enclosed space for 150 press and 30 photographers.	Assumes tent.							F						R	IOC	
Reception & Information Desk	24	1	24	-	Welcome desk at the entrance, for information distribution.	-	-																
Storage	6	1	6	-	Equipment storage.	-	-																
Press Manager Office	12	1	12	-	Operational work space.	-	-																
Photo Manager Office	12	1	12	-	Operational work space.	-	-																
Olympic News Service (ONS) Work Room or Area	35	1	35	-	Operational work space.	-	Enclosed space.																
Info Stations	28	1	28	-	Computer stations and printers.	-	-																
Press Work Room or Area	240	1	240	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.															
Photo Work Room or Area	50	1	50	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.																
Photographers Check-in & Photo Bib Distribution	12	1	12	-	Area where photographers register and receive/return photo bibs.	-	-																
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.															
Lounge/Catering Prep	100	1	100	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-																
Toilets	1.5	8	12	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided															

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Press Conference Room	150	1	150	280	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I			F						R	IOC	
Seating Area	100	1	100	-	An area for accredited press.	-	Seats and standing room.	-												
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3.6 m table, 8 chairs & step and repeat backdrop.	-												
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-												
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-												
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-				F			I	I				
Mixed Zone	20 linear mtrs.	1	20 linear mtrs.	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I		I	F						R	IOC,IF	
Press Tribune	-	-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	-	Tabled seating is fitted out with telephones, television monitors, power and other press facilities (indoor venues). For outdoor venues, these services will exist in VMC.	-												
Press Tabletop Seating	Varies	Varies	Varies	-	-	Easy access from Venue Media Centre and direct access if possible to Mixed Zone.	<u>In an existing stadium or seating area:</u> 1 seat wide (folding chairs at 60 cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50 cm deep tabletop per position, each position = 2 stadium seats. <u>Temporary Stands:</u> 1 seat (folding chairs at 60 cm spacing) x 2 rows deep of proposed seating system (normally 150 cm-170 cm deep).	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.			I	F					R	IOC,IF		
Press Seating (non-tabled)	Varies	Varies	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.			I	F						R	IOC,IF	
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided												
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-												
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	In close proximity to FOP.	Total peak number of Photographers: 80-100. 60cm wide x 90cm deep per position, multi-row areas require 60cm riser per row.	Power, Wireless and data cabling needed to photo positions on FOP.	J		I	J						R	IOC, IF	
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Normal seating areas.	-	Seating areas are generally not applicable for outdoor venues.	I		I	F						G	IOC	
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-												

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Security																				
Security Command Centre	120	1	120	145	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.											P	
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-												
Security Work Area	15	1	15	-	An area for additional security agencies.	-	-	-												
CCTV Surveillance & Video Desk	15	1	15	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-												
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.												
Radio Dispatch & Monitoring	15	1	15	-	An area for the monitoring and control of security communication and the distribution/return of radios.	-	-	-												
Work Room	50	1	50	-	Open plan of work stations designated for security personnel.	-	-	-												
Secure Storage	10	1	10	-	An area for Security equipment storage.	-	Enclosed, secure space.	-												
Dog Cage(s)	4	Varies	Varies	8 (each)	Holding area for security dogs.	-	Area only for enclosed portable units (e.g. cages).	Dependent upon Host City/Country / Risk Assessment.							F					
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-												P
Briefing and Break Area / Staging Area	140	1	140	170	Area for briefing staff before and after shifts.	-	Enclosed space.	Assumes tent.					J	J						
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.					J	J						P
Vehicle Screening & Sanitisation Area	569	1	569	800	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.							I	F				P
Vehicle Queue	175	1	175	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-												
Oversized Vehicle Queue	140		140	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-												
Vehicle Sanitisation & Wanding Areas	150		75	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.												
Oversized Vehicle (Truck & Bus) Sanitisation	70		70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-												
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.												
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Enclosed space for staging and break.	-												
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the venue secure perimeter and/or venue screening area for constituents.	-	Dependent upon spectator capacity and venue design.									F		G	P
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-												
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-	I		F									P
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-	I		F									P
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.	I	I	F									P

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the venue secure perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.										R	IOC
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the venue secure perimeter.	Enclosed space for screening/search area positions.. Net area for each screening position will accommodate the following: 4 Wanding Stations, OR 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue. Dependent upon spectator capacity and venue design.											
Athlete / Team	18	1-2	18-36	36-72	-	BOH.	-	-				F						R	IOC
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with Athlete and/or Olympic Family.				F						G	IOC
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with TO, ENG and/or Press.				F						P	
Broadcast	18	1-2	18-36	45-90	-	BOH.	-	If possible, direct access from outside venue perimeter into Broadcast Compound.											
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	BOH; located in close proximity to Venue Broadcast Compound.	-	-											
Press and Photographer	18	1-2	18-36	36-72	-	BOH; located in close proximity to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast).	If possible, direct access from outside venue perimeter into Venue Media Centre.				F	I						
Workforce (Staff/Volunteer/Contractor/Vendor)	18	2-3	36-54	90-135	-	BOH or possibly FOH.	-	-				J	J					P	
Spectator / Sponsors	18	Varies	Varies	54	-	FOH.	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-	I			F						P	
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.				F		I				P	
Exception Gate	Varies	Varies	Varies	-	Access gate for designated accredited personnel.	FOH; located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.				F						P	
X-ray of bags	36	Varies	Varies	72 (each)	Device for screening bags/equipment coming into the venue.	FOH and BOH.	Covered.	-				F	I					P	
Venue Perimeter Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	Dependent upon spectator capacity and venue design.											
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	1m to 3m width, sometimes used as a secondary service vehicle exit point.	-											
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m each, number varies per concourse design.	-											
Workforce (Staff/Volunteer/Contractor/Vendor)	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	Size dependant upon total workforce numbers.				I	F				G	P	
Sponsor Services																			
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.				I	F					P	

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Sport Operations																			
Competition Management	60	1	60	90	A work area for Sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located close to Athlete Area and field of play; may be co-located within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space.	I				F					P	
Competition Manager & Asst. Manager Desks	12	1	12	-	An area for the Manager and Assistant(s) Manager.	-	-	-											
Assigned Work Area	20	1	20	-	Open plan of work stations designated for Sport personnel.	-	-	-											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Area	18	1	18	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-											
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-											
Sport Information	20	1	20	30	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located in Athlete Area.	Enclosed space with waiting area and seating.	Includes: information boards, pigeon holes, Info & Help Desk, work area, info terminal stations & storage.	J			J					J	R	IF
Athlete Lounge	200	1	200	250	An area where athletes can relax at the venue while not training or competing.	Located in Athlete Area.	-	Includes: seating area, lounge, Info & Help Desk, info terminal stations.	J			J					J	R	IF
Athlete Dressing, Locker, Shower, Toilet	45	4	180	300	Change-room facilities to accommodate athletes at the venue during competition and training.	Located in Athlete Area.	Enclosed air-conditioned space. Number of athletes accommodated by size standard is sport specific.	Assumes container units or existing space.	J			J					J	R	IF
IF & Sport Meeting Room	30	1	30	45	Meeting facility at the venue for the International Federation and Competition Management.	Located in close proximity to the IF Area and Competition Management area.	Enclosed space.	Shared meeting room area between IF & Sport to serve various meeting needs.	J			J						G	IF
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	1 competition hall for preliminary rounds and 1 competition hall for quarter finals and finals will be required to hold the Olympic competition.	Reference should be made to IHF guidelines for all FOP technical requirements.											
Playing Surface Dimensions or Area	800	1	800	1200	-	-	40 x 20 = 800 800 + 20 x 20 = 1200 total area	-	F			I		I				R	IF
Vertical Height Requirement	-	-	-	-	-	-	-	-	F			I	I					R	IF
Surface	-	-	-	-	-	-	PVC or wooden; see IHF Technical Requirements.	-	J			J	I				J	R	IF
Camera Positions - IF /Team	3.5	2	7	-	-	In close proximity to Broadcast and athlete seating area.	-	-	I			F						R	IF
Sports Lighting - Technical	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

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Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	-	-	-											
Warm-up Surface Dimensions or Area	800	2	1600	-	-	Adjacent or in close proximity to Field of Play.	See FOP.	-	J		J			I	J			R	IF
Vertical Height Requirement	7m	-	7m	-	-	-	-	-	J		J	I			J			R	IF
Surface	-	-	-	-	-	-	PVC or wooden; see IHF Technical Requirements.	-	J		J	I			J			R	IF
Athlete / Team Seating	-	-	-	-	A designated seating area for athletes.	-	-	-	J	I	J				J			R	IOC,IF
Same Sport	-	Varies	-	-	-	-	-	-	J	I	J				I			R	IOC,IF
Different Sport	-	Varies	-	-	-	-	-	-	I	I	F				I			R	IOC
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	May be required for Sport Staff use. Quantity varies according to athlete numbers.					F						P
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	Required if FOP is not located near Athlete Area.	Assumes temporary units. Quantity varies according to athlete numbers.					F						P
International Federation																			
IF Area	70	1	70	80	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located in close proximity to accredited seating areas.	Enclosed space.	Assumes container units or existing space.	I		I	F						R	IF
IF President's Office	15	1	15	-	-	-	-	-	I		I	F						R	IF
IF Secretary - General/Executive Director's Office	15	1	15	-	-	-	-	-	I		F							G	IF
Reception, Secretariat, Waiting & Work Area	40	1	40	-	-	-	Enclosed spaces, two areas 20 square metres each.	-	I		F							G	IF
Meeting Room	-	-	-	-	Area for meetings.	-	See IF & Sport meeting room.	-											
Jury & Appeals Room	20	1	20	30	This space is utilised for the resolution of protests and appeals after competition.	-	Enclosed space.	Assumes container units or existing space.	I		F							R	IF
Lounge - International Technical Officials	80	1	80	85	A rest area for officials.	-	Enclosed space.	Assumes container units or existing space.	J		J							G	IF
Officials Locker Room, Shower, Toilet	25	2	50	100	A change area for officials.	-	Enclosed space.	-	I		F							R	IF
Technical Delegates Office & Work Area	15	1	15	20	Office area for Technical Delegates.	-	Enclosed space. 2 Technical Delegates.	-	I	I	F				I			R	IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I	J	J				J			R	IOC,IF
Sport Presentation																			
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.											
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-			F								P
Announcer Position	3	1	3	-	-	-	-	-			F								P
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space, consisting of work area, green room, entertainer staging and dressing and prop storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.					F						P

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Technology Operations																			
Technology Help Desk	15	1	15	18	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support staff & manager.	-				F						P	
Venue Technology Operations (VTO)	25	1	25	32	OCOG Technology Operations area. Operational work space for entire Venue Technology team, including Partners & contractors.	Adjacent to or within Venue Operations Centre (VOC).	Medium security - lockable room. Air-conditioned as office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	-				F					G	P	
OCOG Venue Technology Work Area	-	1	-	-	Work space for Venue Technology Manager, Assistant Venue Technology Manager, Technology Workforce Manager and associated volunteer(s).	-	-	Work space size may be dependent upon workforce per shift.											
AV Contractor Work Area	-	1	-	-	Work space for AV contractors/Technicians.	-	-	Work space size may be dependent upon workforce per shift.											
IT Provider Work Area	-	1	-	-	Work space for IT workforce and "home base" for IT volunteers.	-	-	Work space size may be dependent upon workforce per shift.											
Reprographic Provider Work Area	-	1	-	-	Work space for reprographic contractors/technicians	-	-	Work space size may be dependent upon workforce per shift.											
Mobile Phone Provider Work Area	-	1	-	-	Workspace for mobile phone provider.	-	-	Work space size may be dependent upon workforce per shift. Charging area for Venue Operations workforce phones may be required.											
Wired Communications Provider Work Area	-	1	-	-	Work space for Wired Communications contractors/technicians.	-	-	Work space size may be dependent upon workforce per shift.											
Timing & Scoring/OVR Provider Work Area	-	1	-	-	Work space for OVR/Timing & Scoring contractors/technicians.	-	-	May not be required if adequate working space is allocated in OVR room.											
Radio Distribution Room (RDR)	15	1	15	18	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E and workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).	I			F						P	
Information Technology																			
Computer Equipment Room (CER)	20	1	20	25	Location for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.	I			F					G	P	
Data Local Area Network (LAN) Management Room & Store	25	1	25	32	LAN monitoring room & associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational staff & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces.				F					G	P	

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Telecommunication & Audio Visual																				
Telecomm. Equipment Room (TER) Primary	36	1	36	45	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	Raised flooring is preferable for cabling distribution, but not essential.		I		F							P	
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.		I		F							P	
Telecomm. Operations & Store	25	1	25	32	Operational space for Telecommunications technical staff and associated storage for spare parts.	Adjacent to TER.	As TER with adequate FF&E to support operational staff & storage.	If located adjacent to TER, power supply boards, UPS units & A/C services can be common for both spaces.		I		F							P	
Audio Control Positions																				
	-	-	-	-	-	-	-	-				F						G	P	
Venue	4	1	4	8	Area within Sport Production, location for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Production. Can be on FOP, in stands or in a booth with view to FOP.	High Security. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	Storage for country anthems.												
Press Conference	4	1	4	8	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), air-conditioned, waterproof. Work space & FF&E for operator.	PA system may also be used for Competition Draw if draw is held in Press Conference room.												
Warm-Up Area	2	1	2	4	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Within Warm-up area for Athletes.	Standard/mains power & FF&E.	-												
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-												
Workforce Break/Dining	2	Varies	Varies	-	Area within Staff Break/Training room where audio control equipment is installed to facilitate meetings/training of large numbers of staff.	Workforce break/dining areas.	Standard/mains power & FF&E.	-												
Video Board Control	4	1	4	8	Location of video control for video board or video projection system. Operations integral with those of Sport Production.	Ideally with Sport Production. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	-				F						G	P	
Wired Communications Control	2	1	2	4	Location of wired communications master control station and support technician. System essential to operations of both Sport Production and Results/FOP management.	Near to or within Sport Production is preferable. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location is located outdoors. Good cable access to FOP, OVR Room, Sport Production, Broadcast Graphics Room & Results Printing required. Workspace & FF&E for one technician, control equipment, spare parts and containers/boxes for equipment.	-				F						G	P	
Temporary PA equipment Room	2 min	1	2 min	4 min.	Temporary location for installation of PA active equipment (amplifiers etc) for venue PA system.	In existing PA equipment room, if applicable. May be located under venue seating/tribunes if existing room not available.	High Security. Fully redundant power (mains & standby generator) to equipment. Good cable access to speaker location and PA/Audio Control position required. Equipment installed in racks. Each rack set is 1000H x 600W x 600 D maximum.	Number of racks will depend on size of system deployed. Generally venues with large geographic area (outdoor) require larger installation and therefore more racks of amplifier equipment.					F						P	

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Timing, Scoring and Results Operations																			
Results Data Entry Position	-	-	-	-	Location(s) for event results and/or statistics data entry during competition.	As noted below.	High Security. Fully redundant power (mains & generator) with UPS to all results data entry equipment/workstations. Space & FF&E for all data entry personnel & results management staff.	Adequate weather (rain/sun) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
Field of Play - Statistics Tables	2	2	4	8	Areas/positions for statistics calling & data entry into OVR system.	Positions located at either end of FOP with sport statisticians.	Cable pathway to Technical Table.	May occur as a position on the FOP, or in a room with a view to the FOP.											
Field of Play - Technical Table	3	1	3	6	Area/position for results data entry.	Position located at Technical Table on FOP with sport results & sport officials.	Cable pathway to Statistics Tables, Official Table & OVR Room.	Generally occurs Back of House, in Sport location.											
Timing and Scoring Position	-	-	-	-	Location(s) for event timing & scoring personnel & equipment during competition.	Sport Specific. However, all locations must have view to FOP	High Security Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards, ball speed guns & OVR room. Space & FF&E for operators and equipment. Adequate weather (rain/sun) protection for equipment/workstations to be provided.	-	I	I	I	F						R	IF, Swatch
Field of Play - Official Table	2	1	2	4	-	Position located on FOP with sport officials.	Cable pathway to Technical Table & sport specific scoreboards.	-											
Control Room	1.5/pp	1	1.5/pp	3/pp	-	-	-	-											
On Venue Results (OVR)	-	-	-	-	Location is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	Easy access to FOP critical for technical and results staff.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Space & FF&E required for high density of computer workstations, racks for servers and working space for technicians, operators and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or venues where two sports occur concurrently will require more space for additional OVR equipment.	I	F								P	
OVR Provider Work Area	30	1	30	38	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO/CIS/PRD etc).	Ideally adjacent to IT provider work area.	-	-											
IT Provider Work Area	20	1	20	25	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-											
Scoreboard Control	-	-	-	-	Location of scoreboard control operations. Operations integral with those of Sport Production, data provided from OVR System. Space for both Control and Interface workstations & 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.	I	F							G	P	
Scoreboard Control	2	1	2	4	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator & workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-											
Scoreboard Interface	2	1	2	4	Area for interface equipment (PC workstations) linking OVR system & Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-											
Results Printing (PRD)	60	1	60	75	Location for hard copy results production & distribution. Location of high intensity work involving many staff preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area & position for the Print Distribution Workstation (IDS interface) equipment and operator.	Near/adjacent to Press Workroom, access to Press Tribunes, Broadcast Commentary Positions, Sport Information Desk, Doping & Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specification. Space & FF&E required for equipment and operational staff as well as space for 1 x pallet of paper to support print/copy operations.	-	I	I	I	F						R	IF, Swatch
TV Graphics Interface	3	1	3	6	Location where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operators & good cable access to OVR room.	-				I		F		G	P		

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Technology Storage																			
Technology General Storage	15	1	15	18	Location for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F					G	P	
IT Bulk Storage	30	1	30	38	Storage area for all spare IT equipment & associated boxes/containers.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to IT provider at all times.				F					G	P	
Reprographic Primary Storage Area	12	1	12	15	Primary storage/technical area in-venue for reprographic provider. Storage for spare parts, additional devices and consumables serving primarily Results Printing Operations.	In venue location adjacent to, or within Results Printing Room.	High Security - lockable. Standard office environment with standard power. Workspace & FF&E for one technician.	-		I		F					G	P	
Reprographic Bulk Storage Area	15	1	15	18	Storage area for bulk paper allocated to venue (multiple pallets).	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of paper required to support venue operations.				F					G	P	
Timing and Scoring Workshop	10	1	10	13	In venue storage & workshop for timing equipment, spare parts & small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.	-		I		F					G	P	
Timing & Scoring Bulk Store	30	1	30	38	Storage area for large crates & containers used for scoreboards and bulk equipment. Must be accessible to OVR provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of Timing & Scoring equipment deployed to venue. May be combined with Timing & Scoring Workshop if location & size of space meet requirements for venue.			I		F				G	P	
Audio Visual Bulk Store	30	1	30	38	Storage area for large crates & containers used for video boards, PA equipment & TV boxes. Must be accessible to Video/Public address provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of audio/video equipment deployed to venue.				F					G	P	
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closet. CCFs are to be installed in locations that allow for easy access for service technicians and which allow for easy cable access both from TER room and to user device locations.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Work Room.	High Security - lockable and weatherproof. May require fan or dedicated A/C depending on room location and/or configuration. Fully redundant power (mains and generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.		I		F						P	
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of power from data/voice and audio-visual cabling.	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in an manner which allows for easy access and repair/replacement. Legacy installations are to be installed as permanent while temporary (overlay) should be installed using methods which are easily installed and removed minimising potential damage to existing venue.				F						P	
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.	-	-	-											
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.	-	-	-											
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.	-	-	-											

HANBALL Finals

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	-												
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	-												
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-												
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-												
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-												
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-												
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-												
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing and Scoring/OVR contractor.	I			F							P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.												
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F							P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the videoboard. Required for outdoor venues where the videoboard cannot be suspended from ceiling structure.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each videoboard.												
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Production on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F						G	P	
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to/from audio/PA amplification system and/or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend PA speakers from venue ceiling structure.	-	-	-												
Mobile Phone Infrastructure (antenna)	-	Varies	-	-	Infrastructure required to support installation of additional radio antenna & mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to/from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.	I			F						G	P	

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Ticketing																			
Ticket Box Office	40	1	40	100	An area at the venue where Olympic tickets are sold.	Adjacent to the secure perimeter; near the spectator entry point of the venue	Gross area includes internal & external queue.	Assumes container unit with disabled access to internal and external service window. Dependant upon venue layout and footprint, spectator access point locations.										P	
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-					F						
Internal Ticket Sales Window(s)	15	1	15	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s)	15	1	15	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	25	1	25	50	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.					F					P	
Driver Staging	80	1	80	150	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.					F					P	
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside venue secure perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	20	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-					F					P	
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from Host City, based on vehicle/bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J							P	
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J							P	
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F						P	
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.				F		I				G	IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.				F						G	IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.	I		F							G	IOC
Spectator and Staff Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				F						P	
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.	I		F							P	
Accessible	-	-	-	-	-	-	-	Part of Spectator total.				F						P	
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Surface areas paved or gravel.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have drop-off in close proximity to accredited entry point and then driver will park.			I	F						P	
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.				F		I				P	
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.				F		I				P	
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-		J	J							P	
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes vehicle circulation.				F		I				P	
Emergency Services	-	-	-	50 (each)	-	Generally located inside the Secure Venue Perimeter.	-	Includes vehicle circulation.				F		I				P	

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Venue Development																			
Site Management Compound	503	1	503	650	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Dependent upon venue footprint, extent of temporary works and number of contractors.										P	
Site Management Area	60	1	60	-	-	-	Enclosed space.	-											
Site Manager & Assistant Site Manager(s) Work Area	12	1	12	-	Work and meeting area for the Site Manager and Assistant Site Manager.	-	-	-											
Site Administration Desk & Work Area	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-	-											
Response Team & Vendor Staging	24	1	24	-	On-site permanent and temporary facilities for specialty staff and general labor crew to be on-call.	-	-	-											
Secure Storage - Site Management	12	1	12	-	Area for storage.	-	-	-											
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.	-	Enclosed space. Area for office, staging and a secure storage area.	Assumes container units or existing space. Contractor usually installs container units at their own cost.											
Sign/Look Staging, Work Space/Secure Storage	50	1	50	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	-	Assumes container unit or existing space.											
Material Warehouse/Construction Work Space	80	1	80	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	-	Enclosed space.	Assumes tent or canopy with 2 side walls. Area for carpentry, painting and general construction. Storage for non-weather proof materials.											
Vendor Secure Storage	60	1	60	-	Area for containers, usually provided by the various temporary construction sub-contractors.	-	Enclosed space.	Assumes container units or existing space.											
Materials Staging Area	50	1	50	-	Area for the off-loading and loading of bulk construction materials.	-	Area only.	-											
Exterior Storage Area	50	1	50	-	Outdoor storage of material and products.	-	Area only.	Weatherproof area for large and bulk materials.											
Vehicle Staging	90	1	90	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	-	Area only.	Service, Repair & Specialty vehicles.											
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.	I			F						P	
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.	-	I			F						P	
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.	I			F						P	
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.											
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-	-											

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Venue Management																			
Venue Operations Centre (VOC)	60	1	60	90	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Dependent upon venue capacity and venue layout.										P	
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-					F						
Assigned Desks	20	1	20	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Space and Storage	18	1	18	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	40	1	40	50	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.					F					P	
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	24	1	24	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	8-10 people.											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	150	1	150	180	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre.	Enclosed space.	Assumes existing space or tent. Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.					F					P	
Workforce																			
Workforce Area	150	1	150	180	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.					F					P	
Check-In Area	96	1	96	-	Area to log-in venue staff and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Area	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	335	1	335	400	The space where workforce meals are served and where workforce can break during their shift.	A location that will provide easy access to all workforce for breaks and meals; will vary according to venue layout/size.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon venue workforce numbers.					F					P	
END OF DOCUMENT																			

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Accreditation																								
Venue Accreditation Office	50	1	50	125	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.											P	-				
Day Pass Issue & Problem Resolution Desk	15	1	15	-																				
Work Area	15	1	15	-																				
Manager Desk or Office & Storage	12	1	12	-																				
Waiting Area	8	1	8	-																				
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	-	Enclosed space. Required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.											P	-				
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Broadcast																								
Broadcast Compound	-	1	-	2500	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements.																
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Gross area includes snow removal access. Assumes container unit.																
Broadcast Manager Office	12	1	12	-		-	-	-	-															
Work Room, Assigned and Unassigned Desks	48	1	48	-		-	-	-	-															
Technical Operations Centre	40	1	40	100	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Broadcast Catering	140	1	140	180	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	-																
Kitchen and Prep	20	1	20	-		-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.															
Buffet Line and Dining	120	1	120	-		-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.															
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements.																
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-																
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters.																
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-																
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.																
Toilets	1.5	8	12	36	Toilet units designated for broadcast personnel.	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Commentator Control Room (CCR)	45	1	45	55	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in close proximity to commentator position area.	Enclosed space with incoming television cable.	Assumes existing space or container unit.																
Broadcast Information Office (BIO)	20	1	20	25	Space for broadcast management and team meetings.	Located near commentator positions and CCR	Enclosed space.	Assumes existing space or container unit.																
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-																
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J													
Mixed Zone	15	1	15	120	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Adjacent to the FOP.	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I	I	J													
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in seating areas with view to FOP and covered when possible.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Outdoor commentator positions should have the option of cover for protection from various weather conditions (e.g. sun, rain). Space for commentator positions may vary according to actual venue/permanent seating setup.																

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	Located at the rear of the commentator grouping so as not to disrupt the FOP view of other commentator positions.	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	A com-cam position equals 2 adjacent commentator positions.			I	J			J	I			
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions.	1 position = uses 1 seat in existing seating bowls.	-			I	J			J	I		R	IOC
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval. Space for camera positions may vary according to actual venue/permanent seating setup.	J		I	J			J	J		R	IOC
Camera Position - Other	4	20	80	180	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	Space for camera positions may vary according to actual venue/permanent seating setup.	I		I	J			J	I		R	IOC
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-					J	I	J			G	IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	See also Technology requirements.					J	I	J			G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in Back of House areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.					J	I	J			G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography	J			J	I	J	I			R	IOC
Catering																			
Catering Compound	565	1	565	850	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity. Gross area includes snow removal access.		I		F						P	
Work Areas - Catering Management	28	1	28	-		-	Enclosed space.	Assumes existing space or container.											
Organising Committee Catering Manager	-	-	-	-		Located in Venue Operations Centre.	See Venue Management - VOC.	-											
Catering Contractor	16	1	16	-		-	-	-											
Beverage Contractor	12	1	12	-	Operational work space(s).	-	-	-											
Dry, Cold and Ice Storage	38	6	228	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.											
Vehicle Staging	90	1	90	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-											
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-											
Kitchen and Preparation Area	80	1	80	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.											
Uncovered Storage	75	1	75	-	Outdoor storage of material and products.	-	Area only.	-											
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilets should be provided.											
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit.	-											
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container's). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity and level of catering activity.		I		F						P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	See Look for details.	-		I		F						P	

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Ceremonies																				
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-											P	
Ceremonies Staging	36	1	36	45	For the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule; to coordinate location of podium, procession, and recession route, and location of flagpoles.	Adjacent to or close to FOP.	Consists of coordinator work space with area for anthem storage, secure storage, preparation and dressing area; see below for additional details.	Assumes existing space or container.											P	
Manager Desk	6	1	6	-	Workspace for Manager.	-	-	-												
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenters, Medal/Flower staging, Secure medal and flag storage	22	1	22	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format. Medals storage is not required for those venues where the medal ceremony will take place at another location.												
Presenter Preparation and Dressing	4	2	8	-	A dressing and preparation area for Presenters.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-												
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	Close to FOP.	Limited use, may be shared with other space. See Sport Presentation.	-		I		F							P	
Awards Podium Storage	12	1	12	15	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	-			I	F							P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.	I		J	J					J	G	R	IOC
Cleaning and Waste																				
Cleaning & Waste Compound	252	1	252	350	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependant upon venue capacity.											P	
Vehicle Staging	72	1	72	-	Parking area for collection vehicles which generally remain inside the venue.	-	Area only.	-												
Sorting Area	72	1	72	-	Area for sorting waste.	-	Area only.	-												
Waste & Recycle Containers	15	4	60	-	Area in front of waste and recycle bins where material is separated for containment.	-	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).												
Compactor Unit	25	Varies	Varies	-		-	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.												
Equipment Supply & Storage	15	2	30	-	Space for cleaning equipment and paper product.	-	Enclosed space.	Assumes container unit.												
Contractor Office	18	1	18	-	Space for management and workforce staging.	-	Enclosed space.	-												
Doping Control																				
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	-	J		J	J							R	IOC
Waiting Area/Reception	26	1	26	30	Area where athletes check-in and wait prior to testing.	-	-	-												
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Blood Processing Room(s)	15	Varies	Varies	20 (each)	Area where athlete blood samples are provided and sealed	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Office / Storage	12	1	12	15	Work and storage space for Doping Manager.	-	Enclosed space. Secure storage.	-												
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-	I		J	J							R	IOC

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.					F					P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of workforce pre-shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large group.	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.					F					P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.					F					P	
Information Desk	-	-	-	-	-	-	-	-											
Lost and Found	-	-	-	-	A holding area for items found in the venue.	-	-	-											
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spectators.	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	-	-	Will depend on level of service at venue.					F					P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes; located between screening/search area and spectator plaza.	Total number generally 50% of security screening positions.					F					P	
Stroller Storage	Varies	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	In close proximity to seating area.	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.					F					P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.					F					P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators					F					P	
Spectator Shade and Shelter	Varies	Varies	Varies	72 (each)	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and spectator service amenities.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.					F					P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-					F					P	
Spectator Toilets	1.5	Varies	Varies	5 (each) 6 (per 20 toilets)	Toilet units designated for spectators.	Located in FOH, close proximity to seating and spectator amenities.	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.					F					P	
Hand Wash Stations	1	Varies	Varies		A chemical unit used in the absence of potable water.	Located in FOH, close proximity to seating and spectator amenities.	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.					F					P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Finance																				
Work Space / Desk	20	1	20	25	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I			F					P		
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Generally located inside venue perimeter and outside venue perimeter.	Area only.	Quantity dependent upon venue capacity.												
Language Services																				
Work Area / Desk	-	-	20	25	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre.	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-		J	J			I				G	IOC	
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference needs.	-		J	J			I				G	IOC	
Logistics																				
Logistics Compound	-	1	Varies	650	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access. Secondary Compound Area - an additional compound area may be necessary for staging or storage of equipment that is in close proximity to FOP and/or the finish area.											P	
Logistics Centre	60	1	60	-	-	-	Enclosed space.	Assumes container units or tent.												
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-												
Team Staging/Work Area	33	1	33	-	Space for staging and a work area.	-	-	-												
Secure Storage & Equipment Sign-out	15	1	15	-	Area for storage.	-	Storage for tools.	-												
Warehouse Storage	90	1	90	-	Storage area for furniture, fixtures, and equipment (FF&E).	-	Enclosed space.	Assumes tent												
Storage Yard	75	1	75	-	Outside storage area within compound.	-	Area only.	-												
Vehicle Staging	100	1	100	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-												
Fuel Tank(s)	9	Varies	Varies	25 (each)	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.												
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.												
Material Transfer Area (MTA)	-	1	-	575	Generally for deliveries to the venue that may take place after hours or not within the logistics delivery window period.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.					F						P	
X-Ray Area	36	1	36	72	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.												

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Look of the Games																			
Work Area and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.					F					P	
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J					J		R	IOC
National Olympic Committee (NOC) Flags	-	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition sch	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.			J	J				J		R	IOC
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and back of locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J				J	G	R,P	IOC, IF
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals.	-											
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH).	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.		I	J	J				J	G	R	IOC, L
Backdrop - Press Conference Room	2.2 x 6	1	2.2 x 6	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F		I	I				
Medical Services																			
Athlete Medical	65	1	65	100	An area where Medical provides services to athletes competing at the venue.	Located in Back of House within the accredited athlete area.	Enclosed space.	Assumes container or existing space.	J	J	J					J		R	IF
Reception & Waiting	12	1	12	-	Area where athletes check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Physiotherapy Area(s)	8	2	16	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J					J		R	IF
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.											
Spectator Medical	50	1	50	100	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed space. 1 per 20,000 spectators.	Assumes container unit or existing space.		I	F		I	I				P	
Reception & Waiting	12	1	12	-	Area where spectators check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	12	1	12	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Triage Station	36	1	38	72	Additional space to treat minor medical needs of spectators.	Located in the Front of House.	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.		I	F		I	I				P	
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.					F	I				P	
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Area only. Paved, graveled or grass area with fence, barricade or rope enclosure.	-					F	I				P	

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Merchandise																							
Office, Cash Room & Work Area	12	1	12	15		-	Enclosed space with secure entry.	Assumes container unit or existing space.													P		
Storage	15	2	30	35	An area to manage the retailing of all Olympic merchandise inside the venue.	-	-	Assumes storage containers or existing space. Units provided by vendor. Quantity and location decided by vendor and OCOG.						F							P		
Program Sales Stands/Booths	1	1	1	2		-	Area only.							F							P		
Merchandise Points of Sale (POS)	6	Varies	Varies	18 (each)	Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.	Gross area is per each P.O.S. and includes service area and queue.				I		F							P		
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.						I	J	J					G	R	IOC	
Olympic Family Services																							
Olympic Family Lounge	240	1	240	500	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests. Area to greet Olympic Family and respond to transport requests.	-	Enclosed space.	Assumes tent.	I											I	G	G	IOC
Welcome Desk and Transportation Desk	6	1	6	-		-	-																
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.																
Staff/Volunteer Room and Storage	12	1	12	-	On-call waiting area for Protocol staff and equipment storage.	-	-																
Dining and Lounge	140	1	140	-	Area for dining and lounge.	-	-																
Preparation/Buffer set-up/Beverage Area	70	1	70	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Staff/Volunteer, Athlete, Media)																
Toilets	30	1	30	60	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	4 female, 4 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided							F							P	
Protocol flags	-	-	-	-	-	-	See Look of the Games.							J	J							R	IOC
Press Operations																							
Venue Media Centre (VMC)	400	1	400	600	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Confer	Close proximity to Press Tribune, Press Conference room, and Mixed Zone area.	Enclosed space for 100 press and 25 photographers.	Assumes tent.							F						R	IOC	
Reception & Information Desk	18	1	18	-	Welcome desk at the entrance, for information distribution.	-	-																
Storage	4	1	4	-	Equipment storage.	-	-																
Press Manager Office	12	1	12	-	Operational work space.	-	-																
Photo Manager Office	12	1	12	-	Operational work space.	-	-																
Olympic News Service (ONS) Work Room or Area	25	1	25	-	Operational work space.	-	Enclosed space.																
Info Stations	20	1	20	-	Computer stations and printers.	-	-																
Press Work Room or Area	170	1	170	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.															
Photo Work Room or Area	35	1	35	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.																
Photographers Check-in & Photo Bib Distribution	9	1	9	-	Area where photographers register and receive/return photo bibs.	-	-																
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.															
Lounge/Catering Prep	70	1	70	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-																
Toilets	1.5	6	9	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided															

HOCKEY

Principles of Stakeholder Involvement:
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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Press Conference Room	150	1	150	280	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I			F						R	IOC
Seating Area	100	1	100	-	An area for accredited press.	-	Seats and standing room.	-											
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3.6 m table, 8 chairs & step and repeat backdrop.	-											
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-											
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-											
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-				F			I	I			
Mixed Zone	20 linear mtrs.	1	20 linear mtrs.	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I		I	F						R	IOC,IF
Press Tribune	-	-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	-	Tabled seating is fitted out with telephones, television monitors, power and other press facilities (indoor venues). For outdoor venues, these services will exist in VMC.	-											
Press Tabletop Seating	Varies	Varies	Varies	-	-	Easy access from Venue Media Centre and direct access if possible to Mixed Zone.	<u>In an existing stadium or seating area:</u> 1 seat wide (folding chairs at 60 cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50 cm deep tabletop per position, each position = 2 stadium seats. <u>Temporary Stands:</u> 1 seat (folding chairs at 60 cm spacing) x 2 rows deep of proposed seating system (normally 150 cm-170 cm deep).	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.			I	F					R	IOC,IF	
Press Seating (non-tabled)	Varies	Varies	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.			I	F						R	IOC,IF
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided											
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-											
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	In close proximity to FOP.	Total peak number of Photographers: 80. 60cm wide x 90cm deep per position, multi-row areas require 60cm riser per row. See Venue Seating for quantities by sport.	Power, Wireless and data cabling needed to photo positions on FOP.	J		I	J						R	IOC, IF
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Normal seating areas.	See Venue Seating for quantities by sport.	Seating areas are generally not applicable for outdoor venues.	I		I	F						G	IOC
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

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Security																			
Security Command Centre	120	1	120	145	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.											
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-											
Security Work Area	15	1	15	-	An area for additional security agencies.	-	-	-											
CCTV Surveillance & Video Desk	15	1	15	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-											
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.											
Radio Dispatch & Monitoring	15	1	15	-	An area for the monitoring and control of security communication and the distribution/return of radios.	-	-	-											
Work Room	50	1	50	-	Open plan of work stations designated for security personnel.	-	-	-											
Secure Storage	10	1	10	-	An area for Security equipment storage.	-	Enclosed, secure space.	-											
Dog Cage(s)	4	Varies	Varies	8 (each)	Holding area for security dogs.	-	Area only for enclosed portable units (e.g. cages).	Dependent upon Host City/Country / Risk Assessment.											
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-											
Briefing and Break Area / Staging Area	140	1	140	170	Area for briefing staff before and after shifts.	-	Enclosed space.	Assumes tent.											
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.											
Vehicle Screening & Sanitisation Area	569	1	569	800	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.											
Vehicle Queue	175	1	175	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-											
Oversized Vehicle Queue	140		140	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-											
Vehicle Sanitisation & Wanding Areas	150		75	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.											
Oversized Vehicle (Truck & Bus) Sanitisation	70		70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-											
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.											
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Enclosed space for staging and break.	-											
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the venue secure perimeter and/or venue screening area for constituents.	-	Dependent upon spectator capacity and venue design.											
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-											
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-											
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-											
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.											

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Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the venue secure perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.										R	IOC
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the venue secure perimeter.	Enclosed space for screening/search area positions.. Net area for each screening position will accommodate the following: 4 Wanding Stations, OR 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue. Dependent upon spectator capacity and venue design.											
Athlete / Team	18	1-2	18-36	36-72	-	BOH.	-	-				F						R	IOC
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with Athlete and/or Olympic Family.				F						G	IOC
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with TO, ENG and/or Press.				F						P	
Broadcast	18	1-2	18-36	45-90	-	BOH.	-	If possible, direct access from outside venue perimeter into Broadcast Compound.											
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	BOH; located in close proximity to Venue Broadcast Compound.	-	-											
Press and Photographer	18	1-2	18-36	36-72	-	BOH; located in close proximity to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast).	If possible, direct access from outside venue perimeter into Venue Media Centre.				F	I						
Workforce (Staff/Volunteer/Contractor/Vendor)	18	2-3	36-54	90-135	-	BOH or possibly FOH.	-	-				J	J					P	
Spectator / Sponsors	18	Varies	Varies	54	-	FOH.	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-	I			F							P
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.				F		I					P
Exception Gate	Varies	Varies	Varies	-	Access gate for designated accredited personnel.	FOH; located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.				F							P
X-ray of bags	36	Varies	Varies	72 (each)	Device for screening bags/equipment coming into the venue.	FOH and BOH.	Covered.	-				F	I						P
Venue Perimeter Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	Dependent upon spectator capacity and venue design.											
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	1m to 3m width, sometimes used as a secondary service vehicle exit point.	-											
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m each, number varies per concourse design.	-											
Workforce (Staff/Volunteer/Contractor/Vendor)	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	Size dependant upon total workforce numbers.				I	F				G	P	
Sponsor Services																			
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.				I	F						P

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Principles of Stakeholder Involvement:
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F-Final Decision

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Sport Operations																			
Competition Management	60	1	60	90	A work area for Sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located close to Athlete Area and field of play; may be co-located within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space.	I				F					P	
Competition Manager & Asst. Manager Desks	12	1	12	-	An area for the Manager and Assistant(s) Manager.	-	-	-											
Assigned Work Area	20	1	20	-	Open plan of work stations designated for Sport personnel.	-	-	-											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Area	18	1	18	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-											
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-											
Sport Information	20	1	20	30	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located in Athlete Area within the Athlete lounge.	Enclosed space with waiting area and seating.	Includes: information boards, pigeon holes, Info & Help Desk, work area, info terminal stations & storage.	J			J						R	IF
Athlete Lounge	100	1	100	125	An area where athletes can relax at the venue while not training or competing.	Located in Athlete Area.	An area is required for athletes to store their stick bags when in the lounge. Recommended the Sports Information desk is a part of the athlete lounge and accessible by NOCs.	Includes: seating area, lounge, Info & Help Desk, info terminal stations.	J			J						R	IF
Athlete Dressing, Locker, Shower, Toilet	40	Varies	Varies	Varies	Change-room facilities to accommodate athletes at the venue during competition and training.	Located in Athlete Area.	Enclosed space. 16 players per team with 8 support staff per Change-room. Separate male and female facilities.	Assumes container units or existing space. Number of Change Rooms: there requirement for 4 change-rooms at each Hockey pitch (applicable when there is more than 1 pitch required).	J			J						R	IF
IF & Sport Meeting Room	30	1	30	45	Meeting facility at the venue for the International Federation and Competition Management.	Located in close proximity to the IF Area and Competition Management area.	Enclosed space.	Shared meeting room area between IF & Sport to serve various meeting needs.	J			J						G	IF
FOP Equipment Storage	-	-	-	-	Storage of equipment required for competition.	Located along FOP or in close proximity.	Area only for extra goals. No cover required.	-	I			F	I					R	IF
FOP Maintenance Equipment Storage	20	1	20	30	Storage of equipment to maintain FOP area.	Located at either end of Pitch 1 with easy access onto FOP.	Enclosed space required for vacuum machine, cleaning supplies, and paint machine, etc..	-	I			F	I					R	IF
Team Benches	8 x 3	2	48	-	Team bench area for each team.	Located on each side of the Technical Officials Table. Distance from Technical officials table is not more than 7.5 metres and setback 4 metres from the FOP (same distance as TO table)	Covered area (protective against sun, wind, rain, and field of play watering and a direct sight line to FOP).	Team bench or chairs for each team will seat 9 people.	J			J						R	IF

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Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	Reference should be made to FIH Facilities and Technical Requirements for the Organisers of Olympic Games.	-		F		I		I	I			R	IF
Playing Surface Dimensions or Area	91.4 x 55	Varies	5027	101.4 x 63 = 6388.2	-	-	FOP and total FOP Requirements. A ball retaining fence or barrier surrounding the overrun area of each field of play and erected to an extra height behind the goal shooting areas for protection of spectators.	The requirement for 1 or 2 competition pitches will vary according to host city climate conditions during the period of the Games. Where it is possible to schedule all matches for men and women on 1 competition pitch (e.g. Sydney), pitch 2 can be used for all warm-ups. Watering facilities capable of equally hydrating the full FOP with overruns within 8 minutes. Seating is close as possible to FOP; no athletic track between pitch and seating area.	F		I		I	I			R	IF	
Surface	-	-	-	-	-	-	A non-sand filled synthetic surface (i.e. water-based installation), without advertising; approved by the F.I.H. and having a Certificate of Compliance issued by F.I.H. (see Technical Specifications of the Sites - Inspection). The surface of the synthetic FOP is to continue with the same qualities of materials, slope and smoothness for a minimum distance of 3 metres before any change in that surface occurs and for a further minimum distance of 2 metres at horizontal surface at each end and 1 metre at each side before any obstruction is encountered (except possibly at the Technical Official's table).	Durable white markings, flush with the surface and clearly visible, inlaid into the carpet. (see Technical Specifications of the Sites - Inspection).	J		J	I		J				R	IF
Orientation	-	-	-	-	-	-	The FOP shall be constructed with the long axis in a North-South direction, subject to tolerances that can actually increase with latitude. However, the maximum tolerance to be allowed is for the long axis to be within an angle of + or - 15E (East or West) of north.	-	J		J	I		I	J			R	IF
Camera Positions - IF /Team	45	2	90	-	Area for cameras used by IF and Team	Area located at the top of spectator stand behind one or both goals.	Specific covered platform for video operators of participating teams, with full viewing capability. Platform should be 15 metres in length x 3 metres deep.	Power is to be available for video and computer equipment. Preferably two tables and chairs to be available for use of video analysts of the participating teams of match in progress.	I		F							G	IF
Sports Lighting - Technical	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											
Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	-	Where it is possible to schedule all matches for men and women on 1 competition pitch (e.g. Sydney), pitch 2 can be used for all warm-ups. However, if both competition pitches are used for competition the format of the match schedule will provide sufficient time between competition matches for appropriate warm-up/cool down on each pitch. .	-											
Warm-up Surface Dimensions or Area	91.4 x 55	1	5027	-	-	Adjacent or in close proximity to Field of Play.	See FOP requirements.	-	J		J		I	J				R	IF
Surface	-	-	-	-	-	-	See FOP surface.	-	J		J	I		J				R	IF
Orientation	-	-	-	-	-	-	See FOP orientation.	-	I		F	I						R	IF
Athlete / Team Seating	-	-	-	-	A designated seating area for athletes.	-	-	-	J		I	J		J					
Same Sport	-	Varies	-	-	-	-	-	-	J		I	J		I				R	IOC,IF
Different Sport	-	Varies	-	-	-	-	-	-	I		I	F		I				R	IOC
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	May be required for Sport Staff use. Quantity varies according to athlete numbers.			F							P	
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	Required if FOP is not located near Athlete Area.	Assumes temporary units. Quantity varies according to athlete numbers.			F							P	

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
International Federation																			
IF Area	70	1	70	80	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located in close proximity to accredited seating areas.	Enclosed air-conditioned space.	Assumes container units or existing space.	I	I	F							R	IF
IF President's Office	15	1	15	-	-	-	Enclosed space.	-	I	I	F							R	IF
IF Secretary - General/Executive Director's Office	15	1	15	-	-	-	Enclosed space. Two (2) areas each for the Secretary-General and Executive Director.	-	I		F							G	IF
Reception, Secretariat, Waiting & Work Area	40	1	40	-	-	-	Enclosed space.	-	I		F							G	IF
IF Media Office	12	1	12	15	Area for FIH Media personnel.	Located inside IF Centre and/or area.	Enclosed space.		I		F							G	IF
Umpires Manager Offices	20	1	20	30	Debriefing and video analysis after match for umpires.	Located in close proximity to Pitch 1.	Office area for umpire managers and assistant umpire managers.		I		F							G	IF
Officials Locker Room, Shower, Toilet	25	2	50	100	A change area for officials.	In close proximity to FOP.	Enclosed space. Male and female facilities required.	When there is requirement for 2 pitches, 2 change-rooms will be required (separate from team facilities).	I		F							R	IF
Technical Delegates Office & Work Area	15	1	15	20	Office area for Technical Delegates.	Overlooking FOP.	Enclosed space. 2 Technical Delegates.		I	I	F							R	IF
Appeals Room	40	1	40	50	This space is utilised for the resolution of protests and appeals after competition.	-	Enclosed space.		I	I	F							R	IF
Technical Officials Table	3 x 4	2	24	-	A area for an officials table.	Located on FOP sideline at the centre line (position to avoid sun rays and not hindering the spectator sight line).	1 Technical Officials Table per pitch. Covered area with platform with open sides for easy access to FOP area. Platform shall be 25cm in height above FOP. Front of table shall be 4 metres distance from FOP sideline. Seating for 4 officials at a table.	Quantity of TO tables may vary according to final FOP requirements (1 or 2 competition pitches). Refer to FIH Facility and Technical Requirements.	I		F							G	IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-		I	J	J							R	IOC,IF
Sport Presentation																			
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.											
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.				F							P	
Announcer Position	3	1	3	-	-	-	-				F							P	
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space, consisting of work area, green room, entertainer staging and dressing and prop storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.				F						P	
Technology Operations																			
Technology Help Desk	15	1	15	18	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support staff & manager.				F							P	
Venue Technology Operations (VTO)	25	1	25	32	OCOG Technology Operations area. Operational work space for entire Venue Technology team, including Partners & contractors.	Adjacent to or within Venue Operations Centre (VOC).	Medium security - lockable room. Air-conditioned as office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.				F							G	P
OCOG Venue Technology Work Area	-	1	-	-	Work space for Venue Technology Manager, Assistant Venue Technology Manager, Technology Workforce Manager and associated volunteer(s).	-	-	Work space size may be dependent upon workforce per shift.											
AV Contractor Work Area	-	1	-	-	Work space for AV contractors/Technicians.	-	-	Work space size may be dependent upon workforce per shift.											
IT Provider Work Area	-	1	-	-	Work space for IT workforce and "home base" for IT volunteers.	-	-	Work space size may be dependent upon workforce per shift.											
Reprographic Provider Work Area	-	1	-	-	Work space for reprographic contractors/technicians	-	-	Work space size may be dependent upon workforce per shift.											
Mobile Phone Provider Work Area	-	1	-	-	Workspace for mobile phone provider.	-	-	Work space size may be dependent upon workforce per shift. Charging area for Venue Operations workforce phones may be required.											
Wired Communications Provider Work Area	-	1	-	-	Work space for Wired Communications contractors/technicians.	-	-	Work space size may be dependent upon workforce per shift.											
Timing & Scoring/OVR Provider Work Area	-	1	-	-	Work space for OVR/Timing & Scoring contractors/technicians.	-	-	May not be required if adequate working space is allocated in OVR room.											

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Radio Distribution Room (RDR) Information Technology	15	1	15	18	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E and workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).		I		F						P	
Computer Equipment Room (CER)	20	1	20	25	Location for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.		I		F					G	P	
Data Local Area Network (LAN) Management Room & Store Telecommunication & Audio Visual	25	1	25	32	LAN monitoring room & associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational staff & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces.				F					G	P	
Telecomm. Equipment Room (TER) Primary	36	1	36	45	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	Raised flooring is preferable for cabling distribution, but not essential.		I		F						P	
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.		I		F						P	
Telecomm. Operations & Store Audio Control Positions	20	1	20	25	Operational space for Telecommunications technical staff and associated storage for spare parts.	Adjacent to TER.	As TER with adequate FF&E to support operational staff & storage.	If located adjacent to TER, power supply boards, UPS units & A/C services can be common for both spaces.		I		F						P	
	-	-	-	-	-	-	-	-				F					G	P	
Venue - Main Pitch	4	1	4	8	Area within Sport Production, location for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Production. Can be on FOP, in stands or in a booth with view to FOP.	High Security. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	Storage for country anthems.											
Venue - Pitch 2 (when applicable)	4	1	4	8	-	-	-	-											
Press Conference	4	1	4	8	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), air-conditioned, waterproof. Work space & FF&E for operator.	-											
Warm-Up Area	2	1	2	4	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Within Warm-up area for Athletes.	Standard/mains power & FF&E.	-											
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-											
Workforce Break/Dining	2	Varies	Varies	-	Area within Staff Break/Training room where audio control equipment is installed to facilitate meetings/training of large numbers of staff.	Workforce break/dining areas.	Standard/mains power & FF&E.	-											
Video Board Control	4	1	4	8	Location of video control for video board or video projection system. Operations integral with those of Sport Production.	Ideally with Sport Production. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	-				F					G	P	
Wired Communications Control	-	-	-	-	Location of wired communications master control station and support technician. System essential to operations of both Sport Production and Results/FOP management.	Near to or within Sport Production is preferable. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location is located outdoors. Good cable access to FOP, OVR Room, Sport Production, Broadcast Graphics Room & Results Printing required. Workspace & FF&E for one technician, control equipment, spare parts and containers/boxes for equipment.	-				F					G	P	
Venue - Main Pitch	2	1	2	4	-	-	-	-											
Venue - Pitch 2 (when applicable)	2	1	2	4	-	-	-	-											
Temporary PA equipment Room	-	-	-	-	Temporary location for installation of PA active equipment (amplifiers etc) for venue PA system.	In existing PA equipment room, if applicable. May be located under venue seating/tribunes if existing room not available.	High Security. Fully redundant power (mains & standby generator) to equipment. Good cable access to speaker location and PA/Audio Control position required. Equipment installed in racks. Each rack set is 1000H x 600W x 600 D maximum.	Number of racks will depend on size of system deployed. Generally venues with large geographic area (outdoor) require larger installation and therefore more racks of amplifier equipment.				F						P	
Venue - Main Pitch	2	1	2	4	-	-	-	-											
Venue - Pitch 2 (when applicable)	2	1	2	4	-	-	-	-											

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Timing, Scoring and Results Operations																			
Results Data Entry Position	-	-	-	-	Location(s) for event results and/or statistics data entry during competition.	As noted below.	High Security. Fully redundant power (mains & generator) with UPS to all results data entry equipment/workstations. Space & FF&E for all data entry personnel & results management staff.	Adequate weather (rain/sun) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
Technical Table - Main Pitch	3	1	3	6	Area/position for results data entry.	Position located at Technical Table on FOP, or with view to FOP with sport results & sport officials.	Cable pathway to Technical Table.	May occur as a position on the FOP, or in a room with a view to the FOP.											
Technical Table -Pitch 2 (when applicable)	3	1	3	6	-	-	Cable pathway to Statistics Tables, Official Table & OVR Room.	Generally occurs Back of House, in Sport location.											
Statistics Table - Main Pitch	2	1	2	4	Areas/positions for statistics calling & data entry into OVR system.	Positions located at either end of FOP with sport statisticians.	-	-											
Statistics Table - Pitch 2 (when applicable)	2	1	2	4	-	-	Cable pathway to Technical Table.	-											
Timing and Scoring Position	-	-	-	-	Location for event timing/scoring control operations.	Position located on FOP with sport officials.	High Security Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards & OVR room. Space & FF&E for operators and equipment. Adequate weather (rain/sun) protection for equipment/workstations to be provided.	-	I	I	I	F						R	IF, Swatch
Official Table - Main Pitch	2	1	2	4	-	-	-	-											
Official Table - Pitch 2 (when applicable)	2	1	2	4	-	-	-	-											
On Venue Results (OVR)	-	-	-	-	Location is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	Easy access to FOP critical for technical and results staff. 1 x OVR room servicing both Pitch 1 & 2. Located in Main Venue.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations for both Pitch 1 & 2, Broadcast Compound, scoreboard control, CER/TER rooms. Space & FF&E required for high density of computer workstations, racks for servers and working space for technicians, operators and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or venues where two sports occur concurrently will require more space for additional OVR equipment.										P	
OVR Provider Work Area	18	1	18	23	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO/CIS/PRD etc).	Ideally adjacent to IT provider work area.	-	-											
IT Provider Work Area	18	1	18	23	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-											
Scoreboard Control	-	-	-	-	Location of scoreboard control operations. Operations integral with those of Sport Production, data provided from OVR System. Space for both Control and Interface workstations & 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.	I			F						G	P
Scoreboard Control - Main Pitch	2	1	2	4	Adjacent/co-located with Scoreboard Interface.	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator & workstation control PCs.	-	-											
Scoreboard Control - Pitch 2 (when applicable)	2	1	2	4	-	-	-	-											
Scoreboard Interface - Main Pitch	2	1	2	4	Adjacent/co-located with Scoreboard Control.	Area for interface equipment (PC workstations) linking OVR system & Scoreboard Control workstation.	-	-											
Scoreboard Interface - Pitch 2 (when applicable)	2	1	2	4	Area for interface equipment (PC workstations) linking OVR system & Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-											

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Results Printing (PRD)	80	1	80	100	Location for hard copy results production & distribution. Location of high intensity work involving many staff preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area & position for the Print Distribution Workstation (IDS interface) equipment and operator.	Near/adjacent to Press Workroom, access to Press Tribunes, Broadcast Commentary Positions, Sport Information Desk, Doping & Olympic Family for results delivery. 1 x PRD Servicing HO Venue.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specification. Space & FF&E required for equipment and operational staff as well as space for 1 x pallet of paper to support print/copy operations.	-	I	I	I	F						R	IF, Swatch
TV Graphics Interface	3	1	3	6	Location where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Rooms or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation for both Main & secondary venues.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operators & good cable access to OVR room.	-				I		F			G	P	
Technology Storage																			
Technology General Storage	15	1	15	18	Location for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F					G	P	
IT Bulk Storage	30	1	30	38	Storage area for all spare IT equipment & associated boxes/containers.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to IT provider at all times.				F					G	P	
Reprographic Primary Storage Area	12	1	12	15	Primary storage/technical area in-venue for reprographic provider. Storage for spare parts, additional devices and consumables serving primarily Results Printing Operations.	In venue location adjacent to, or within Results Printing Room.	High Security - lockable. Standard office environment with standard power. Workspace & FF&E for one technician.	-	I		F						G	P	
Reprographic Bulk Storage Area	20	1	20	25	Storage area for bulk paper allocated to venue (multiple pallets).	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of paper required to support venue operations.				F					G	P	
Timing and Scoring Workshop	10	1	10	13	In venue storage & workshop for timing equipment, spare parts & small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.	-	I		F						G	P	
Timing & Scoring Bulk Store	30	1	30	38	Storage area for large crates & containers used for scoreboards and bulk equipment. Must be accessible to OVR provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of Timing & Scoring equipment deployed to venue. May be combined with Timing & Scoring Workshop if location & size of space meet requirements for venue.	I		F						G	P	
Audio Visual Bulk Store	30	1	30	38	Storage area for large crates & containers used for video boards, PA equipment & TV boxes. Must be accessible to Video/Public address provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of audio/video equipment deployed to venue.				F					G	P	
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closet. CCFs are to be installed in locations that allow for easy access for service technicians and which allow for easy cable access both from TER room and to user device locations.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Work Room.	High Security - lockable and weatherproof. May require fan or dedicated A/C depending on room location and/or configuration. Fully redundant power (mains and generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.	I		F							P	
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of power from data/voice and audio-visual cabling.	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in an manner which allows for easy access and repair/replacement. Legacy installations are to be installed as permanent while temporary (overlay) should be installed using methods which are easily installed and removed minimising potential damage to existing venue.				F						P	
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.	-	-	-											
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.	-	-	-											
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.	-	-	-											

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CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	-											
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	-											
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-											
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-											
Power	-	-	-	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, and re-fueling.	Size of Generators will vary depending on volume of critical power that requires "back-up".											
Backbone	-	-	-	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.											
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-											
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing and Scoring/OVR contractor.											P
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.											
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.											P
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the videoboard. Required for outdoor venues where the videoboard cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each videoboard.											
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Production on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.											G P
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to/from audio/PA amplification system and/or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend PA speakers from venue ceiling structure.	-	-	-											
Mobile Phone Infrastructure (antenna)	-	Varies	-	-	Infrastructure required to support installation of additional radio antenna & mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to/from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.											G P

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Ticketing																			
Ticket Box Office	40	1	40	100	An area at the venue where Olympic tickets are sold.	Adjacent to the secure perimeter; near the spectator entry point of the venue	Gross area includes internal & external queue.	Assumes container unit with disabled access to internal and external service window. Dependant upon venue layout and footprint, spectator access point locations.										P	
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	15	1	15	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s)	15	1	15	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	25	1	25	50	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.										P	
Driver Staging	80	1	80	150	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.										P	
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside venue secure perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	20	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-										P	
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from Host City, based on vehicle/bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J							P	
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J							P	
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F						P	
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.				F						G	IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.				F						G	IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.			I	F						G	IOC
Spectator and Staff Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				F						P	
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F						P	
Accessible	-	-	-	-	-	-	-	Part of Spectator total.				F						P	
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Surface areas paved or gravel.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have drop-off in close proximity to accredited entry point and then driver driver will park.			I	F						P	
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.				F						P	
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.				F						P	
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-			J	J						P	
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes vehicle circulation.				F						P	
Emergency Services	-	-	-	50 (each)	-	Generally located inside the Secure Venue Perimeter.	-	Includes vehicle circulation.				F						P	

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Venue Development																			
Site Management Compound	503	1	503	650	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Dependent upon venue footprint, extent of temporary works and number of contractors.										P	
Site Management Area	60	1	60	-	-	-	Enclosed space.	-											
Site Manager & Assistant Site Manager(s) Work Area	12	1	12	-	Work and meeting area for the Site Manager and Assistant Site Manager.	-	-	-											
Site Administration Desk & Work Area	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-	-											
Response Team & Vendor Staging	24	1	24	-	On-site permanent and temporary facilities for specialty staff and general labor crew to be on-call.	-	-	-											
Secure Storage - Site Management	12	1	12	-	Area for storage.	-	-	-											
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.	-	Enclosed space. Area for office, staging and a secure storage area.	Assumes container units or existing space. Contractor usually installs container units at their own cost.											
Sign/Look Staging, Work Space/Secure Storage	50	1	50	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	-	Assumes container unit or existing space.											
Material Warehouse/Construction Work Space	80	1	80	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	-	Enclosed space.	Assumes tent or canopy with 2 side walls. Area for carpentry, painting and general construction. Storage for non-weather proof materials.											
Vendor Secure Storage	60	1	60	-	Area for containers, usually provided by the various temporary construction sub-contractors.	-	Enclosed space.	Assumes container units or existing space.											
Materials Staging Area	50	1	50	-	Area for the off-loading and loading of bulk construction materials.	-	Area only.	-											
Exterior Storage Area	50	1	50	-	Outdoor storage of material and products.	-	Area only.	Weatherproof area for large and bulk materials.											
Vehicle Staging	90	1	90	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	-	Area only.	Service, Repair & Specialty vehicles.											
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.	I			F						P	
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.	-	I			F						P	
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.	I			F						P	
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.											
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-	-											

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Venue Management																			
Venue Operations Centre (VOC)	60	1	60	90	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Dependent upon venue capacity and venue layout.										P	
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-					F						
Assigned Desks	20	1	20	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Space and Storage	18	1	18	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	40	1	40	50	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.					F					P	
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	24	1	24	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	8-10 people.											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	150	1	150	180	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre.	Enclosed space.	Assumes existing space or tent. Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.					F					P	
Workforce																			
Workforce Area	150	1	150	180	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.					F					P	
Check-In Area	96	1	96	-	Area to log-in venue staff and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Area	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	335	1	335	400	The space where workforce meals are served and where workforce can break during their shift.	A location that will provide easy access to all workforce for breaks and meals; will vary according to venue layout/size.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon venue workforce numbers.					F					P	
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Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation					
Accreditation																								
Venue Accreditation Office	50	1	50	125	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.										P	-					
Day Pass Issue & Problem Resolution Desk	15	1	15	-																				
Work Area	15	1	15	-																				
Manager Desk or Office & Storage	12	1	12	-																				
Waiting Area	8	1	8	-																				
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	-	Enclosed space. Required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.										P	-					
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Broadcast																								
Broadcast Compound	-	1	-	3500	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements.																
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Gross area includes snow removal access. Assumes container unit.																
Broadcast Manager Office	12	1	12	-		-	-	-																
Work Room, Assigned and Unassigned Desks	48	1	48	-		-	-	-																
Technical Operations Centre	40	1	40	100	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Broadcast Catering	140	1	140	180	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	-																
Kitchen and Prep	20	1	20	-		-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.															
Buffet Line and Dining	120	1	120	-		-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.															
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements. Located in temporary structure. Assumes container/trailer unit or tent.																
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.																	
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.																	
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters. Located in temporary structure. Assumes container/trailer unit or tent.																
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.																	
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.																	
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.																
Toilets	1.5	8	12	36	Toilet units designated for broadcast personnel.	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Commentator Control Room (CCR)	55	1	55	65	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in close proximity to commentator position area.	Enclosed space with incoming television cable.	Assumes existing space or container unit.																
Broadcast Information Office (BIO)	20	1	20	25	Space for broadcast management and team meetings.	Located near commentator positions and CCR	Enclosed space.	Assumes existing space or container unit.	J	I	J								R	IOC				
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-											G	IOC				
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.											R	IOC				
Mixed Zone	20	1	20	120	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Adjacent to the FOP.	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.																
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in seating areas with view to FOP and covered when possible.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Outdoor commentator positions should have the option of cover for protection from various weather conditions (e.g. sun, rain). Space for commentator positions may vary according to actual venue/permanent seating setup.											R	IOC				

JUDO

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	Located at the rear of the commentator grouping so as not to disrupt the FOP view of other commentator positions.	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	A com-cam position equals 2 adjacent commentator positions.			I	J						R	IOC
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions.	1 position = uses 1 seat in existing seating bowls.	-	I	I	J				J	I		R	IOC
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval. Space for camera positions may vary according to actual venue/permanent seating setup.				J	I		J			G	IOC
Camera Position - Other	4	30	120	270	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	Space for camera positions may vary according to actual venue/permanent seating setup.				J	I		J			G	IOC
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-				J	I		J			G	IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	See also Technology requirements.				J	I		J			G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in Back of House areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.				J	I		J			G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography	J			J	I		J	I		R	IOC
Catering																			
Catering Compound	565	1	565	850	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity. Gross area includes snow removal access.		I		F						P	
Work Areas - Catering Management	28	1	28	-		-	Enclosed space.	Assumes existing space or container.											
Organising Committee Catering Manager	-	-	-	-		Located in Venue Operations Centre.	See Venue Management - VOC.	-											
Catering Contractor	16	1	16	-		-	-	-											
Beverage Contractor	12	1	12	-	Operational work space(s).	-	-	-											
Dry, Cold and Ice Storage	38	6	228	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.											
Vehicle Staging	90	1	90	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-											
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-											
Kitchen and Preparation Area	80	1	80	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.											
Uncovered Storage	75	1	75	-	Outdoor storage of material and products.	-	Area only.	-											
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilets should be provided.											
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit.	-											
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container's). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity and level of catering activity.		I		F						P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	See Look for details.	-	I		F							P	

JUDO

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	I	J	F	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Ceremonies																						
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-													P	
Ceremonies Staging	36	1	36	45	For the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule; to coordinate location of podium, procession, and recession route, and location of flagpoles.	Adjacent to or close to FOP.	Consists of coordinator work space with area for anthem storage, secure storage, preparation and dressing area; see below for additional details.	Assumes existing space or container.													P	
Manager Desk	6	1	6	-	Workspace for Manager.	-	-	-														
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.														
Presenters, Medal/Flower staging, Secure medal and flag storage	22	1	22	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format. Medals storage is not required for those venues where the medal ceremony will take place at another location.														
Presenter Preparation and Dressing	4	2	8	-	A dressing and preparation area for Presenters.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-														
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	Close to FOP.	Limited use, may be shared with other space. See Sport Presentation.	-													P	
Awards Podium Storage	12	1	12	15	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	-													P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.	I	J	J							J	G	R	IOC	
Cleaning and Waste																						
Cleaning & Waste Compound	252	1	252	350	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependant upon venue capacity.							F						P	
Vehicle Staging	72	1	72	-	Parking area for collection vehicles which generally remain inside the venue.	-	Area only.	-														
Sorting Area	72	1	72	-	Area for sorting waste.	-	Area only.	-														
Waste & Recycle Containers	15	4	60	-	Area in front of waste and recycle bins where material is separated for containment.	-	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).														
Compactor Unit	25	Varies	Varies	-		-	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.														
Equipment Supply & Storage	15	2	30	-	Space for cleaning equipment and paper product.	-	Enclosed space.	Assumes container unit.														
Contractor Office	18	1	18	-	Space for management and workforce staging.	-	Enclosed space.	-														
Doping Control																						
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	-	J	J	J										R	IOC
Waiting Area/Reception	26	1	26	30	Area where athletes check-in and wait prior to testing.	-	-	-														
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).														
Blood Processing Room(s)	15	Varies	Varies	20 (each)	Area where athlete blood samples are provided and sealed	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).														
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).														
Office / Storage	12	1	12	15	Wash basin for hand sanitisation. Work and storage space for Doping Manager.	-	Enclosed space. Secure storage.	-														
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-	I	J	J										R	IOC

JUDO

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.										P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of workforce pre-shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large group.	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.										P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.										P	
Information Desk	-	-	-	-	-	-	-	-											
Lost and Found	-	-	-	-	A holding area for items found in the venue.	-	-	-											
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spectators.	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	-	-	Will depend on level of service at venue.										P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes; located between screening/search area and spectator plaza.	Total number generally 50% of security screening positions.										P	
Stroller Storage	Varies	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	In close proximity to seating area.	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.										P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.										P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators										P	
Spectator Shade and Shelter	Varies	Varies	Varies	72 (each)	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and spectator service amenities.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.										P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-										P	
Spectator Toilets	1.5	Varies	Varies	5 (each) 6 (per 20 toilets)	Toilet units designated for spectators.	Located in FOH, close proximity to seating and spectator amenities.	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.										P	
Hand Wash Stations	1	Varies	Varies		A chemical unit used in the absence of potable water.	Located in FOH, close proximity to seating and spectator amenities.	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.										P	

JUDO

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Finance																				
Work Space / Desk	20	1	20	25	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I		F						P		
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Generally located inside venue perimeter and outside venue perimeter.	Area only.	Quantity dependent upon venue capacity.												
Language Services																				
Work Area / Desk	28	1	28	35	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre.	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-		J	J		I					G	IOC	
Simultaneous Interpretation Booth	2	3	6	18	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference needs.	-		J	J		I					G	IOC	
Logistics																				
Logistics Compound	-	1	Varies	650	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access. Secondary Compound Area - an additional compound area may be necessary for staging or storage of equipment that is in close proximity to FOP and/or the finish area.											P	
Logistics Centre	60	1	60	-	-	-	Enclosed space.	Assumes container units or tent.					F							
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-												
Team Staging/Work Area	33	1	33	-	Space for staging and a work area.	-	-	-												
Secure Storage & Equipment Sign-out	15	1	15	-	Area for storage.	-	Storage for tools.	-												
Warehouse Storage	90	1	90	-	Storage area for furniture, fixtures, and equipment (FF&E).	-	Enclosed space.	Assumes tent												
Storage Yard	75	1	75	-	Outside storage area within compound.	-	Area only.	-												
Vehicle Staging	100	1	100	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-												
Fuel Tank(s)	9	Varies	Varies	25 (each)	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.												
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.												
Material Transfer Area (MTA)	-	1	-	575	Generally for deliveries to the venue that may take place after hours or not within the logistics delivery window period.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.					F					P		
X-Ray Area	36	1	36	72	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.												

JUDO

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Look of the Games																				
Work Area and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.					F					P		
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J					J		R	IOC	
National Olympic Committee (NOC) Flags	-	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition sch	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.			J	J				J		R	IOC	
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and back of locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J				J	G	R,P	IOC, IF	
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals.	-												
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH).	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.		I	J	J				J	G	R	IOC, L	
Backdrop - Press Conference Room	2.2 x 6	1	2.2 x 6	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F		I	I					
Medical Services																				
Athlete Medical	65	1	65	100	An area where Medical provides services to athletes competing at the venue.	Located in Back of House within the accredited athlete area.	Enclosed space.	Assumes container or existing space.	J	J	J					J		R	IF	
Reception & Waiting	12	1	12	-	Area where athletes check-in and wait prior to examination.	-	-	-												
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-												
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-												
Physiotherapy Area(s)	8	2	16	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-												
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J					J		R	IF	
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.												
Spectator Medical	50	1	50	100	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed space. 1 per 20,000 spectators.	Assumes container unit or existing space.		I	F		I	I				P		
Reception & Waiting	12	1	12	-	Area where spectators check-in and wait prior to examination.	-	-	-												
Medical Work Space & Secure Storage	12	1	12	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-												
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-												
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Triage Station	36	1	38	72	Additional space to treat minor medical needs of spectators.	Located in the Front of House.	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.		I	F		I	I				P		
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.					F	I		I		P		
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Area only. Paved, graveled or grass area with fence, barricade or rope enclosure.	-					F	I		I		P		

JUDO

Principles of Stakeholder Involvement:
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Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Merchandise																				
Office, Cash Room & Work Area	12	1	12	15		-	Enclosed space with secure entry.	Assumes container unit or existing space.				F						P		
Storage	15	2	30	35	An area to manage the retailing of all Olympic merchandise inside the venue.	-	-	Assumes storage containers or existing space.				F						P		
Program Sales Stands/Booths	1	1	1	2		-	Area only.	Units provided by vendor. Quantity and location decided by vendor and OCOG.				F							P	
Merchandise Points of Sale (POS)	6	Varies	Varies	18 (each)	Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.	Gross area is per each P.O.S. and includes service area and queue.		I		F						P		
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-		I	J	J					G	R	IOC	
Olympic Family Services																				
Olympic Family Lounge	240	1	240	500	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes tent.	I		I	F					I	G	G	IOC
Welcome Desk and Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-	-												
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.	-												
Staff/Volunteer Room and Storage	12	1	12	-	On-call waiting area for Protocol staff and equipment storage.	-	-	-												
Dining and Lounge	140	1	140	-	Area for dining and lounge.	-	-	-												
Preparation/Buffer set-up/Beverage Area	70	1	70	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Staff/Volunteer, Athlete, Media)	-												
Toilets	30	1	30	60	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	4 female, 4 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided				F						P		
Protocol flags	-	-	-	-	-	-	See Look of the Games.	-			J	J						R	IOC	
Press Operations																				
Venue Media Centre (VMC)	400	1	400	600	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Confer	Close proximity to Press Tribune, Press Conference room, and Mixed Zone area.	Numbers may increase if combined with another sport (e.g. wrestling). Enclosed space for 100 press and 20 photographers.	Assumes tent.				F						R	IOC	
Reception & Information Desk	18	1	18	-	Welcome desk at the entrance, for information distribution.	-	-	-												
Storage	4	1	4	-	Equipment storage.	-	-	-												
Press Manager Office	12	1	12	-	Operational work space.	-	-	-												
Photo Manager Office	12	1	12	-	Operational work space.	-	-	-												
Olympic News Service (ONS) Work Room or Area	25	1	25	-	Operational work space.	-	Enclosed space.	-												
Info Stations	20	1	20	-	Computer stations and printers.	-	-	-												
Press Work Room or Area	170	1	170	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.												
Photo Work Room or Area	35	1	35	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.	-												
Photographers Check-in & Photo Bib Distribution	9	1	9	-	Area where photographers register and receive/return photo bibs.	-	-	-												
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.												
Lounge/Catering Prep	70	1	70	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-	-												
Toilets	1.5	6	9	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided												

JUDO

Principles of Stakeholder Involvement:
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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Press Conference Room	100	1	100	210	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I			F						R	IOC	
Seating Area	60	1	60	-	An area for accredited press.	-	Seats and standing room.	-												
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3.6 m table, 8 chairs & step and repeat backdrop.	-												
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-												
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-												
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-				F			I	I				
Mixed Zone	20 linear mtrs.	1	20 linear mtrs.	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I		I	F						R	IOC,IF	
Press Tribune	-	-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	-	Tabled seating is fitted out with telephones, television monitors, power and other press facilities (indoor venues). For outdoor venues, these services will exist in VMC.	-												
Press Tabletop Seating	Varies	Varies	Varies	-	-	Easy access from Venue Media Centre and direct access if possible to Mixed Zone.	In an existing stadium or seating area: 1 seat wide (folding chairs at 60 cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50 cm deep tabletop per position, each position = 2 stadium seats. Temporary Stands: 1 seat (folding chairs at 60 cm spacing) x 2 rows deep of proposed seating system (normally 150 cm-170 cm deep).	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.			I	F					I	R	IOC,IF	
Press Seating (non-tabled)	Varies	Varies	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.			I	F						I	R	IOC,IF
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided												
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-												
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	Close to competition area. Location to be determine between IF and OCOG.	60cm wide x 90cm deep per position, multi-row areas require 60cm riser per row. See Venue Seating for quantities by sport.	Power, Wireless and data cabling needed to photo positions on FOP.	J		I	J						I	R	IOC, IF
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	May vary according to lay out.	See Venue Seating for quantities by sport.	Seating areas are generally not applicable for outdoor venues.	I		I	F						I	G	IOC
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-												

JUDO

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Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Security																				
Security Command Centre	120	1	120	145	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.												
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-												
Security Work Area	15	1	15	-	An area for additional security agencies.	-	-	-												
CCTV Surveillance & Video Desk	15	1	15	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-												
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.												
Radio Dispatch & Monitoring	15	1	15	-	An area for the monitoring and control of security communication and the distribution/return of radios.	-	-	-												
Work Room	50	1	50	-	Open plan of work stations designated for security personnel.	-	-	-												
Secure Storage	10	1	10	-	An area for Security equipment storage.	-	Enclosed, secure space.	-												
Dog Cage(s)	4	Varies	Varies	8 (each)	Holding area for security dogs.	-	Area only for enclosed portable units (e.g. cages).	Dependent upon Host City/Country / Risk Assessment.												
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-												
Briefing and Break Area / Staging Area	140	1	140	170	Area for briefing staff before and after shifts.	-	Enclosed space.	Assumes tent.												
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.												
Vehicle Screening & Sanitisation Area	569	1	569	800	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.												
Vehicle Queue	175	1	175	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-												
Oversized Vehicle Queue	140		140	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-												
Vehicle Sanitisation & Wanding Areas	150		75	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.												
Oversized Vehicle (Truck & Bus) Sanitisation	70		70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-												
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.												
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Enclosed space for staging and break.	-												
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the venue secure perimeter and/or venue screening area for constituents.	-	Dependent upon spectator capacity and venue design.												
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-												
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-												
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-												
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.												

JUDO

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Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the venue secure perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.										R	IOC
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the venue secure perimeter.	Enclosed space for screening/search area positions.. Net area for each screening position will accommodate the following: 4 Wanding Stations, OR 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue. Dependent upon spectator capacity and venue design.											
Athlete / Team	18	1-2	18-36	36-72	-	BOH.	-	-				F						R	IOC
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with Athlete and/or Olympic Family.				F						G	IOC
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with TO, ENG and/or Press.				F						P	
Broadcast	18	1-2	18-36	45-90	-	BOH.	-	If possible, direct access from outside venue perimeter into Broadcast Compound.											
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	BOH; located in close proximity to Venue Broadcast Compound.	-	-											
Press and Photographer	18	1-2	18-36	36-72	-	BOH; located in close proximity to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast).	If possible, direct access from outside venue perimeter into Venue Media Centre.				F	I						
Workforce (Staff/Volunteer/Contractor/Vendor)	18	2-3	36-54	90-135	-	BOH or possibly FOH.	-	-				J	J					P	
Spectator / Sponsors	18	Varies	Varies	54	-	FOH.	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-	I			F						P	
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.				F		I				P	
Exception Gate	Varies	Varies	Varies	-	Access gate for designated accredited personnel.	FOH; located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.				F						P	
X-ray of bags	36	Varies	Varies	72 (each)	Device for screening bags/equipment coming into the venue.	FOH and BOH.	Covered.	-				F	I					P	
Venue Perimeter Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	Dependent upon spectator capacity and venue design.											
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	1m to 3m width, sometimes used as a secondary service vehicle exit point.	-											
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m each, number varies per concourse design.	-											
Workforce (Staff/Volunteer/Contractor/Vendor)	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	Size dependant upon total workforce numbers.				I	F				G	P	
Sponsor Services																			
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.				I	F					P	

JUDO

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Sport Operations																			
Competition Management	100	1	100	140	A work area for Sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located close to Athlete Area and field of play; may be co-located within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space.	I			F						P	
Competition Manager & Asst. Manager Desks	12	1	12	-	An area for the Manager and Assistant(s) Manager.	-	-	-											
Assigned Work Area	23	1	23	-	Open plan of work stations designated for Sport personnel.	-	-	-											
Hot Desks	15	1	15	-	Shared work stations.	-	-	-											
Work Area	50	1	50	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-											
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-											
Sport Information	20	1	20	25	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located in Athlete Area.	Enclosed space with waiting area and seating.	Includes: information boards, pigeon holes, Info & Help Desk, work area, info terminal stations & storage.	J			J						R	IF
Athlete Lounge	100	1	100	140	An area where athletes can relax at the venue while not training or competing.	Located in Athlete Area.	-	Includes: seating area, lounge, Info & Help Desk, info terminal stations.	J			J						R	IF
Athlete Dressing, Locker, Shower, Toilet	25	2	50	75	Change-room facilities to accommodate athletes at the venue during competition and training.	Located in Athlete Area.	Enclosed space. Separate male and female facilities.	Assumes container units or existing space.	J			J						R	IF
IF & Sport Meeting Room	30	1	30	45	Meeting facility at the venue for the International Federation and Competition Management.	Located in close proximity to the IF Area and Competition Management area.	Enclosed space.	Shared meeting room area between IF & Sport to serve various meeting needs.	J			J						G	IF
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	Reference should be made to IJF guidelines for all FOP technical requirements.	-	J			J						R	IF
Playing Surface Dimensions or Area	480	1	480	-	Tatamis.	-	2 contest mats (tatamis) 14m x 14m on a platform that measures 16m x 30m, with a 50cm height.	-	J			J	I					R	IF
Total Required Area Dimensions or Area	40 x 60	1	2400	-	Competition Area.	-	1 competition site (40m x 60m).	-	I			F	I					R	IF
Surface	-	-	-	-	-	-	Tatamis (mats) on platform.	-											
Camera Positions - IF/Team	3.5	2	7	-	-	-	-	-	F			I		I	I			R	IF
Sports Lighting - Technical	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

JUDO

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	-	-	-	J			J	I					R	IF
Warm-up Surface Dimensions or Area	400	1	400	-	-	In close proximity to FOP.	-	Prefer an area of 600 square metres if possible.	J			J	I		I	J		R	IF
Vertical Height Requirement	10	1	10	-	-	-	-	-	F			I			I	I		R	IOC, IF
Surface	-	-	-	-	-	-	Tatamis (mats) on platform but not necessary.	-											
Athlete Staging (Stand-by Area)	30	1	30	-	A controlled area for athletes prior to their competition.	An area between the warm-up area and Field of Play.	Athletes should have viewing capability of contest prior to their own contest.	-	I			F						R	IF
Athlete / Team Seating	-	-	-	-	A designated seating area for athletes.	-	-	-	J	I	J					J			
Same Sport	-	Varies	-	-	-	-	-	-	J	I	J					I		R	IOC,IF
Different Sport	-	Varies	-	-	-	-	-	-	I	I	F				I			R	IOC
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	May be required for Sport Staff use. Quantity varies according to athlete numbers.											P
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	Required if FOP is not located near Athlete Area.	Assumes temporary units. Quantity varies according to athlete numbers.											P
International Federation																			
IF Centre	70	1	70	85	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located in close proximity to accredited seating areas.	Enclosed space.	Assumes container units or existing space.	I	I	F							R	IF
IF President's Office	15	1	15	-	-	-	-	-	I	I	F							R	IF
IF Secretary - General/Executive Director's Office	15	1	15	-	-	-	-	-	I		F							G	IF
Reception, Secretariat, Waiting & Work Area	40	1	40	-	-	-	-	-	I		F							G	IF
Jury Meeting Room	60	1	60	85	Jury office and meeting area.	-	Office Area = 25m ² and meeting room = 60m ² — Enclosed space for 20 persons.	Assumes container units or existing space.	I			F						R	IF
Technical Delegates Office & Work Area	15	1	15	20	Office area for Technical Delegates.	Located adjacent to the Referee and Sport Commission Meeting Area.	Enclosed space. 2 Technical Delegates. May require a temporary wall separating work space.	Assumes container units or existing space.	I	I	F					I		R	IF
Referee & Sport Commission Meeting Area	12	2	24	35	Two meeting rooms for the referees and sport commissions.	Located adjacent to the Technical Delegates office area.	2 enclosed spaces.	May be co-located/connected the with TDs office but separated by a temporary or existing wall	I	I	F					I		R	IF
Technical Officials Meeting Room	100	1	100	125	Meeting area for Technical Officials.	-	Enclosed space for 50 persons.	Consideration should be given for usage of multi-purpose room in VOC.	I	I	F					I		R	IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I	J	J					J		R	IOC,IF
Sport Presentation																			
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.											
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-				F							P
Announcer Position	3	1	3	-	-	-	-	-				F							P
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space, consisting of work area, green room, entertainer staging and dressing and prop storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.											P

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Principles of Stakeholder Involvement:
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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Technology Operations																			
Technology Help Desk	16	1	16	20	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support staff & manager.	-				F						P	
Venue Technology Operations (VTO)	25	1	25	32	OCOG Technology Operations area. Operational work space for entire Venue Technology team, including Partners & contractors.	Adjacent to Venue Operations Centre (VOC) & Technology Help Desk.	Medium security - lockable room. Air-conditioned as office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	-				F					G	P	
OCOG Venue Technology Work Area	-	1	-	-	Work space for Venue Technology Manager, Assistant Venue Technology Manager, Technology Workforce Manager and associated volunteer(s).	-	-	Work space size may be dependent upon workforce per shift.											
AV Contractor Work Area	-	1	-	-	Work space for AV contractors/Technicians.	-	-	Work space size may be dependent upon workforce per shift.											
IT Provider Work Area	-	1	-	-	Work space for IT workforce and "home base" for IT volunteers.	-	-	Work space size may be dependent upon workforce per shift.											
Reprographic Provider Work Area	-	1	-	-	Work space for reprographic contractors/technicians	-	-	Work space size may be dependent upon workforce per shift.											
Mobile Phone Provider Work Area	-	1	-	-	Workspace for mobile phone provider.	-	-	Work space size may be dependent upon workforce per shift. Charging area for Venue Operations workforce phones may be required.											
Wired Communications Provider Work Area	-	1	-	-	Work space for Wired Communications contractors/technicians.	-	-	Work space size may be dependent upon workforce per shift.											
Timing & Scoring/OVR Provider Work Area	-	1	-	-	Work space for OVR/Timing & Scoring contractors/technicians.	-	-	May not be required if adequate working space is allocated in OVR room.											
Radio Distribution Room (RDR)	15	1	15	18	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E and workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).	I			F						P	
Information Technology																			
Computer Equipment Room (CER)	16	1	16	20	Location for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.	I			F					G	P	
Data Local Area Network (LAN) Management Room & Store	25	1	25	32	LAN monitoring room & associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational staff & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces.				F					G	P	

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Telecommunication & Audio Visual																			
Telecomm. Equipment Room (TER) Primary	36	1	36	45	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to or within Venue Technology Operations.	High Security. Fully redundant power (mains & generator) with UPS to all results data entry equipment/workstations. Space & FF&E for all data entry personnel & results management staff. Adequate weather (rain/sun) protection for equipment/workstations to be provided.	-		I		F						P	
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to or within Venue Operations Centre (VOC).	As TER.	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.		I		F						P	
Telecommunications Operations & Store Audio Control Positions	25	1	25	32	Operational space for Telecommunications technical staff and associated storage for spare parts.	Adjacent to TER.	As TER with adequate FF&E to support operational staff & storage.	If located adjacent to TER, power supply boards, UPS units & A/C services can be common for both spaces.		I		F						P	
	-	-	-	-	-	-	-	-				F					G	P	
Venue	4	1	4	8	Area within Sport Production, location for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Production. Can be on FOP, in stands or in a booth with view to FOP.	High Security. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	Storage for country anthems.											
Press Conference	4	1	4	8	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), air-conditioned, waterproof. Work space & FF&E for operator.	PA system may also be used for Competition Draw if draw is held in Press Conference room.											
Warm-Up Area	2	1	2	4	Athlete Call Up PA system required for facilitate call to mat/tatami. Space required for amplifier/microphone.	Within Warm-up area for Athletes.	Standard/mains power & FF&E.	PA system may also be used for Competition Draw if draw is held in Warm-up area.											
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	General for all venues. Exact location for equipment and scope of system is venue specific.											
Workforce Break/Dining	2	Varies	Varies	-	Area within Staff Break/Training room where audio control equipment is installed to facilitate meetings/training of large numbers of staff.	Workforce break/dining areas.	Standard/mains power & FF&E.	-											
Video Board Control	4	1	4	8	Location of video control for video board or video projection system. Operations integral with those of Sport Production.	Ideally with Sport Production. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	-				F					G	P	
Wired Communications Control	2	1	2	4	Location of wired communications master control station and support technician. System essential to operations of both Sport Production and Results/FOP management.	Near to or within Sport Production is preferable. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location is located outdoors. Good cable access to FOP, OVR Room, Sport Production, Broadcast Graphics Room & Results Printing required. Workspace & FF&E for one technician, control equipment, spare parts and containers/boxes for equipment.	-				F					G	P	
Temporary PA equipment Room	2 min	1	2 min	4 min.	Temporary location for installation of PA active equipment (amplifiers etc) for venue PA system.	In existing PA equipment room, if applicable. May be located under venue seating/tribunes if existing room not available.	High Security. Fully redundant power (mains & standby generator) to equipment. Good cable access to speaker location and PA/Audio Control position required. Equipment installed in racks. Each rack set is 1000H x 600W x 600 D maximum.	Number of racks will depend on size of system deployed. Generally venues with large geographic area (outdoor) require larger installation and therefore more racks of amplifier equipment.				F						P	

JUDO

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Timing, Scoring and Results Operations																			
Results Data Entry Position	-	-	-	-	Location(s) for event results and/or statistics data entry during competition.	As noted below	High Security. Fully redundant power (mains & generator) with UPS to all results data entry equipment/workstations. Space & FF&E for all data entry personnel & results management staff.	Adequate weather (rain/sun) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
Field of Play - Tatami 1, 2	2	2	4	8	Areas/positions for results data entry at each Tatami.	Position located at each Tatami on FOP with timing, scoring & sport mat officials.	Cable access to OVR, Main Judges Table & Jury of Appeal.	May occur as a position on the FOP, or in a room with a view to the FOP.											
Field of Play - Official Table	3	1	3	6	Area/position for results data entry and event management.	Position located at Officials Table on FOP.	-	-											
Timing and Scoring Position	-	-	-	-	Location(s) for event timing & scoring personnel & equipment during competition.	Sport Specific. However, all locations must have view to FOP	High Security Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards & OVR room. Space & FF&E for operators and equipment. Adequate weather (rain/sun) protection for equipment/workstations to be provided.	-	I	I	I	F						R	IF, Swatch
Field of Play - Tatami 1, 2	2	2	4	8	-	Position located at each Tatami on FOP with data entry & sport Tatami officials.	-	-											
Control Room	0	0	-	-	-	-	-	-											
On Venue Results (OVR)	-	-	-	-	Location is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	Easy access to FOP critical for technical and results staff.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Space & FF&E required for high density of computer workstations, racks for servers and working space for technicians, operators and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with concurrently will require more space for additional OVR equipment.				F						P	
OVR Provider Work Area	20	1	20	25	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO/CIS/PRD etc).	Ideally adjacent to IT provider work area.	Space required in OVR to support RTDS equipment.	-											
IT Provider Work Area	18	1	18	23	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-											
Scoreboard Control	-	-	-	-	Location of scoreboard control operations. Operations integral with those of Sport Production, data provided from OVR System. Space for both Control and Interface workstations & 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.	I			F					G	P	
Scoreboard Control	2	1	2	4	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator & workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-											
Scoreboard Interface	2	1	2	4	Area for interface equipment (PC workstations) linking OVR system & Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-											
Results Printing (PRD)	60	1	60	75	Location for hard copy results production & distribution. Location of high intensity work involving many staff preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area & position for the Print Distribution Workstation (IDS interface) equipment and operator.	Near/adjacent to Press Workroom, access to Press Tribunes, Broadcast Commentary Positions, Sport Information Desk, Doping & Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specification. Space & FF&E required for equipment and operational staff as well as space for 1 x pallet of paper to support print/copy operations.	-	I	I	I	F						R	IF, Swatch
TV Graphics Interface	6	2	12	15	Locations where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics for each FOP/Tatami of JU.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operators & good cable access to OVR room.	-				I		F		G	P		

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Technology Storage																			
Technology General Storage	15	1	15	18	Location for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F					G	P	
IT Bulk Storage	30	1	30	38	Storage area for all spare IT equipment & associated boxes/containers.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to IT provider at all times.				F					G	P	
Reprographic Primary Storage Area	12	1	12	15	Primary storage/technical area in-venue for reprographic provider. Storage for spare parts, additional devices and consumables serving primarily Results Printing Operations.	In venue location adjacent to, or within Results Printing Room.	High Security - lockable. Standard office environment with standard power. Workspace & FF&E for one technician.	-	I		F						G	P	
Reprographic Bulk Storage Area	20	1	20	25	Storage area for bulk paper allocated to venue (multiple pallets).	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of paper required to support venue operations.				F					G	P	
Timing and Scoring Workshop	10	1	10	13	In venue storage & workshop for timing equipment, spare parts & small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.	-	I		F						G	P	
Timing & Scoring Bulk Store	30	1	30	38	Storage area for large crates & containers used for scoreboards and bulk equipment. Must be accessible to OVR provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of Timing & Scoring equipment deployed to venue. May be combined with Timing & Scoring Workshop if location & size of space meet requirements for venue.				F					G	P	
Audio Visual Bulk Store	30	1	30	38	Storage area for large crates & containers used for video boards, PA equipment & TV boxes. Must be accessible to Video/Public address provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of audio/video equipment deployed to venue.				F					G	P	
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closet. CCFs are to be installed in locations that allow for easy access for service technicians and which allow for easy cable access both from TER room and to user device locations.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Work Room.	High Security - lockable and weatherproof. May require fan or dedicated A/C depending on room location and/or configuration. Fully redundant power (mains and generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.	I		F							P	
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of power from data/voice and audio-visual cabling.	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in an manner which allows for easy access and repair/replacement. Legacy installations are to be installed as permanent while temporary (overlay) should be installed using methods which are easily installed and removed minimising potential damage to existing venue.				F						P	
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.	-	-	-											
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.	-	-	-											
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.	-	-	-											

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CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	-											
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	-											
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-											
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-											
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-											
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-											
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-											
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing and Scoring/OVR contractor.	I		F							P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.											
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I		F							P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the videoboard. Required for outdoor venues where the videoboard cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each videoboard.											
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Production on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I		F						G	P	
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to/from audio/PA amplification system and/or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend PA speakers from venue ceiling structure.	-	-	-											
Mobile Phone Infrastructure (antenna)	-	Varies	-	-	Infrastructure required to support installation of additional radio antenna & mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to/from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.	I		F						G	P	

JUDO

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Ticketing																			
Ticket Box Office	40	1	40	100	An area at the venue where Olympic tickets are sold.	Adjacent to the secure perimeter; near the spectator entry point of the venue	Gross area includes internal & external queue.	Assumes container unit with disabled access to internal and external service window. Dependant upon venue layout and footprint, spectator access point locations.										P	
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	15	1	15	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s)	15	1	15	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	25	1	25	50	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.										P	
Driver Staging	80	1	80	150	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.										P	
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside venue secure perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	20	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-										P	
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from Host City, based on vehicle/bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J							P	
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J							P	
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F						P	
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.				F						G	IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.				F						G	IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.	I			F						G	IOC
Spectator and Staff Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				F						P	
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.	I			F						P	
Accessible	-	-	-	-	-	-	-	Part of Spectator total.				F						P	
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Surface areas paved or gravel.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have drop-off in close proximity to accredited entry point and then driver will park.			I	F						P	
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.				F						P	
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.				F						P	
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-			J	J						P	
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes vehicle circulation.				F						P	
Emergency Services	-	-	-	50 (each)	-	Generally located inside the Secure Venue Perimeter.	-	Includes vehicle circulation.				F						P	

JUDO

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Venue Development																				
Site Management Compound	503	1	503	650	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Dependent upon venue footprint, extent of temporary works and number of contractors.										P		
Site Management Area	60	1	60	-	-	-	Enclosed space.	-												
Site Manager & Assistant Site Manager(s) Work Area	12	1	12	-	Work and meeting area for the Site Manager and Assistant Site Manager.	-	-	-												
Site Administration Desk & Work Area	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-	-												
Response Team & Vendor Staging	24	1	24	-	On-site permanent and temporary facilities for specialty staff and general labor crew to be on-call.	-	-	-												
Secure Storage - Site Management	12	1	12	-	Area for storage.	-	-	-												
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.	-	Enclosed space. Area for office, staging and a secure storage area.	Assumes container units or existing space. Contractor usually installs container units at their own cost.												
Sign/Look Staging, Work Space/Secure Storage	50	1	50	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	-	Assumes container unit or existing space.												
Material Warehouse/Construction Work Space	80	1	80	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	-	Enclosed space.	Assumes tent or canopy with 2 side walls. Area for carpentry, painting and general construction. Storage for non-weather proof materials.												
Vendor Secure Storage	60	1	60	-	Area for containers, usually provided by the various temporary construction sub-contractors.	-	Enclosed space.	Assumes container units or existing space.												
Materials Staging Area	50	1	50	-	Area for the off-loading and loading of bulk construction materials.	-	Area only.	-												
Exterior Storage Area	50	1	50	-	Outdoor storage of material and products.	-	Area only.	Weatherproof area for large and bulk materials.												
Vehicle Staging	90	1	90	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	-	Area only.	Service, Repair & Specialty vehicles.												
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.	I			F							P	
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.	-	I			F							P	
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.	I			F							P	
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.												
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-	-												

JUDO

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Venue Management																			
Venue Operations Centre (VOC)	60	1	60	90	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Dependent upon venue capacity and venue layout.										P	
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-											
Assigned Desks	20	1	20	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Space and Storage	18	1	18	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	40	1	40	50	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.										P	
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail.	-	-	-											
Communication Operators (VCC Operators)	24	1	24	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	-											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	150	1	150	180	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre.	Enclosed space. Assumes existing space.	Potential User Groups: 1. Venue Staff daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.										P	
Workforce																			
Workforce Area	150	1	150	180	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.										P	
Check-In Area	96	1	96	-	Area to log-in venue staff and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Area	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	335	1	335	400	The space where workforce meals are served and where workforce can break during their shift.	A location that will provide easy access to all workforce for breaks and meals; will vary according to venue layout/size.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon venue workforce numbers.										P	
END OF DOCUMENT																			

MODERN PENTATHLON

Principles of Stakeholder Involvement:
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Accreditation																							
Venue Accreditation Office	40	1	40	100	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.											P	-			
Day Pass Issue & Problem Resolution Desk	10	1	10	-																			
Work Area	12	1	12	-																			
Manager Desk or Office & Storage	12	1	12	-																			
Waiting Area	6	1	6	-																			
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	-	Enclosed space. Required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.											P	-			
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.															
Broadcast																							
Broadcast Compound	-	1	-	2500	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements.															
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Gross area includes snow removal access. Assumes container unit.															
Broadcast Manager Office	12	1	12	-		-	-	-	-														
Work Room, Assigned and Unassigned Desks	48	1	48	-		-	-	-	-														
Technical Operations Centre	30	1	30	75	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Broadcast Catering	105	1	105	122	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	-															
Kitchen and Prep	15	1	15	-		-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.														
Buffet Line and Dining	90	1	90	-		-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.														
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements.															
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-															
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters.															
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-															
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.															
Toilets	1.5	4	6	18	Toilet units designated for broadcast personnel.	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.															
Commentator Control Room (CCR)	45	1	45	55	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in close proximity to commentator position area.	Enclosed space with incoming television cable.	Assumes existing space or container unit.															
Broadcast Information Office (BIO)	12	1	12	15	Space for broadcast management and team meetings.	Located near commentator positions and CCR	Enclosed space.	Assumes existing space or container unit.															
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-															
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J												
Mixed Zone	20	1	20	120	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Adjacent to the FOP.	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I	I	J												
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in seating areas with view to FOP and covered when possible.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Outdoor commentator positions should have the option of cover for protection from various weather conditions (e.g. sun, rain). Depending upon the nature and proximity of the venue location to others, one set of commentary positions can be used for the competitions.															

MODERN PENTATHLON

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Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	Located at the rear of the commentator grouping so as not to disrupt the FOP view of other commentator positions.	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	A com-cam position equals 2 adjacent commentator positions.			I	J							
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions.	1 position = uses 1 seat in existing seating bowls.	-			I	J						R	IOC
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval. Space for camera positions may vary according to actual venue/permanent seating setup.	J		I	J						R	IOC
Camera Position - Other	4	20	80	180	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	Space for camera positions may vary according to actual venue/permanent seating setup.	I		I	J						R	IOC
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-					J	I				G	IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	See also Technology requirements.					J	I				G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in Back of House areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.					J	I				G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography	J			J	I					R	IOC
Catering																			
Catering Compound	394	1	394	600	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity. Gross area includes snow removal access.		I		F						P	
Work Areas - Catering Management	24	1	24	-		-	Enclosed space.	Assumes existing space or container.											
Organising Committee Catering Manager	-	-	-	-		Located in Venue Operations Centre.	See Venue Management - VOC.	-											
Catering Contractor	12	1	12	-		-	-	-											
Beverage Contractor	12	1	12	-	Operational work space(s).	-	-	-											
Dry, Cold and Ice Storage	38	4	152	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.											
Vehicle Staging	50	1	50	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-											
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-											
Kitchen and Preparation Area	54	1	54	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.											
Uncovered Storage	50	1	50	-	Outdoor storage of material and products.	-	Area only.	-											
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilets should be provided.											
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit.	-											
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container's). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity and level of catering activity.		I		F						P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	See Look for details.	-		I		F						P	

MODERN PENTATHLON

Principles of Stakeholder Involvement:
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Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Ceremonies																			
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-			I	F						P	
Ceremonies Staging	20	1	20	25	For the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule; to coordinate location of podium, procession, and recession route, and location of flagpoles.	Adjacent to or close to FOP.	Consists of coordinator work space with area for anthem storage, secure storage, preparation and dressing area; see below for additional details.	Assumes existing space or container.			I	F						P	
Manager Desk	6	1	6	-	Workspace for Manager.	-	-	-											
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.											
Presenters, Medal/Flower staging, Secure medal and flag storage	12	1	12	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format. Medals storage is not required for those venues where the medal ceremony will take place at another location.											
Presenter Preparation & Dressing	4	2	8	-	A dressing and preparation area for Presenters.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-											
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	Close to FOP.	Limited use, may be shared with other space. See Sport Presentation.	-		I	F							P	
Awards Podium Storage	8	1	8	12	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	-			I	F						P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.	I	J	J					J	G	R	IOC
Cleaning and Waste																			
Cleaning & Waste Compound	175	1	175	250	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependant upon venue capacity.				F						P	
Vehicle Staging	50	1	50	-	Parking area for collection vehicles which generally remain inside the venue.	-	Area only.	-											
Sorting Area	50	1	50	-	Area for sorting waste.	-	Area only.	-											
Waste & Recycle Containers	15	3	45	-	Area in front of waste and recycle bins where material is separated for containment.	-	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).											
Compactor Unit	25	Varies	Varies	-		-	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.											
Equipment Supply & Storage	15	1	15	-	Space for cleaning equipment and paper product.	-	Enclosed space.	Assumes container unit.											
Contractor Office	15	1	15	-	Space for management and workforce staging.	-	Enclosed space.	-											
Doping Control																			
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	An Office and storage area will be incorporated into the existing spaces (e.g. waiting area/reception).	J	J	J							R	IOC
Waiting Area/Reception	16	1	16	20	Area where athletes check-in and wait prior to testing.	-	-	-											
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).											
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer. Wash basin for hand sanitisation.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).											
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-	I	J	J							R	IOC

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Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.					F					P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of workforce pre-shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large group.	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.					F					P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.					F					P	
Information Desk	-	-	-	-	-	-	-	-											
Lost and Found	-	-	-	-	A holding area for items found in the venue.	-	-	-											
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spectators.	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	-	-	Will depend on level of service at venue.					F					P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes; located between screening/search area and spectator plaza.	Total number generally 50% of security screening positions.					F					P	
Stroller Storage	Varies	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	In close proximity to seating area.	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.					F					P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.					F					P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators					F					P	
Spectator Shade and Shelter	Varies	Varies	Varies	72 (each)	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and spectator service amenities.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.					F					P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-					F					P	
Spectator Toilets	1.5	Varies	Varies	5 (each) 6 (per 20 toilets)	Toilet units designated for spectators.	Located in FOH, close proximity to seating and spectator amenities.	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.					F					P	
Hand Wash Stations	1	Varies	Varies		A chemical unit used in the absence of potable water.	Located in FOH, close proximity to seating and spectator amenities.	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.					F					P	

MODERN PENTATHLON

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Finance																				
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I			F					P		
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Generally located inside venue perimeter and outside venue perimeter.	Area only.	Quantity dependent upon venue capacity.												
Language Services																				
Work Area / Desk	15	1	15	20	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre.	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-		J	J			I				G	IOC	
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference needs.	-		J	J			I				G	IOC	
Logistics																				
Logistics Compound	-	1	Varies	500	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access. Secondary Compound Area - an additional compound area may be necessary for staging or storage of equipment that is in close proximity to FOP and/or the finish area.											P	
Logistics Centre	40	1	40	-	-	-	Enclosed space.	Assumes container units or tent.												
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-												
Team Staging/Work Area	25	1	25	-	Space for staging and a work area.	-	-	-												
Secure Storage & Equipment Sign-out	12	1	12	-	Area for storage.	-	Storage for tools.	-												
Warehouse Storage	65	1	65	-	Storage area for furniture, fixtures, and equipment (FF&E).	-	Enclosed space.	Assumes tent												
Storage Yard	50	1	50	-	Outside storage area within compound.	-	Area only.	-												
Vehicle Staging	75	1	75	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-												
Fuel Tank(s)	9	Varies	Varies	-	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.												
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.												
Material Transfer Area (MTA)	-	1	-	400	Generally for deliveries to the venue that may take place after hours or not within the logistics delivery window period.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.											P	
X-Ray Area	18	1	18	36	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.												

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Look of the Games																				
Work Area and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.					F					P		
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J					J		R	IOC	
National Olympic Committee (NOC) Flags	-	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition sch	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.			J	J				J		R	IOC	
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and back of locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J				J	G	R,P	IOC, IF	
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals.	-												
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH).	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.		I	J	J				J	G	R	IOC, L	
Backdrop - Press Conference Room	2.2 x 6	1	2.2 x 6	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F		I	I					
Medical Services																				
Athlete Medical	50	1	50	75	An area where Medical provides services to athletes competing at the venue.	Located within the accredited Athlete Area.	Enclosed air-conditioned space.	Assumes container or existing space.	J	J	J					J		R	IF	
Reception & Waiting	10	1	10	-	Area where athletes check-in and wait prior to examination.	-	-	-												
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-												
Examination Area(s)	8	2	16	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-												
Physiotherapy Area(s)	8	1	8	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-												
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J					J		R	IF	
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.												
Spectator Medical	40	1	40	80	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed air-conditioned space. 1 per 20,000 spectators.	Assumes container unit or existing space.		I	F		I	I				P		
Reception & Waiting	10	1	10	-	Area where spectators check-in and wait prior to examination.	-	-	-												
Medical Work Space & Secure Storage	8	1	8	-	Space for Medical workforce.	-	-	-												
Examination Area(s)	8	2	16	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-												
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Triage Station	9	1	9	18	Additional space to treat minor medical needs of spectators.	Located in the Front of House.	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.		I	F		I	I				P		
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.				F	I	I				P		
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Paved, graveled or grass area with fence, barricade or rope enclosure.	-			F	I	I					P		

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Merchandise																							
Office, Cash Room & Work Area	12	1	12	15	An area to manage the retailing of all Olympic merchandise inside the venue.	-	Enclosed space with secure entry.	Assumes container unit or existing space.													P		
Storage	15	1	15	20		-	-	Assumes storage containers or existing space.														P	
Program Sales Stands/Booths	1	1	1	2		-	Area only.	Units provided by vendor. Quantity and location decided by vendor and OCOG.														P	
Merchandise Points of Sale (POS)	6	Varies	Varies	18		Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.	Gross area is per each P.O.S. and includes service area and queue.				I		F							P	
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-					I	J	J					G	R	IOC	
Olympic Family Services																							
Olympic Family Lounge	162	1	162	370	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes tent.				I		F						I	G	G	IOC
Welcome Desk & Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-	-															
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.	-															
Staff/Volunteer Room & Storage	9	1	9	-	On-call waiting area for Protocol staff and equipment storage.	-	-	-															
Dining & Lounge	90	1	90	-	Area for dining and lounge.	-	-	-															
Preparation/Buffer set-up/Beverage Area	45	1	45	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Staff/Volunteer, Athlete, Media)	-															
Toilets	20	1	20	40	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	2 female, 2 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided														P	
Protocol flags	-	-	-	-	-	-	See Look of the Games.	-					J	J								R	IOC
Press Operations																							
Venue Media Centre (VMC)	400	1	400	600	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Confer	Close proximity to Press Tribune, Press Conference room, and Mixed Zone area.	Enclosed space for 100 press and 20 photographers.	Assumes tent. Usually the workroom is at the Equestrian/running venue for the finish of the event. However, could be an existing workroom centrally located to all Mod Pen venues if very close.							F						R	IOC	
Reception & Information Desk	18	1	18	-	Welcome desk at the entrance, for information distribution.	-	-	-															
Storage	4	1	4	-	Equipment storage.	-	-	-															
Press Manager Office	12	1	12	-	Operational work space.	-	-	-															
Photo Manager Office	12	1	12	-	Operational work space.	-	-	-															
Olympic News Service (ONS) Work Room or Area	25	1	25	-	Operational work space.	-	Enclosed space.	-															
Info Stations	20	1	20	-	Computer stations and printers.	-	-	-															
Press Work Room or Area	170	1	170	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.															
Photo Work Room or Area	35	1	35	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.	-															
Photographers Check-in & Photo Bib Distribution	9	1	9	-	Area where photographers register and receive/return photo bibs.	-	-	-															
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.															
Lounge/Catering Prep	70	1	70	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-	-															
Toilets	1.5	6	9	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided															

MODERN PENTATHLON

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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Press Conference Room	100	1	100	210	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I			F						R	IOC	
Seating Area	60	1	60	-	An area for accredited press.	-	Seats and standing room.	-												
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3.6 m table, 8 chairs & step and repeat backdrop.	-												
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-												
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-												
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-				F			I	I				
Mixed Zone	20 linear mtrs.	1	20 linear mtrs.	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I		I	F						R	IOC,IF	
Press Tribune	-	-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	-	Tabled seating is fitted out with telephones, television monitors, power and other press facilities (indoor venues). For outdoor venues, these services will exist in VMC.	-												
Press Tabletop Seating	Varies	Varies	Varies	-	-	Easy access from Venue Media Centre and direct access if possible to Mixed Zone.	In an existing stadium or seating area: 1 seat wide (folding chairs at 60 cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50 cm deep tabletop per position, each position = 2 stadium seats. Temporary Stands: 1 seat (folding chairs at 60 cm spacing) x 2 rows deep of proposed seating system (normally 150 cm-170 cm deep).	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.			I	F						R	IOC,IF	
Press Seating (non-tabled)	Varies	Varies	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.			I	F						R	IOC,IF	
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided												
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-												
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	In close proximity to FOP.	60cm wide x 90cm deep per position, multi-row areas require 60cm riser per row. See Venue Seating for quantities by sport.	Power, Wireless and data cabling needed to photo positions on FOP.	J		I	J						R	IOC, IF	
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Normal seating areas.	See Venue Seating for quantities by sport.	Seating areas are generally not applicable for outdoor venues.	I		I	F						G	IOC	
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-												

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Security																						
Security Command Centre	100	1	100	120	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.											P			
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-														
Security Work Area	15	1	15	-	An area for additional security agencies.	-	-	-														
CCTV Surveillance & Video Desk	12	1	12	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-														
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.														
Radio Dispatch & Monitoring	12	1	12	-	An area for the monitoring and control of security communication and the distribution/return of radios.	-	-	-														
Work Room	40	1	40	-	Open plan of work stations designated for security personnel.	-	-	-														
Secure Storage	8	1	8	-	An area for Security equipment storage.	-	Enclosed, secure space.	-														
Dog Cage(s)	4	Varies	Varies	8 (each)	Holding area for security dogs.	-	Area only for enclosed portable units (e.g. cages).	Dependent upon Host City/Country / Risk Assessment.							F							
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-												P		
Briefing and Break Area / Staging Area	75	1	75	-	Area for briefing staff before and after shifts.	-	Enclosed space.	Assumes tent.														
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.							J	J				P		
Vehicle Screening & Sanitisation Area	377	1	377	500	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.												P		
Vehicle Queue	100	1	100	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-														
Oversized Vehicle Queue	70	1	70	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-														
Vehicle Sanitisation & Wanding Areas	100	1	100	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.														
Oversized Vehicle (Truck & Bus) Sanitisation	70	-	70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-														
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.														
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Enclosed space for staging and break.	-														
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.														
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the venue secure perimeter and/or venue screening area for constituents.	-	Dependent upon spectator capacity and venue design.												F	G	P
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-														
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-	I			F								P		
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-	I			F								P		
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.	I	I		F								P		

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Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the venue secure perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.										R	IOC
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the venue secure perimeter.	Enclosed space for screening/search area positions.. Net area for each screening position will accommodate the following: 4 Wanding Stations, OR 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue. Dependent upon spectator capacity and venue design.											
Athlete / Team	18	1-2	18-36	36-72	-	BOH.	-	-				F						R	IOC
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with Athlete and/or Olympic Family.				F						G	IOC
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with TO, ENG and/or Press.				F						P	
Broadcast	18	1-2	18-36	45-90	-	BOH.	-	If possible, direct access from outside venue perimeter into Broadcast Compound.											
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	BOH; located in close proximity to Venue Broadcast Compound.	-	-											
Press and Photographer	18	1-2	18-36	36-72	-	BOH; located in close proximity to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast).	If possible, direct access from outside venue perimeter into Venue Media Centre.				F	I						
Workforce (Staff/Volunteer/Contractor/Vendor)	18	2-3	36-54	90-135	-	BOH or possibly FOH.	-	-				J	J					P	
Spectator / Sponsors	18	Varies	Varies	54	-	FOH.	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-	I			F						P	
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.				F		I				P	
Exception Gate	Varies	Varies	Varies	-	Access gate for designated accredited personnel.	FOH; located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.				F						P	
X-ray of bags	36	Varies	Varies	72 (each)	Device for screening bags/equipment coming into the venue.	FOH and BOH.	Covered.	-				F	I					P	
Venue Perimeter Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	Dependent upon spectator capacity and venue design.											
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	1m to 3m width, sometimes used as a secondary service vehicle exit point.	-											
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m each, number varies per concourse design.	-											
Workforce (Staff/Volunteer/Contractor/Vendor)	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	Size dependant upon total workforce numbers.				I	F				G	P	
Sponsor Services																			
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.				I	F					P	

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Sport Operations																			
Competition Management	45	1	45	70	A work area for Sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located close to Athlete Area and FOP; may be co-located within the Venue Operations Centre.	Enclosed space.	Number of offices and size may vary according to venues (e.g. only 1 small office is required at the Swimming event if a different venue is required). Assumes container units or existing space.	I									P	
Competition Manager & Asst. Manager Desks	12	1	12	-	An area for the Manager and Assistant(s) Manager.	-	-	-											
Assigned Work Area	15	1	12	-	Open plan of work stations designated for Sport personnel.	-	-	-											
Hot Desks	6	1	18	-	Shared work stations.	-	-	-											
Work Area	12	1	12	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-											
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-											
Sport Information	30	1	30	35	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located in Athlete Area.	Enclosed space with waiting area and seating.	Number and size may vary according to venues. If events can be co-located within one venue area, there will only be a requirement for 1. Includes: information boards, pigeon holes, Info & Help Desk, work area, info terminal stations & storage.	J		J							R	IF
Athlete Lounge	40	1	40	65	An area where athletes can relax at the venue while not training or competing.	Located in Athlete Area.	Enclosed space.	May require a lounge at Shoot/Fence and a lounge at Ride/Run. If events can be co-located within one venue area, there will only be a requirement for one lounge. Includes: seating area, lounge, Info & Help Desk, info terminal stations.	J		J							R	IF
Athlete Dressing, Locker, Shower, Toilet	60	3 Varies	180	220	Change-room facilities to accommodate athletes at the venue during competition and training.	Located in Athlete area; a facility that can be accessed from all event locations (Shoot/Fence,Swim,Ride/Run).	Enclosed space. Separate male and female facilities.	If events can be co-located within one venue area, there will only be a requirement for one facility. Assumes container units or existing space.	J		J							R	IF
IF & Sport Meeting Room	30	1	30	45	Meeting facility at the venue for the International Federation and Competition Management.	Located in close proximity to the IF Area and Competition Management area.	Enclosed space.	Shared meeting room area between IF & Sport to serve various meeting needs.	J		J							G	IF
Sport Equipment Storage	50	3	150	175	Storage for athlete/team sport equipment.	Located adjacent to FOP or within close proximity.	Storage at Shoot/Fence, Swim, and Ride/Run.	Assumes container units or existing space.	J		J	I						R	IF
FOP Equipment Storage	-	-	-	-	Storage of equipment required for competition.	Located adjacent to FOP or within close proximity.	Storage at Shoot/fence for targets & pistes. Storage at Ride/run for obstacles, barriers and stables for horses. See UIPM Guidelines for specific size requirements.	-	I		F	I						R	IF
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	Reference should be made to UIPM guidelines for all FOP technical requirements.	-											
Playing Surface Dimensions or Area	-	-	-	-	-	In close proximity to other FOP areas that are required for the Modern Pentathlon Competition.	-	-	F		I			I	I			R	IF
Shoot/Fence	1500	1	1500	-	-	-	Shooting: 10m indoor air pistol shooting range; firing line is 2m x 18m.	Spectator seating starts 5m behind firing line. Shooting 32 targets = min 36m.											
Swim	1000-1500	1	1000-1500	-	-	-	Swimming: 50m x 21m pool. 1.8m depth with 8 lanes.	-											
Ride/Run	10 000	1	10 000	-	-	-	Riding: show jumping competition with 350-450 metre length. Running: 3000m cross country course.	-											
Vertical Height Requirement	10	1	10	-	-	-	Shooting & Fencing: height based on spectator stands setup.	-											
Surface	-	-	-	-	-	-	1. Shooting and Fencing - hall with floor. 2. Swim - pool. 3. Ride - grass area for horse competition. 4. Run - running can be on any kind of surface.	-	J		J	I				J		R	IF
Sports Lighting - Technical	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											
Camera Positions - IF/Team, Biomechanics	20	1	20	-	-	-	A camera position at each discipline/event.	-											

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Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	-	For Shoot, Fence, Swim & Run warm-up, they will take place using each competition facility. A separate warm-up area is required for the ride, next to the ride FOP.													
Warm-up Surface Dimensions or Area	-	-	-	-		-			J		J			I	J			R	IF	
Ride	8000	1	8000	-		-	Ride warm-up is located in close proximity to Ride FOP.													
Surface	-	-	-	-		-		Grass and/or sand for Ride.	J		J	I					J	R	IF	
Athlete / Team Seating	-	-	-	-	A designated seating area for athletes.	-			J		J							R	IF	
Same Sport	-	Varies	-	-		-			J		J							R	IOC,IF	
Different Sport	-	Varies	-	-		-			I		I	F						R	IOC	
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-							F						P	
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-		Required if FOP is not located near Athlete Area.					F						P	
International Federation																				
IF Area	60	1	60	65	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located in close proximity to accredited seating areas.	Enclosed space.	Assumes container units or existing space. Depending on number of venues, if different locations (events not co-located in one venue), there may be a requirement for IF areas, one at Fence/Shoot & one at Ride/Run.	I		I	F							R	IF
IF President's Office	15	1	15	-		-			I		I	F							R	IF
IF Secretary - General/Executive Director's Office	15	1	15	-		-			I		F								G	IF
Reception, Secretariat, Waiting & Work Area	30	1	30	-		-			I		F								G	IF
Jury & Appeals Room	20	1	20	25	This space is utilised for the resolution of protests and appeals after competition.	-	Enclosed space.	Assumes container units or existing space. Depending on number of venues, if different locations (events not co-located in one venue) there should be one Jury & Appeals room at each: Fence/Shoot, Ride/Run.	I			F							R	IF
Officials Lounge	20	1	20	25	A rest area for officials.	-	Enclosed space.	Assumes container units or existing space. Depending on number of venues, if different locations (events not co-located in one venue) there should be one room at each: Fence/Shoot, Ride/Run.	J			J							G	IF
Officials Locker Room, Shower, Toilet	60	1	60	70	A change area for officials.	-	Enclosed space.	Assumes container units or existing space. Depending on number of venues, if different locations (events not co-located in one venue) there should be a facility at each: Fence/Shoot, Ride/Run.	I			F							R	IF
Technical Delegates Office & Work Area	15	1	15	20	Office area for Technical Delegates.	-	Enclosed space. 2 Technical Delegates. Serves all events: Shoot/Fence, Swim, and Ride/Run.	Assumes container units or existing space.	I		I	F							R	IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.			I		J	J							R	IOC,IF
Sport Presentation																				
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-		See Technology for additional requirements of Sport Presentation.												
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.						F						P	
Announcer Position	3	1	3	-									F						P	
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space, consisting of work area, green room, entertainer staging and dressing and prop storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.					F							P

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Technology Operations																			
Technology Help Desk	16	1	16	20	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support staff & manager.	-				F						P	
Venue Technology Operations (VTO)	25	1	25	32	OCOG Technology Operations area. Operational work space for entire Venue Technology team, including Partners & contractors.	Adjacent to or within Venue Operations Centre (VOC).	Medium security - lockable room. Air-conditioned as office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	-				F					G	P	
OCOG Venue Technology Work Area	-	1	-	-	Work space for Venue Technology Manager, Assistant Venue Technology Manager, Technology Workforce Manager and associated volunteer(s).	-	-	Work space size may be dependent upon workforce per shift.											
AV Contractor Work Area	-	1	-	-	Work space for AV contractors/Technicians.	-	-	Work space size may be dependent upon workforce per shift.											
IT Provider Work Area	-	1	-	-	Work space for IT workforce and "home base" for IT volunteers.	-	-	Work space size may be dependent upon workforce per shift.											
Reprographic Provider Work Area	-	1	-	-	Work space for reprographic contractors/technicians	-	-	Work space size may be dependent upon workforce per shift.											
Mobile Phone Provider Work Area	-	1	-	-	Workspace for mobile phone provider.	-	-	Work space size may be dependent upon workforce per shift. Charging area for Venue Operations workforce phones may be required.											
Wired Communications Provider Work Area	-	1	-	-	Work space for Wired Communications contractors/technicians.	-	-	Work space size may be dependent upon workforce per shift.											
Timing & Scoring/OVR Provider Work Area	-	1	-	-	Work space for OVR/Timing & Scoring contractors/technicians.	-	-	May not be required if adequate working space is allocated in OVR room.											
Radio Distribution Room (RDR)	15	1	15	18	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E and workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).	I			F						P	
Information Technology																			
Computer Equipment Room (CER)	16	1	16	20	Location for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.	I			F					G	P	
Data Local Area Network (LAN) Management Room & Store	25	1	25	32	LAN monitoring room & associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational staff & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces.				F					G	P	

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Telecommunication & Audio Visual																			
Telecomm. Equipment Room (TER) Primary	36	1	36	45	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	Raised flooring is preferable for cabling distribution, but not essential.		I		F							P
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER.	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.		I		F							P
Telecomm. Operations & Store	25	1	25	32	Operational space for Telecommunications technical staff and associated storage for spare parts.	Adjacent to TER.	As TER with adequate FF&E to support operational staff & storage.	If located adjacent to TER, power supply boards, UPS units & A/C services can be common for both spaces.		I		F							P
Audio Control Positions	-	-	-	-	-	-	-	-				F						G	P
Venue	12	3	36	45	Area within Sport Production, location for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Production. Can be on FOP, in stands or in a booth with view to FOP.	High Security. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	Storage for country anthems.											
Press Conference	4	1	4	8	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), air-conditioned, waterproof. Work space & FF&E for operator.	PA system may also be used for Competition Draw if draw is held in Press Conference room.											
Warm-Up Area	0	0	0	-	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Within Warm-up area for Athletes.	Standard/mains power & FF&E.	-											
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-											
Workforce Break/Dining	2	Varies	Varies	-	Area within Staff Break/Training room where audio control equipment is installed to facilitate meetings/training of large numbers of staff.	Workforce break/dining areas.	Standard/mains power & FF&E.	-											
Video Board Control	4	1	4	8	Location of video control for video board or video projection system. Operations integral with those of Sport Production.	Ideally with Sport Production. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	-				F						G	P
Wired Communications Control	2	1	2	4	Location of wired communications master control station and support technician. System essential to operations of both Sport Production and Results/FOP management.	Near to or within Sport Production is preferable. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location is located outdoors. Good cable access to FOP, OVR Room, Sport Production, Broadcast Graphics Room & Results Printing required. Workspace & FF&E for one technician, control equipment, spare parts and containers/boxes for equipment.	-				F						G	P
Temporary PA equipment Room	2 min	1	2 min	4 min.	Temporary location for installation of PA active equipment (amplifiers etc) for venue PA system.	In existing PA equipment room, if applicable. May be located under venue seating/tribunes if existing room not available.	High Security. Fully redundant power (mains & standby generator) to equipment. Good cable access to speaker location and PA/Audio Control position required. Equipment installed in racks. Each rack set is 1000H x 600W x 600 D maximum.	Number of racks will depend on size of system deployed. Generally venues with large geographic area (outdoor) require larger installation and therefore more racks of amplifier equipment.					F						P

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Timing, Scoring and Results Operations																			
Results Data Entry Position	-	-	-	-	Location(s) for event results and/or statistics data entry during competition.	As noted below.	High Security. Fully redundant power (mains & generator) with UPS to all results data entry equipment/workstations. Space & FF&E for all data entry personnel & results management staff.	Adequate weather (rain/sun) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
Shooting & Fencing Venue - FE Technical Table	4	1	4	8	Position for collation of results from pistes and data transfer to OVR.	Located with View to FE FOP, adjacent to SH Technical Table.	Cable pathway to all Pistes (8-10)& Main OVR Room.	May occur as a position on the FOP, or in a room with a view to the FOP.											
Shooting & Fencing Venue - SH Technical Table	4	1	4	8	Position collation of automated results from target range and data transfer to OVR.	Located with View to FE FOP, adjacent to FE Technical Table.	Cable pathway to all targets (10) & OVR Room	Generally occurs Back of House, in sport location.											
Timing and Scoring Position	-	-	-	-	Location(s) for event timing & scoring personnel & equipment during competition.	Sport Specific. However, all locations must have view to FOP.	High Security Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards & OVR room. Space & FF&E for operators and equipment. Adequate weather (rain/sun) protection for equipment/workstations to be provided.	-	I	I	I	F						R	IF, Swatch
Shooting & Fencing Venue - FE Pistes (8-10)	10	10	100	120	Position for judge & electronic scoring equipment.	Located at each FE Piste on FOP.	Cable access to FE Technical Table.	-											
Swimming Venue Control Room	25	1	25	32	Control location for all Swimming timing, scoring, results operations & equipment, collation of results data and transfer to OVR.	Located with View to Pool.	Cable access to pool & OVR Room.	-											
Equestrian & Running Control Room	20	1	20	25	Control location for all EQ/CC timing, scoring, results operations & equipment, collation of results data and transfer to OVR.	Located with View to EQ/CC course.	Cable access to start clock, sport specific scoreboards (finish) & OVR Room.	-											
On Venue Results (OVR)	-	-	-	-	Location is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	Usually located at Equestrian & Cross Country venue, co-located with EQ/CC Control Room.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Space & FF&E required for high density of computer workstations, racks for servers and working space for technicians, operators and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or venues where two sports occur concurrently will require more space for additional OVR equipment.	I	F								P	
OVR Provider Work Area	20	1	20	25	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO/CIS/PRD etc).	Ideally adjacent to IT provider work area.	-	-											
IT Provider Work Area	18	1	18	23	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-											
Scoreboard Control	-	-	-	-	Location of scoreboard control operations. Operations integral with those of Sport Production, data provided from OVR System. Space for both Control and Interface workstations & 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.	I	F							G	P	
Scoreboard Control - Shooting & Fencing Venue	2	1	2	4	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator & workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-											
Scoreboard Control - Swimming Venue	2	1	2	4	-	-	-	-											
Scoreboard Control - Equestrian & Running Venue	2	1	2	4	-	-	-	-											
Scoreboard Interface - Shooting & Fencing Venue	2	1	2	4	Area for interface equipment (PC workstations) linking OVR system & Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-											
Scoreboard Interface - Swimming Venue	2	1	2	4	-	-	-	-											
Scoreboard Interface - Equestrian & Running Venue	2	1	2	4	-	Adjacent/co-located with Scoreboard Control.	-	-											

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Results Printing (PRD)	60	1	60	75	Location for hard copy results production & distribution. Location of high intensity work involving many staff preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area & position for the Print Distribution Workstation (IDS interface) equipment and operator.	Near/adjacent to Press Workroom, access to Press Tribunes, Broadcast Commentary Positions, Sport Information Desk, Doping & Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specification. Space & FF&E required for equipment and operational staff as well as space for 1 x pallet of paper to support print/copy operations.	-	I	I	I	F						R	IF, Swatch
TV Graphics Interface	3	1	3	6	Location where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operators & good cable access to OVR room.	-				I			F		G	P	
Technology Storage																			
Technology General Storage	15	1	15	18	Location for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F						G	P
IT Bulk Storage	30	1	30	38	Storage area for all spare IT equipment & associated boxes/containers.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to IT provider at all times.				F						G	P
Reprographic Primary Storage Area	12	1	12	15	Primary storage/technical area in-venue for reprographic provider. Storage for spare parts, additional devices and consumables serving primarily Results Printing Operations.	In venue location adjacent to, or within Results Printing Room.	High Security - lockable. Standard office environment with standard power. Workspace & FF&E for one technician.	-		I		F						G	P
Reprographic Bulk Storage Area	15	1	15	18	Storage area for bulk paper allocated to venue (multiple pallets).	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of paper required to support venue operations.				F						G	P
Timing and Scoring Workshop	10	1	10	13	In venue storage & workshop for timing equipment, spare parts & small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.	-		I		F						G	P
Timing & Scoring Bulk Store	50	1	50	60	Storage area for large crates & containers used for scoreboards and bulk equipment. Must be accessible to OVR provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of Timing & Scoring equipment deployed to venue. May be combined with Timing & Scoring Workshop if location & size of space meet requirements for venue.		I		F						G	P
Audio Visual Bulk Store	30	1	30	38	Storage area for large crates & containers used for video boards, PA equipment & TV boxes. Must be accessible to Video/Public address provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of audio/video equipment deployed to venue.				F						G	P

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Technology General Infrastructure																			
					Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closet. CCFs are to be installed in locations that allow for easy access for service technicians and which allow for easy cable access both from TER room and to user device locations.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Work Room.	High Security - lockable and weatherproof. May require fan or dedicated A/C depending on room location and/or configuration. Fully redundant power (mains and generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.		I		F						P	
Cross Connect Frames (CCF)	1	Varies	1	-															
					Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of power from data/voice and audio-visual cabling.	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in a manner which allows for easy access and repair/replacement. Legacy installations are to be installed as permanent while temporary (overlay) should be installed using methods which are easily installed and removed minimising potential damage to existing venue.				F						P	
Cable Pathways	-	Varies	-	-															
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.	-	-	-											
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.	-	-	-											
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.	-	-	-											

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CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	-												
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	-												
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-												
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-												
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-												
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-												
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-												
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing and Scoring/OVR contractor.	I			F							P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.												
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F							P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the videoboard. Required for outdoor venues where the videoboard cannot be suspended from ceiling structure.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each videoboard.												
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Production on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F						G	P	
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to/from audio/PA amplification system and/or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend PA speakers from venue ceiling structure.	-	-	-												
Mobile Phone Infrastructure (antenna)	-	Varies	-	-	Infrastructure required to support installation of additional radio antenna & mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to/from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.	I			F						G	P	

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Ticketing																			
Ticket Box Office	30	1	30	75	An area at the venue where Olympic tickets are sold.	Adjacent to the secure perimeter; near the spectator entry point of the venue	Gross area includes internal & external queue.	Assumes container unit with disabled access to internal and external service window. Dependant upon venue layout and footprint, spectator access point locations.										P	
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	10	1	10	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s)	10	1	10	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	25	1	25	50	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.										P	
Driver Staging	55	1	55	100	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.										P	
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside venue secure perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	12	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-										P	
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from Host City, based on vehicle/bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J							P	
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J							P	
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F						P	
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.				F						G	IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.				F						G	IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.	I			F						G	IOC
Spectator and Staff Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				F						P	
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.	I			F						P	
Accessible	-	-	-	-	-	-	-	Part of Spectator total.				F						P	
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Surface areas paved or gravel.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have drop-off in close proximity to accredited entry point and then driver driver will park.			I	F						P	
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.				F						P	
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.				F						P	
Press and Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-			J	J						P	
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes vehicle circulation.				F						P	
Emergency Services	-	-	-	50 (each)	-	Generally located inside the Secure Venue Perimeter.	-	Includes vehicle circulation.				F						P	

MODERN PENTATHLON

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Venue Development																				
Site Management Compound	348	1	348	520	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Dependent upon venue footprint, extent of temporary works and number of contractors.										P		
Site Management Area	45	1	45	-	-	-	Enclosed space.	-												
Site Manager & Assistant Site Manager(s) Work Area	12	1	12	-	Work and meeting area for the Site Manager and Assistant Site Manager.	-	-	-												
Site Administration Desk & Work Area	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-	-												
Response Team & Vendor Staging	18	1	18	-	On-site permanent and temporary facilities for specialty staff and general labor crew to be on-call.	-	-	-												
Secure Storage - Site Management	9	1	9	-	Area for storage.	-	-	-												
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.	-	Enclosed space. Area for office, staging and a secure storage area.	Assumes container units or existing space. Contractor usually installs container units at their own cost.												
Sign/Look Staging, Work Space/Secure Storage	35	1	35	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	-	Assumes container unit or existing space.												
Material Warehouse/Construction Work Space	55	1	55	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	-	Enclosed space.	Assumes tent or canopy with 2 side walls. Area for carpentry, painting and general construction. Storage for non-weather proof materials.												
Vendor Secure Storage	30	1	30	-	Area for containers, usually provided by the various temporary construction sub-contractors.	-	Enclosed space.	Assumes container units or existing space.												
Materials Staging Area	30	1	30	-	Area for the off-loading and loading of bulk construction materials.	-	Area only.	-												
Exterior Storage Area	30	1	30	-	Outdoor storage of material and products.	-	Area only.	Weatherproof area for large and bulk materials.												
Vehicle Staging	60	1	60	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	-	Area only.	Service, Repair & Specialty vehicles.												
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.	I			F							P	
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.	-	I			F							P	
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.	I			F							P	
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.												
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-	-												

MODERN PENTATHLON

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Venue Management																			
Venue Operations Centre (VOC)	45	1	45	70	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Dependent upon venue capacity and venue layout.										P	
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-					F						
Assigned Desks	15	1	15	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	6	1	6	-	Shared work stations.	-	-	-											
Work Space and Storage	12	1	12	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	30	1	30	40	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.					F					P	
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	15	1	15	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	8-10 people.											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	100	1	100	120	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre.	Enclosed space.	Assumes existing space or tent. Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.					F					P	
Workforce																			
Workforce Area	120	1	120	150	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.					F					P	
Check-In Area	76	1	76	-	Area to log-in venue staff and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Area	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	175	1	175	210	The space where workforce meals are served and where workforce can break during their shift.	A location that will provide easy access to all workforce for breaks and meals; will vary according to venue layout/size.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon venue workforce numbers.					F					P	
END OF DOCUMENT																			

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation					
Accreditation																								
Venue Accreditation Office	50	1	50	125	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.											P	-				
Day Pass Issue & Problem Resolution Desk	15	1	15	-																				
Work Area	15	1	15	-																				
Manager Desk or Office & Storage	12	1	12	-																				
Waiting Area	8	1	8	-																				
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	-	Enclosed space. Required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.											P	-				
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Broadcast																								
Broadcast Compound	-	1	-	5000	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements.																
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Assumes container unit.																
Broadcast Manager Office	12	1	12	-		-	-	-	-															
Work Room, Assigned & Unassigned Desks	48	1	48	-		-	-	-	-															
Technical Operations centre	40	1	40	100	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Broadcast Catering	140	1	140	180	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	-																
Kitchen & Prep	20	1	20	-		-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.															
Buffet Line & Dining	120	1	120	-		-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.															
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements.																
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-																
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters.																
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-																
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.																
Toilets	1.5	8	12	36	-	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Secondary Broadcast Compound	-	-	-	1000	Serves as a secondary unit to the main compound to house various broadcast technical needs that are required for Broadcast to cover the full competition FOP or area.	Located at Rowing start area.	Area only. Required on venues where size of FOP or location of Primary Compound exceeds cabling capabilities.	Specific elements are venue/sport specific.																
Toilets	1.5	2	3		Toilet units designated for broadcast personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Commentator Control Room (CCR)	60	1	60	75	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in close proximity to commentator position area.	Enclosed space with incoming television cable.	Assumes existing space or container unit.																
Broadcast Information Office (BIO)	20	1	20	25	Space for broadcast management and team meetings.	Located near commentator positions and CCR	Enclosed space.	Assumes existing space or container unit.																
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-																
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J													
Mixed Zone	25	1	25	170	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Adjacent to the FOP.	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I	I	J													

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in seating areas with view to FOP and covered when possible.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Outdoor commentator positions should have the option of cover for protection from various weather conditions (e.g. sun, rain). Space for commentator positions may vary according to actual venue/permanent seating setup.			I	J						R	IOC	
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	Located at the rear of the commentator grouping so as not to disrupt the FOP view of other commentator positions.	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	A com-cam position equals 2 adjacent commentator positions.				I	J							
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions.	1 position = uses 1 seat in existing seating bowls.	-				I	J						R	IOC
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions. The primary source of camera positions are the use of boats.	FOP Camera positions are dependent upon production plans and IF approval. Space for camera positions may vary according to actual venue/permanent seating setup.	J		I	J							R	IOC
Camera Position - Other	4	35	140	315	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	Space for camera positions may vary according to actual venue/permanent seating setup.	I		I	J							R	IOC
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-							J	I			G	IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	See also Technology requirements.							J	I			G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in Back of House areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.							J	I			G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography	J			J	I		J	I			R	IOC
Catering																				
Catering Compound	565	1	565	850	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity. Gross area includes snow removal access.											P	
Work Areas - Catering Management	28	1	28	-		-	Enclosed space.	Assumes existing space or container.												
Organising Committee Catering Manager	-	-	-	-		Located in Venue Operations Centre.	See Venue Management - VOC.	-												
Catering Contractor	16	1	16	-		-	-	-												
Beverage Contractor	12	1	12	-	Operational work space(s).	-	-	-												
Dry, Cold and Ice Storage	38	6	228	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.												
Vehicle Staging	90	1	90	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-												
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-												
Kitchen and Preparation Area	80	1	80	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.												
Uncovered Storage	75	1	75	-	Outdoor storage of material and products.	-	Area only.	-												
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilets should be provided.												
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit.	-												
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container's). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity and level of catering activity.											P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.												
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.												
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	See Look for details.	-											P	

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Ceremonies																				
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-											P	
Ceremonies Staging	36	1	36	45	For the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule; to coordinate location of podium, procession, and recession route, and location of flagpoles.	Adjacent to or close to FOP.	Consists of coordinator work space with area for anthem storage, secure storage, preparation and dressing area; see below for additional details.	Assumes existing space or container.				I	F						P	
Manager Desk	6	1	6	-	Workspace for Manager.	-	-	-				I	F							
Anthem Storage	-	-	-	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.	Stored in Audio Control - see Technology Audio Control	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenters, Medal/Flower staging, Secure medal and flag storage	22	1	22	-	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format. Medals storage is not required for those venues where the medal ceremony will take place at another location.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenter Preparation and Dressing	4	2	8	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-												
Rowing Crews Waiting Area & Canoe/Kayak Post-Race Boat Weighing Tent	5 x 16	1	80	100	An area for the rowing crews waiting for their victory ceremony after the race.	-	Enclosed space. See Sport Operations - tent used for Canoe/Kayak weighing of boats after racing.	Assumes tent.	I			J						J	R	IF
Ceremonies Pontoon and Stage	230	1	230	350	-	In front of main grandstand.	The stage could be on land or floating adjacent to the victory ceremony pontoon. Pontoons:victory ceremony - 3m x 54m and the victory ceremony stage - 3m x 20m.	-												
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	Close to FOP.	Limited use, may be shared with other space. See Sport Production.	-			I	F							P	
Awards Podium Storage	12	1	12	15	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	Adjacent to FOP.			I	F							P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.	I		J	J					J	G	R	IOC
Cleaning and Waste																				
Cleaning & Waste Compound	252	1	252	350	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependant upon venue capacity.					F						P	
Vehicle Staging	72	1	72	-	Parking area for collection vehicles which generally remain inside the venue.	-	Area only.	-												
Sorting Area	72	1	72	-	Area for sorting waste.	-	Area only.	-												
Waste & Recycle Containers	15	4	60	-	-	-	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).												
Compactor Unit	25	Varies	Varies	-	Area in front of waste and recycle bins where material is separated for containment.	-	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.												
Equipment Supply & Storage	15	2	30	-	Space for cleaning equipment and paper product.	-	Enclosed space.	Assumes container unit.												
Contractor Office	18	1	18	-	Space for management and workforce staging.	-	Enclosed space.	-												
Doping Control																				
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	-	J		J	J							R	IOC
Waiting Area/Reception	26	1	26	30	Area where athletes check-in and wait prior to testing.	-	-	-												
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Blood Processing Room(s)	15	Varies	Varies	20 (each)	Area where athlete blood samples are provided and sealed	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												

ROWING / CANOE KAYAK FLATWATER

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer. Wash basin for hand sanitisation.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).											
Office / Storage	12	1	12	15	Work and storage space for Doping Manager.	-	Enclosed space. Secure storage.												
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-	I	J	J							R	IOC

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.				F						P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of workforce pre-shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large group.	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.				F						P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.				F						P	
Information Desk	-	-	-	-	-	-	-	-											
Lost and Found	-	-	-	-	A holding area for items found in the venue.	-	-	-											
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spectators.	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	-	-	Will depend on level of service at venue.				F						P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes; located between screening/search area and spectator plaza.	Total number generally 50% of security screening positions.				F						P	
Stroller Storage	Varies	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	In close proximity to seating area.	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.				F						P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.				F						P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators				F						P	
Spectator Shade and Shelter	Varies	Varies	Varies	72 (each)	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and spectator service amenities.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.				F						P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-				F						P	
Spectator Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators.	Located in FOH, close proximity to seating and spectator amenities.	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.				F						P	
Hand Wash Stations	1	Varies	Varies	6 (per 20 toilets)	A chemical unit used in the absence of potable water.	Located in FOH, close proximity to seating and spectator amenities.	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.				F						P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Finance																			
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I		F						P	
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Generally located inside venue perimeter and outside venue perimeter.	Area only.	Quantity dependent upon venue capacity.											
Language Services																			
Work Area / Desk	20	1	20	25	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre.	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-		J	J		I					G	IOC
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference needs.	-		J	J		I					G	IOC
Logistics																			
Logistics Compound	-	1	Varies	650	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access. Secondary Compound Area - an additional compound area may be necessary for staging or storage of equipment that is in close proximity to FOP and/or the finish area.				F						P	
Logistics Centre	60	1	60	-	-	-	Enclosed space.	Assumes container units or tent.											
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-											
Team Staging/Work Area	33	1	33	-	Space for staging and a work area.	-	-	-											
Secure Storage & Equipment Sign-out	15	1	15	-	Area for storage.	-	Storage for tools.	-											
Warehouse Storage	90	1	90	-	Storage area for furniture, fixtures, and equipment (FF&E).	-	Enclosed space.	Assumes tent											
Storage Yard	75	1	75	-	Outside storage area within compound.	-	Area only.	-											
Vehicle Staging	100	1	100	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-											
Fuel Tank(s)	9	Varies	Varies	25 (each)	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.											
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.											
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.											
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.											
Material Transfer Area (MTA)	-	1	-	575	Generally for deliveries to the venue that may take place after hours or not within the logistics delivery window period.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.				F						P	
X-Ray Area	36	1	36	72	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.											

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R- Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Look of the Games																				
Work Area and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.											P	
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J							R	IOC	
National Olympic Committee (NOC) Flags	Varies	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition sch	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.			J	J					J	R	IOC	
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and back of locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J					J	G	R,P	IOC, IF
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals.	-												
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH).	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.		I	J	J					J	G	R	IOC, L
Backdrop - Press Conference Room	2.2 x 6	-	-	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F		I	I					
Medical Services																				
Athlete Medical	75	1	75	110	An area where Medical provides services to athletes competing at the venue.	Located within the accredited Athlete Area.	Enclosed air-conditioned space.	Assumes container or existing space.	J	J	J						J	R	IF	
Reception & Waiting	12	1	12	-	Area where athletes check-in and wait prior to examination.	-	-	-												
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-												
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-												
Physiotherapy Area(s)	8	2	16	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-												
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
FISA Doctor Examination Area	10	1	10	-	-	-	-	-												
Athlete Massage Area	100	1	100	150	Area for athlete massages.	Located in the Athlete Area. Adjacent to athlete medical area.	Separate rooms for women and men. Men 60m2 Women 40 m2.	7 massage beds for men, 5 massage beds for women	J		J						J	R	IF	
Finish Area Medical	-	-	-	25	Area where medical personnel can rapidly response to athletes crossing the finish line area.	Located 70-80m beyond finish line.	Enclosed area.	Temporary tent or use of an ambulance vehicle that is able to park in close proximity to the water's edge.	J		J						J	R	IF	
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.												
Spectator Medical	50	1	50	100	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed air-conditioned space. 1 per 20,000 spectators.	Assumes container unit or existing space.			I	F		I	I			P		
Reception & Waiting	12	1	12	-	Area where spectators check-in and wait prior to examination.	-	-	-												
Medical Work Space & Secure Storage	12	1	12	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-												
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-												
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Triage Station	36	1	38	72	Additional space to treat minor medical needs of spectators.	Located in the Front of House.	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.			I	F		I	I			P		
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.				F		I	I			P		
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Paved, graveled or grass area with fence, barricade or rope enclosure.	-				F		I	I			P		

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Merchandise																					
Office, Cash Room & Work Area	12	1	12	15	An area to manage the retailing of all Olympic merchandise inside the venue.	-	Enclosed space with secure entry.	Assumes container unit or existing space.											P		
Storage	15	2	30	35		-	-	Assumes storage containers or existing space.												P	
Program Sales Stands/Booths	1	1	1	2		-	Area only.	Units provided by vendor. Quantity and location decided by vendor and OCOG.												P	
Merchandise Points of Sale (POS)	6	Varies	Varies	18 (each)		Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.	Gross area is per each P.O.S. and includes service area and queue.		I		F							P	
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-		I	J	J							G	R	IOC
Olympic Family Services																					
Olympic Family Lounge	240	1	240	500	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes tent.	I		I	F						I	G	G	IOC
Welcome Desk and Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-	-													
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.	-													
Staff/Volunteer Room and Storage	12	1	12	-	On-call waiting area for Protocol staff and equipment storage.	-	-	-													
Dining and Lounge	140	1	140	-	Area for dining and lounge.	-	-	-													
Preparation/Buffer set-up/Beverage Area	70	1	70	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Staff/Volunteer, Athlete, Media)	-													
Toilets	30	1	30	60	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	4 female, 4 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided												P	
Protocol flags	-	-	-	-	-	-	See Look of the Games.	-			J	J							J	R	IOC
Press Operations																					
Venue Media Centre (VMC)	425	1	425	600	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Confer	Close proximity to Press Tribune, Press Conference room, and Mixed Zone area.	This space is calculated on the higher demand for Rowing which shares the venue with Canoe/Kayak. Venue press facilities remain the same for both sports. Enclosed space for 110 press and 25 photographers.	Assumes tent.												R	IOC
Reception & Information Desk	18	1	18	-	Welcome desk at the entrance, for information distribution.	-	-	-													
Storage	4	1	4	-	Equipment storage.	-	-	-													
Press Manager Office	12	1	12	-	Operational work space.	-	-	-													
Photo Manager Office	12	1	12	-	Operational work space.	-	-	-													
Olympic News Service (ONS) Work Room or Area	25	1	25	-	Operational work space.	-	Enclosed space.	-													
Info Stations	20	1	20	-	Computer stations and printers.	-	-	-													
Press Work Room or Area	180	1	180	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.													
Photo Work Room or Area	35	1	35	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.	-													
Photographers Check-in & Photo Bib Distribution	9	1	9	-	Area where photographers register and receive/return photo bibs.	-	-	-													
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.													
Lounge/Catering Prep	80	1	80	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-	-													
Toilets	1.5	6	9	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided													

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation		
Press Conference Room	100	1	100	210	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I			F						R	IOC		
Seating Area	60	1	60	-	An area for accredited press.	-	Seats and standing room.	-													
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3.6 m table, 8 chairs & step and repeat backdrop.	-													
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-													
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-													
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-				F				I	I				
Mixed Zone	25	2	50	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I		I	F						R	IOC,IF		
Press Tribune	-	-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	-	Tabled seating is fitted out with telephones, television monitors, power and other press facilities (indoor venues). For outdoor venues, these services will exist in VMC.	-													
Press Tabletop Seating	Varies	Varies	Varies	-	-	Easy access from Venue Media Centre and direct access if possible to Mixed Zone.	<u>In an existing stadium or seating area:</u> 1 seat wide (folding chairs at 60 cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50 cm deep tabletop per position, each position = 2 stadium seats. <u>Temporary Stands:</u> 1 seat (folding chairs at 60 cm spacing) x 2 rows deep of proposed seating system (normally 150 cm-170 cm deep).	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.				I	F				I	I	R	IOC,IF	
Press Seating (non-tabled)	Varies	Varies	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.				I	F					I	R	IOC,IF	
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided													
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-													
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	Located on pontoons on the FOP and at the start position. Number vary Pool positions plus others	Total peak number of Photographers: 50. 60cm wide x 90cm deep per position, multi-row areas require 60cm riser per row. See Venue Seating for quantities by sport.	Power, Wireless and data cabling needed to photo positions on FOP.	J		I	J						I	J	R	IOC, IF
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Located along course including finish line. Number vary	See Venue Seating for quantities by sport.	Seating areas are generally not applicable for outdoor venues.	I		I	F						I	I	G	IOC
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-													

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Security																				
Security Command Centre	120	1	120	145	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.												
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-												
Security Work Area	15	1	15	-	An area for additional security agencies.	-	-	-												
CCTV Surveillance & Video Desk	15	1	15	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-												
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.												
Radio Dispatch & Monitoring	15	1	15	-	An area for the monitoring and control of security communication and the distribution/return of radios.	-	-	-												
Work Room	50	1	50	-	Open plan of work stations designated for security personnel.	-	-	-												
Secure Storage	10	1	10	-	An area for Security equipment storage.	-	Enclosed, secure space.	-												
Dog Cage(s)	4	Varies	Varies	8 (each)	Holding area for security dogs.	-	Area only for enclosed portable units (e.g. cages).	Dependent upon Host City/Country / Risk Assessment.												
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-												
Briefing and Break Area / Staging Area	140	1	140	170	Area for briefing staff before and after shifts.	-	Enclosed space.	Assumes tent.												
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.												
Vehicle Screening & Sanitisation Area	569	1	569	800	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.												
Vehicle Queue	175	1	175	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-												
Oversized Vehicle Queue	140		140	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-												
Vehicle Sanitisation & Wanding Areas	150		75	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.												
Oversized Vehicle (Truck & Bus) Sanitisation	70		70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-												
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.												
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Enclosed space for staging and break.	-												
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the venue secure perimeter and/or venue screening area for constituents.	-	Dependent upon spectator capacity and venue design.												
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-												
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-												
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-												
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.												

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the venue secure perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.				F			I			R	IOC
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the venue secure perimeter.	Enclosed space for screening/search area positions.. Net area for each screening position will accommodate the following: 4 Wanding Stations, OR 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue. Dependent upon spectator capacity and venue design.											
Athlete / Team	18	1-2	18-36	36-72	-	BOH.	-	-				F						R	IOC
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with Athlete and/or Olympic Family.				F						G	IOC
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with TO, ENG and/or Press.				F						P	
Broadcast	18	1-2	18-36	45-90	-	BOH.	-	If possible, direct access from outside venue perimeter into Broadcast Compound.											
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	BOH; located in close proximity to Venue Broadcast Compound.	-	-											
Press and Photographer	18	1-2	18-36	36-72	-	BOH; located in close proximity to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast).	If possible, direct access from outside venue perimeter into Venue Media Centre.				F	I						
Workforce (Staff/Volunteer/Contractor/Vendor)	18	2-3	36-54	90-135	-	BOH or possibly FOH.	-	-				J	J					P	
Spectator / Sponsors	18	Varies	Varies	54	-	FOH.	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wandung station).	-				I	F					P	
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.				F			I			P	
Exception Gate	Varies	Varies	Varies	-	Access gate for designated accredited personnel.	FOH; located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.				F						P	
X-ray of bags	36	Varies	Varies	72 (each)	Device for screening bags/equipment coming into the venue.	FOH and BOH.	Covered.	-				F	I					P	
Venue Perimeter Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	Dependent upon spectator capacity and venue design.											
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	1m to 3m width, sometimes used as a secondary service vehicle exit point.	-											
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m each, number varies per concourse design.	-											
Workforce (Staff/Volunteer/Contractor/Vendor)	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	Size dependant upon total workforce numbers.				I	F				G	P	
Sponsor Services																			
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.				I	F					P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Sport Operations																				
Competition Management	87	1	87	110	A work area for Sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located close to Athlete Area and FOP; may be co-located within the Venue Operations Centre & Security Command Centre.	Enclosed space.	Assumes tent. Services both sports: Rowing and Canoeing/Kayak.	I			F						P		
Competition Manager & Asst. Manager Desks	12	2	24	-	An area for the Manager and Assistant(s) Manager.	-	-	-												
Assigned Work Area	24	1	24	-	Open plan of work stations designated for Sport personnel.	-	-	-												
Hot Desks	15	1	15	-	Shared work stations.	-	-	-												
Work Area	24	1	24	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-												
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-												
Sport Information	60	1	60	70	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located adjacent to Athlete Area.	Enclosed space with waiting area and seating.	Services both sports: Rowing and Canoeing/Kayak. Includes: information boards, pigeon holes, Info & Help Desk, work area, info terminal stations & storage.	J		J							R	IF	
Athlete Lounge	200	1	200	250	An area where athletes can relax at the venue while not training or competing.	Located in Athlete Area.	Enclosed space.	Services both sports: Rowing and Canoeing/Kayak. Includes: seating area, lounge, Info & Help Desk, info terminal stations. Team Dining Area - this space/area requirement will be decided on a case by case basis after consultation between the FISA, IOC, and OCOG.	J		J							R	IF	
Athlete Dressing, Locker, Shower, Toilet	250	2	500	600	Change-room facilities to accommodate athletes at the venue during competition and training.	Located in Athlete Area.	Enclosed space. Separate male and female facilities.	Assumes container units or existing space. Men-20 toilets, 15 urinals, 15 washing basins, 150 showers. Women-20 toilets, 20 wash basins, 10 showers.	J		J							R	IF	
IF & Sport Meeting Room (Team Leaders Meeting Room)	30	1	30	45	Meeting facility at the venue for the team leaders, International Federation and Competition Management.	Located in close proximity to the IF Area and Competition Management area.	Enclosed space.	Services both Rowing and Canoe/Kayak. Shared meeting room area between IF & Sport to serve various meeting needs.	J		J							G	IF	
Sport Equipment Storage (Rowing & Canoeing)	60	1	60	70	Storage for athlete/team sport equipment.	Located in close proximity to boat storage area and team equipment.	Enclosed space.	Assumes temporary container units or existing space. Services both sports: Rowing & Canoeing/Kayak.	J		J	I						R	IF	
Boat Trailers & Container Storage Area	4000	1	4000	4000	Area for team boat trailers and freight containers to be stored during the Games period.	Located in close proximity within or to venue. Easy access for NOC/Team staff.	Area only. Secured area for unloading and loading of boats and equipment; turnaround areas for vehicle with trailers, stable surface for vehicle access, unloading/loading of boats & equipment.	Team containers generally measure 20-40 foot containers. Boat trailers generally measure 18m x 2.5m. Location may vary depending on layout and landscape of venue; may be located in remote but secure location. Quantity varies according to final team numbers.	J		J							R	IF	
Boat Storage	-	-	-	-	Storage of team boats.	Located near warm-up lake, athlete areas and boathouse.	Open area for boat racks and oar racks.	Normally, areas for Rowing and C/K flatwater are separated.	J		J								R	IF
Rowing - Indoor, in permanent Boathouses	130	8	1250	1500	Permanent building for storage of boats and oars, for boats' and athletes' weighing, ect.	Located minimum 50m from the water edge.	For storage of boats and oars, for boats and athletes weighing, ect.	Services Rowing only.	J	J	J								R	IF
Rowing - Outdoor on Boat Racks	200	30	6000	6500	Generally, 25 -30 boat racks, placed next to the permanent boathouses.	Located minimum 30m from the water edge.	For storage of boats and oars.	Services Rowing only.	J	J	J								R	IF
Canoe / Kayak - In permanent Boathouses	130	4	520	800	Permanent building for storage of boats and paddles.	Located minimum 30m from the water edge.	For storage of boats and oars.	Services Canoeing/Kayak only.	J	J	J								R	IF
Canoe / Kayak - Outdoor, on Boat Racks	900	1	900	4500	Boat racks, placed under cover (tent).	Located minimum 30m from the water edge.	For storage of boats and oars.	Services Canoeing/Kayak only	J	J	J								R	IF
Bicycle Rental Area	-	1	-	100	Bicycles used by team coaches to pursue training and races along the course.	Adjacent to Athlete Areas.	Covered area only for bicycles.	Services both sports: Rowing and Canoeing/Kayak.	I	I	F								R	IF
Boat Numbers Distribution (Rowing)	12	1	12	15	For distribution and collection of the boat numbers during the racing sessions.	Located between the Rowing In/Out pontoons next to the waters edge (Athlete area).	Covered area.	Services Rowing only.	I	I	F								R	IF
Control Commission (Rowing)	12	1	12	15	A space for the Control Commission Officials carrying out their duties during training and racing times.	Located between the Rowing IN/OUT pontoons adjacent to the Boat numbers distribution.	Enclosed space.	Assumes temporary container unit or tent. Services Rowing only												
Athlete Weigh-in (Rowing)	50	1	50	60	An area for weighing of Lightweight rowers and coxswains.	Located in the Rowing Athlete Area.	Enclosed space.	Services Rowing only.	I	I	F								R	IF
Boat Weighing (Rowing)	75	1	75	80	An area for weighing of the rowing boats.	Located adjacent to the rowing boat storage area	Enclosed space.	Recommend existing structure. Services Rowing only.	I	I	F								R	IF
Boat Weighing (C/K Flatwater)	80	1	80	100	An area for weighing of the canoe and kayak boats.	Located in the Canoeing Boat storage area.	Enclosed space.	Services Canoeing/Kayak only.	I	I	F								R	IF
Rowing Crews Waiting Area & Canoe/Kayak Post-Race Boat Boat Weighing	-	-	-	-	-	Located beyond finish line.	See Ceremonies for details.	Services both sports: Rowing and Canoe/Kayak.												

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Rowing Crews Waiting Area & Canoe/Kayak Post-Race Boat Weighing	5 x 16	1	80	100	An area for the rowing crews waiting for their victory ceremony after the race.	-	Enclosed space.	Assumes tent. Tent used for Canoe/Kayak weighing of boats after racing.	I			J				J		R	IF	
Control Commission (Canoe/Kayak)	32	1	32	40	For the Control Commission Officials carrying out their duties during training and racing times and for the Boat numbers distribution..	Located in the Canoeing Boat storage area.	Enclosed space	Services Canoeing/Kayak only.	J			J					J		R	IF
Video Review	100	1	100	110	-	Located in Athlete Area.	Enclosed space.	Recommend existing structure. Services both sports: Rowing and Canoeing/Kayak.	I		I	F							R	IF
Athlete Rest Areas (Rowing & C/K Flatwater)	100	18	1800	2500	An area where athletes can recover, meet and rest at the venue while not training or competing.	Located in Athlete Area.	Enclosed space.	Assumes tent with covered floor space. Services both Rowing and Canoe/Kayak.	I		I	F							R	IF
Gymnasium	200	1	200	250	Area for Athletes to train with ergometers throughout the training and competition period.	Located in Athlete Area.	Enclosed space.	Assumes enclosed tent.	I		I	F							R	IF
Boat Repair	-	-	-	-	-	-	-	Separate facilities for both sports: Rowing and Canoeing/Kayak.												
Rowing	130	1	130	140	Area where the OCOG provide services for major repairs.	Usually located in one of the permanent boathouses. Adjacent to Athlete Areas.	Enclosed space. Usually in one of the permanent boat houses.	Services Rowing only.	I		I	F							R	IF
Canoe / Kayak	2 x 16m ² + 1 x 30m ²	3	62	300	Area where the Boat builders provide repair services to the teams.	Adjacent to the Canoeing Boat storage Athlete Area.	Tents: 2 tents 4m x 4m and 1 tent approx. 5m x 6m.	Services Canoeing only.	I		I	F							R	IF
Boat Builder (Rowing)	18	7	126	1600	Area where the Boat builders provide repair services to the teams.	Adjacent to the Rowing Boat storage Athlete Areas.	Tents, minimum 4m x 4m.	Services Rowing only. Quantity varies according to final team numbers.	I		I	F							R	IF
Aligner's Hut (Rowing)	9	1	9	20	For the operation of the Rowing Judge at the Start and the Aligner.	Located on the start line.	Permanent air-conditioned facility. See Technology - Timing, Scoring, Results.	Assumes existing structure. Services Rowing only. Parking area for internal working vehicles may be necessary in close proximity to the Aligner's Hut / Start Area.	F		I	I			I				R	IF
Timing Hut(s)	-	-	-	-	-	-	See Technology - Timing, Scoring, Results.	-												
Rowing	9	1	9	20	For the operation of the Rowing Timing officials.	Located exactly on the Rowing 500m intermediate line.	See Technology - Timing, Scoring, Results.	Assumes existing structure. Services Rowing only.	F		I	I			I				R	IF
Rowing 1000m & Canoeing/Kayak Start Tower-1000m	9	1	9	20	For the operation of the Rowing Timing officials and the Canoeing Starter.	Located on the Rowing 1000m intermediate line and Canoeing 1000m start line.	See Technology - Timing, Scoring, Results.	Assumes existing structure. Services Rowing and Canoeing.	F		I	I			I				R	IF
Rowing 1500m & Canoeing/Kayak Start Tower/Timing Hut-500m	9	1	9	20	For the operation of the Rowing Timing officials and the Canoeing Starter.	Located on the Rowing 1500m intermediate line and Canoeing 500m start line.	See Technology - Timing, Scoring, Results.	Assumes existing structure. Services Rowing and Canoeing.	F		I	I			I				R	IF
Canoeing/Kayak-250m and 750m	9	1	9	20	For the operation of the Canoeing Timing officials.	Located on the Canoeing 250m and 750 intermediate lines.	See Technology - Timing, Scoring, Results.	Assumes temporary unit. Services Canoeing only.	F		I	I			I				R	IF
Start Tower (Rowing)	9	1	9	-	For the operation of the Rowing Starter	Located approx. in the middle of the course, 40 - 50m beyond the start line	See Technology - Timing, Scoring, Results.	Services Rowing only. Assumes existing structure.	F		I	I			I				R	IF
Start Area (Rowing)									J		J				J				R	IF
Start Fingers	16 x 1	8				Located at the rowing start area.														
Repair Pontoon	3 x 6	1				Located at the rowing start area.														
Rest Area	16	1			Area for sport staff to rest between races.	Located at the rowing start area.														
100m Time Trial (Rowing)	3 x 3	1	9	15	For time trials starting equipment and officials.	Located at the Rowing 100m line.	See Technology - Timing, Scoring, Results.	Assumes temporary unit. Services Rowing only.	F		I	I			I				R	IF

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Finish Tower (Rowing & Canoeing)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1st Level	60	1	60	100		Located at finish line.	See Technology-Timing, Scoring and Results.	Services both Rowing and Canoeing.	F	I	I							R	IF
2nd level	60	1	60	100			See Technology-Timing, Scoring and Results.	Services both Rowing and Canoeing. Canoe/Kayak: announcer; enough space for 10-12 persons.											
3rd level	60	1	60	100	Commentary area & ICF Officials.		Commentary room requires soundproofing with direct view to FOP.	Canoe/Kayak: Jury / Regatta Secretary; room for 10 persons & commentary room for 5 persons. Scoreboard operation room.											
4th level (Terrace)	60	1	60	100	Photo finish equipment and Camera positions.		Covered area and walls for protection against wind and sun.	Canoe/Kayak: computer and scoreboard operation; enough space for 6-7 persons.											
Roof	60	1	60	100				Canoe/Kayak: Camera positions; enough space for 3 persons.											
Finish Area Medical	-	-	-	-	-	-	See Medical for details.	-	J		J							R	IF
Support Pontoons-Canoe/Kayak	3 x 6	2	36	45	Support structures along course/field of play for CK Flatwater.	Located 50m before the 500m and 1000m start lines.	Pontoon construction.	Services Canoeing only.	J		J							R	IF
Launch Pontoons	-	-	-	-	-	-	-	-	J		J							R	IF
Rowing	6 x 20	4	480	600	-	Located in front of Rowing boat storage area.	-	-											
Canoeing/Kayak-250m and 750m	4 x 20	4	320	440	-	Located in front of Canoeing boat storage area.	-	-											
Other Pontoons	-	-	-	-	-	-	-	-	J		J							R	IF
Umpire Catamarans	-	-	-	-	Area for officials boats to dock.	Located near boat storage area.	-	-											
Broadcast Catamarans	-	-	-	-	Area for broadcast boats to dock.	Located near broadcast compound area.	-	-											
Service Boats	-	-	-	-	Area for service boats to dock.	Located near boat storage area.	-	-											
Ramp for Rescue Boats	6 x 18	1	108	175	Area for rescue boats to access the FOP finish area.	Located beyond finish line, near athlete first aid/medical tent.	-	-											
Motor Boat Drivers Tent	40	1	40	60	Area for Rowing and Canoeing boat drivers to retain cover and rest.	Located in close proximity to pontoon areas.	-	Services both Rowing and Canoeing.	J		J							R	IF
Team Bag Storage (Rowing)	60	1	60	80	Area for storage of team bags.	Located close proximity to the team boat storage area to store team bags.	Direct access to the Boat storage area.	Services Rowing only.	J		J							R	IF
Athlete Storage (C/K Flatwater)	90	1	90	140	-	Located in Athlete Area.	Direct access to the Boat storage area.	-											
FOP Equipment Storage	-	-	-	-	Storage of equipment required for competition.	Located adjacent to Field of Play or within close proximity.	-	-	I		F	I						R	IF
FOP Maintenance and Equipment Storage	90	1	90	140	Storage of equipment required for competition.	Located adjacent to Field of Play or within close proximity.	-	Services both Rowing and Canoeing.	I		F	I						R	IF
Field of Play (FOP)	-	-	-	-	Area where competition is conducted for both Rowing and Canoe/Kayak Flatwater.	-	Reference should be made to FISA and ICF guidelines for all FOP technical requirements.	-											
Dimensions of Competition Area	-	-	-	-	-	-	-	Roads around course: 4m wide, turning points at the start, 500m, before/after bridges, before permanent seating area and beyond finish line. Note: a broadcast road (6.5m wide) may be necessary on the TV coverage side of the course.											
Rowing	2220 x 162	1	359 640	-	Area where competition is conducted for Rowing	-	Racing course distance/area: length = 2000m and width = 108m (minimum requirement).	Length up to 2270m varies depending on the available terrain and design concept. The level of the surrounding bank must be a maximum minimum of 1m above water level.	F		I							R	IF
Canoe/Kayak Flatwater	1500 x 120	1	180 000	-	Area where competition is conducted or Canoe/Kayak Flatwater	-	The minimum dimensions of an Olympic competition course are 1000m in length, 81m in width and 3m in depth along the entire course.	Total area required may be greater than playing surface dimension.	F		I							R	IF
Surface	-	-	-	-	Water	-	Racing course - water with a recommended depth of 3.5m (min. is 3m).	-	J		J	I						R	IF
Orientation	-	-	-	-	-	The longitudinal axes as close as possible to the direction of the prevailing winds.	Parallel to the direction of the prevailing wind.	-	J		J	I						R	IF
Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	-	-	-											
Rowing	1000 x 54	1	54 000	80 000	-	Must be adjacent to the FOP with direct access through 3 channels: beyond the finish line, at the middle of the course and at the start.	Minimum 1200m Length; 150m Width; area for athletes to warm-up, cooling down and canoe training course.	Services both sports: Rowing and Canoeing/Kayak but separate warm-up courses set-ups.	J		J							R	IF
Canoe and Kayak	1000 x 36	1	36 000	60 000	-	Must be adjacent to the FOP with direct access through 2 channels: beyond the finish line and at the middle of the course.	Minimum 1100m long and 46m wide area for athletes to warm-up and for canoe training during rowing competition.	Services Canoeing only.											
Surface	-	-	-	-	Water	-	Water with a 2m depth minimum.	-	J		J	I						R	IF
Orientation	-	-	-	-	-	-	Orientation of warm-up area should be, if applicable, such as north-south axis, parallel to the direction of the prevailing wind.	Must be close to parallel or parallel to the axes of the main course (FOP).	I		F	I						R	IF

ROWING / CANOE KAYAK FLATWATER

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Cooling Down Area	500 x 30	1	15 000	30000		Located with direct access from finish area.	Minimum 600m long and 40m wide area for athletes to cool down after finishing racing.	Services both sports: Rowing and Canoeing/Kayak.											

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Sports Lighting - Technical	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											
Athlete / Team Seating	-	-	-	-	A designated seating area for athletes.	-	-	-	J	I	J					J			
Athlete Open Air Viewing Location	200	1	200	250	Simple seating area for teams to use before or after racing.	-	Tables, chairs, umbrellas or a simple cover.	Services both sports: Rowing and Canoeing/Kayak.											
Same Sport	-	Varies	-	-	-	-	-	-	J	I	J					I		R	IOC,IF
Different Sport	-	Varies	-	-	-	-	-	-	I	I	F					I		R	IOC
Kiss and Cry Zone	-	1	-	-	Area for athletes to access family and friends.	Located close to FISA / ICF family stand.	-	-	I	I	F					I		P	IF
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	May be required for Sport Staff use. Quantity varies according to athlete numbers.				F						P	
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	Required if FOP is not located near Athlete Area.	Assumes temporary units. Quantity varies according to athlete numbers.				F						P	
International Federation																			
IF Area (Rowing & Canoeing)	190	1	190	250	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located in close proximity to boathouse and finish area.	Enclosed space.	Assumes container units or existing space. Shared facility between Rowing and Canoeing. Preferable in a permanent facility.	I	I	F							R	IF
IF President's Office	15	2	30	-	-	Located in close proximity to finish area with view to FOP.	If finish area is in close proximity to boathouse (max 300m); offices should be located in finish area. If finish area is located far from boathouse, offices should be available at both locations.	Recommend to use an existing space (permanent facility) if possible.	I	I	F							R	IF
IF Secretary-General/Executive Director's Office	15	2	30	-	-	Located in close proximity to finish area with view to FOP.	-	Recommend to use an existing space if possible.	I		F							G	IF
Reception, Secretariat, Waiting & Work Area	80	1	80	-	-	-	-	-	I		F							G	IF
IF Meeting Room	-	-	-	-	-	-	See IF & Sport Meeting room.	-											
Jury & Appeals Area - Finish Tower	-	-	-	-	This space is utilised for the resolution of protests and appeals after competition.	-	See Finish Tower.	-	I		F							R	IF
Lounge - International Technical Officials	120	1	120	240	A rest area for officials.	Located adjacent to IF office area.	-	Recommend to use an existing space if possible. Services both sports: Rowing and Canoeing/Kayak. Assumes container units or existing space.	J		J							G	IF
Officials Locker Room, Shower, Toilet	80	1	80	100	A change area for officials.	-	-	Assumes container units or existing space. Separate men and women lockers may be necessary.	I		F							R	IF
Technical Delegates Office & Work Area	15	2	30	35	Office area for Technical Delegates.	In close proximity to IF office and finish area.	Enclosed space. 4 Technical Delegates. Space for FISA TDs (2) and ICF TDs (2).	Recommend to use an existing space if possible.	I	I	F					I		R	IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I	J	J					J		R	IOC,IF
Sport Presentation																			
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.											
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-			F							P	
Announcer Position	3	1	3	-	-	-	-	-			F							P	
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space, consisting of work area, green room, entertainer staging and dressing and prop storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.				F						P	

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Technology Operations																			
Technology Help Desk	16	1	16	20	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support staff & manager.	-				F						P	
Venue Technology Operations (VTO)	25	1	25	32	OCOG Technology Operations area. Operational work space for entire Venue Technology team, including Partners & contractors.	Adjacent to or within Venue Operations Centre (VOC).	Medium security - lockable room. Air-conditioned as office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	-				F					G	P	
OCOG Venue Technology Work Area	-	1	-	-	Work space for Venue Technology Manager, Assistant Venue Technology Manager, Technology Workforce Manager and associated volunteer(s).	-	-	Work space size may be dependent upon workforce per shift.											
AV Contractor Work Area	-	1	-	-	Work space for AV contractors/Technicians.	-	-	Work space size may be dependent upon workforce per shift.											
IT Provider Work Area	-	1	-	-	Work space for IT workforce and "home base" for IT volunteers.	-	-	Work space size may be dependent upon workforce per shift.											
Reprographic Provider Work Area	-	1	-	-	Work space for reprographic contractors/technicians	-	-	Work space size may be dependent upon workforce per shift.											
Mobile Phone Provider Work Area	-	1	-	-	Workspace for mobile phone provider.	-	-	Work space size may be dependent upon workforce per shift. Charging area for Venue Operations workforce phones may be required.											
Wired Communications Provider Work Area	-	1	-	-	Work space for Wired Communications contractors/technicians.	-	-	Work space size may be dependent upon workforce per shift.											
Timing & Scoring/OVR Provider Work Area	-	1	-	-	Work space for OVR/Timing & Scoring contractors/technicians.	-	-	May not be required if adequate working space is allocated in OVR room.											
Radio Distribution Room (RDR)	15	1	15	18	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E and workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).	I			F						P	
Information Technology																			
Computer Equipment Room (CER)	20	1	20	25	Location for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.	I			F					G	P	
Data Local Area Network (LAN) Management Room & Store	25	1	25	32	LAN monitoring room & associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational staff & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces.				F					G	P	

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Telecommunication & Audio Visual																			
Telecomm. Equipment Room (TER) Primary	36	1	36	45	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	Raised flooring is preferable for cabling distribution, but not essential.		I		F							P
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER.	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.		I		F							P
Telecomm. Operations & Store	25	1	25	32	Operational space for Telecommunications technical staff and associated storage for spare parts.	Adjacent to TER.	As TER with adequate FF&E to support operational staff & storage.	If located adjacent to TER, power supply boards, UPS units & A/C services can be common for both spaces.		I		F							P
Audio Control Positions	-	-	-	-	-	-	-	-				F						G	P
Venue	4	1	4	8	Area within Sport Production, location for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Production. Can be on FOP, in stands or in a booth with view to FOP.	High Security. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	Storage for country anthems.											
Press Conference	4	1	4	8	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), air-conditioned, waterproof. Work space & FF&E for operator.	PA system may also be used for Competition Draw if draw is held in Press Conference room.											
Athletes Briefing	2	1	2	4	PA systems required for to facilitate announcements to athletes. Space required for amplifier/microphone.	Within briefing room/area for Athletes.	Standard/mains power & FF&E.	-											
Federation Area	2	1	2	4	PA systems required for Federation Area . Space required for amplifier/microphone.	Location as required by SPT/Federation.	Standard/mains power & FF&E.	-											
Warm-Up Area	2	0	2	4	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Within Warm-up area for Athletes.	Standard/mains power & FF&E.	-											
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-											
Workforce Break/Dining	2	Varies	Varies	-	Area within Staff Break/Training room where audio control equipment is installed to facilitate meetings/training of large numbers of staff.	Workforce break/dining areas.	Standard/mains power & FF&E.	-											
Video Board Control	4	1	4	8	Location of video control for video board or video projection system. Operations integral with those of Sport Production.	Ideally with Sport Production. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	-				F						G	P
Wired Communications Control	2	1	2	4	Location of wired communications master control station and support technician. System essential to operations of both Sport Production and Results/FOP management.	Near to or within Sport Production is preferable. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location is located outdoors. Good cable access to FOP, OVR Room, Sport Production, Broadcast Graphics Room & Results Printing required. Workspace & FF&E for one technician, control equipment, spare parts and containers/boxes for equipment.	-				F						G	P
Temporary PA equipment Room	2 min	1	2 min	4 min.	Temporary location for installation of PA active equipment (amplifiers etc) for venue PA system.	In existing PA equipment room, if applicable. May be located under venue seating/tribunes if existing room not available.	High Security. Fully redundant power (mains & standby generator) to equipment. Good cable access to speaker location and PA/Audio Control position required. Equipment installed in racks. Each rack set is 1000H x 600W x 600 D maximum.	Number of racks will depend on size of system deployed. Generally venues with large geographic area (outdoor) require larger installation and therefore more racks of amplifier equipment.					F						P

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Timing, Scoring and Results Operations																			
Results Data Entry Position	-	-	-	-	Location(s) for event results and/or statistics data entry during competition.	As noted below.	High Security. Fully redundant power (mains & generator) with UPS to all results data entry equipment/workstations. Space & FF&E for all data entry personnel & results management staff.	Adequate weather (rain/sun) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
Field of Play	0	0	0	-	Areas/positions for results and/or statistics on the FOP.	Ideally located with Timing & Scoring Team, Sport Results Team and Officials.	-	May occur as a position on the FOP, or in a room with a view to the FOP.											
Back of House	0	0	0	-	Area back of house where data entry is performed into the OVR/Results System.	Sport Specific, but can be in warm-up or call areas.	-	Generally occurs Back of House, in sport location.											
Timing and Scoring Position	-	-	-	-	Location(s) for event timing & scoring personnel & equipment during competition.	Sport Specific. However, all locations must have view to FOP	High Security Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards & OVR room. Space & FF&E for operators and equipment. Adequate weather (rain/sun) protection for equipment/workstations to be provided.	-	I	I	I	F						R	IF, Swatch
Start Position	1	1	1	2	Position where clock is started for event.	Located with sport at race start position.	Cable access to OVR room between all intermediate timing points, aligner hut & start position	-											
Intermediate Hut Aligner	6	1	6	9	Position where boats are officially aligned using alignment video camera.	Located in line with boats along start position.	-	-											
Intermediate Hut 100m Time Trial Start	6	1	6	9	Time trials starting line with high speed camera. Contingency plan starting position.	Located at 100 meter line from start position.	-	-											
Intermediate Hut 250m	-	-	-	-	Intermediate timing position.	Located at 250 meter line from start position.	-	Intermediate Hut for Rowing (100m) can be moved to 250m position.											
Intermediate Hut 500m	6	1	6	9	Intermediate timing position.	Located at 500 meter line from start position.	-	-											
Intermediate Hut 750m	-	-	-	-	Intermediate timing position.	Located at 750 meter line from start position.	-	Intermediate Hut for Rowing (500m) can be moved to 750m position.											
Intermediate Hut 1000m	6	1	6	9	Intermediate timing position for RO & start position for CF.	Located at 1000 meter line from start position.	-	-											
Intermediate Hut 1500m	6	1	6	9	Intermediate timing position for RO & start position for CF.	Located at 1500 meter line from start position.	Cable access to OVR room between all intermediate timing points, aligner hut & start position	-											
Photo Finish Control Room	6	1	6	9	Location of photo finish viewer/reader equipment.	Located in Finish Tower, top floor.	Cable access to OVR Room & photo finish camera.	-											
Control Room	35	1	35	45	Location for central Timing & Scoring control operations, including Backup C system, Event Management & photo-finish system.	Located in Finish Tower with view to FOP.	Cable access to OVR Room, Photo Finish Control & Intermediate Positions along course	-											
On Venue Results (OVR)	-	-	-	-	Location is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	Located in Finish Tower.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Space & FF&E required for high density of computer workstations, racks for servers and working space for technicians, operators and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or venues where two sports occur concurrently will require more space for additional OVR equipment.	I	F								P	
OVR Provider Work Area	25	1	25	32	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO/CIS/PRD etc).	Ideally adjacent to IT provider work area.	-	-											
IT Provider Work Area	20	1	20	25	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-											
Scoreboard Control	-	-	-	-	Location of scoreboard control operations. Operations integral with those of Sport Production, data provided from OVR System. Space for both Control and Interface workstations & 2 x operational personnel.	Located in Finish Tower with Sport Production, or with Timing/scoring team. However view to FOP & Public Scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.	I	F							G	P	
Scoreboard Control	2	1	2	4	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator & workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-											
Scoreboard Interface	2	1	2	4	Area for interface equipment (PC workstations) linking OVR system & Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-											

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Results Printing (PRD)	Varies	1	Varies	-	Location for hard copy results production & distribution. Location of high intensity work involving many staff preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area & position for the Print Distribution Workstation (IDS interface) equipment and operator.	Near/adjacent to Press Workroom, access to Press Tribunes, Broadcast Commentary Positions, Sport Information Desk, Doping & Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specification. Space & FF&E required for equipment and operational staff as well as space for 1 x pallet of paper to support print/copy operations.	-	I	I	I	F						R	IF, Swatch
TV Graphics Interface	3	1	3	6	Location where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operators & good cable access to OVR room.	-				I		F			G	P	
Technology Storage																			
Technology General Storage	15	1	15	18	Location for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F					G	P	
IT Bulk Storage	30	1	30	38	Storage area for all spare IT equipment & associated boxes/containers.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to IT provider at all times.				F					G	P	
Reprographic Primary Storage Area	12	1	12	15	Primary storage/technical area in-venue for reprographic provider. Storage for spare parts, additional devices and consumables serving primarily Results Printing Operations.	In venue location adjacent to, or within Results Printing Room.	High Security - lockable. Standard office environment with standard power. Workspace & FF&E for one technician.	-		I		F					G	P	
Reprographic Bulk Storage Area	15	1	15	18	Storage area for bulk paper allocated to venue (multiple pallets).	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of paper required to support venue operations.				F					G	P	
Timing and Scoring Workshop	20	1	20	25	In venue storage & workshop for timing equipment, spare parts & small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.	-		I		F					G	P	
Timing & Scoring Bulk Store	40	1	40	50	Storage area for large crates & containers used for scoreboards and bulk equipment. Must be accessible to OVR provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of Timing & Scoring equipment deployed to venue. May be combined with Timing & Scoring Workshop if location & size of space meet requirements for venue.		I		F					G	P	
Audio Visual Bulk Store	30	1	30	38	Storage area for large crates & containers used for video boards, PA equipment & TV boxes. Must be accessible to Video/Public address provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of audio/video equipment deployed to venue.				F					G	P	
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closet. CCFs are to be installed in locations that allow for easy access for service technicians and which allow for easy cable access both from TER room and to user device locations.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Work Room.	High Security - lockable and weatherproof. May require fan or dedicated A/C depending on room location and/or configuration. Fully redundant power (mains and generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.		I		F						P	
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of power from data/voice and audio-visual cabling.	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in a manner which allows for easy access and repair/replacement. Legacy installations are to be installed as permanent while temporary (overlay) should be installed using methods which are easily installed and removed minimising potential damage to existing venue.				F						P	
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.														
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.														
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.														

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CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	-												
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	-												
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-												
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-												
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-												
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-												
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-												
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing and Scoring/OVR contractor.		I		F							P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.												
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.		I		F							P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the videoboard. Required for outdoor venues where the videoboard cannot be suspended from ceiling structure.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each videoboard.												
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Production on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.		I		F						G	P	
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to/from audio/PA amplification system and/or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend PA speakers from venue ceiling structure.	-	-	-												
Mobile Phone Infrastructure (antenna)	-	Varies	-	-	Infrastructure required to support installation of additional radio antenna & mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to/from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.		I		F						G	P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Ticketing																			
Ticket Box Office	40	1	40	100	An area at the venue where Olympic tickets are sold.	Adjacent to the secure perimeter; near the spectator entry point of the venue.	Gross area includes internal & external queue.	Assumes container unit with disabled access to internal and external service window. Dependant upon venue layout and footprint, spectator access point locations.											P
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	15	1	15	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s)	15	1	15	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	25	1	25	50	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.											P
Driver Staging	80	1	80	150	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.											P
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside venue secure perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	20	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-											P
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from Host City, based on vehicle/bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J							I	P
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J							I	P
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F							P
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.				F						I	G IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.				F							G IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.		I		F							G IOC
Spectator and Staff Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				F							P
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.		I		F							P
Accessible	-	-	-	-	-	-	-	Part of Spectator total.				F							P
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Surface areas paved or gravel.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have drop-off in close proximity to accredited entry point and then driver driver will park.			I	F							P
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.				F							P
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.				F							P
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-			J	J							P
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes vehicle circulation.				F							P
Emergency Services	-	-	-	50 (each)	-	Generally located inside the Secure Venue Perimeter.	-	Includes vehicle circulation.				F							P

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Venue Development																			
Site Management Compound	503	1	503	650	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Dependent upon venue footprint, extent of temporary works and number of contractors.											P
Site Management Area	60	1	60	-	-	-	Enclosed space.	-											
Site Manager & Assistant Site Manager(s) Work Area	12	1	12	-	Work and meeting area for the Site Manager and Assistant Site Manager.	-	-	-											
Site Administration Desk & Work Area	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-	-											
Response Team & Vendor Staging	24	1	24	-	On-site permanent and temporary facilities for specialty staff and general labor crew to be on-call.	-	-	-											
Secure Storage - Site Management	12	1	12	-	Area for storage.	-	-	-											
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.	-	Enclosed space. Area for office, staging and a secure storage area.	Assumes container units or existing space. Contractor usually installs container units at their own cost.											
Sign/Look Staging, Work Space/Secure Storage	50	1	50	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	-	Assumes container unit or existing space.											
Material Warehouse/Construction Work Space	80	1	80	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	-	Enclosed space.	Assumes tent or canopy with 2 side walls. Area for carpentry, painting and general construction. Storage for non-weather proof materials.											
Vendor Secure Storage	60	1	60	-	Area for containers, usually provided by the various temporary construction sub-contractors.	-	Enclosed space.	Assumes container units or existing space.											
Materials Staging Area	50	1	50	-	Area for the off-loading and loading of bulk construction materials.	-	Area only.	-											
Exterior Storage Area	50	1	50	-	Outdoor storage of material and products.	-	Area only.	Weatherproof area for large and bulk materials.											
Vehicle Staging	90	1	90	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	-	Area only.	Service, Repair & Specialty vehicles.											
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.		I		F							P
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.	-		I		F							P
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.		I		F							P
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.											
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-	-											

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Venue Management																				
Venue Operations Centre (VOC)	60	1	60	90	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Dependent upon venue capacity and venue layout.											P	
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-												
Assigned Desks	20	1	20	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.												
Hot Desks	10	1	10	-	Shared work stations.	-	-	-												
Work Space and Storage	18	1	18	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.												
Venue Communication Centre (VCC)	40	1	40	50	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.											P	
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-												
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-												
Communication Operators (VCC Operators)	24	1	24	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	8-10 people.												
Storage	8	1	8	-	Equipment storage area.	-	-	-												
Multi-purpose Room (MPR)	150	1	150	180	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre.	Enclosed space.	Assumes existing space or tent. Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.											P	
Workforce																				
Workforce Area	150	1	150	180	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.											P	
Check-In Area	96	1	96	-	Area to log-in venue staff and contractors by day or shift.	-	Check-in desks.	-												
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-												
Information Desk, Lost & Found & Work Area	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-												
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-												
Workforce Break & Dining Area	335	1	335	400	The space where workforce meals are served and where workforce can break during their shift.	A location that will provide easy access to all workforce for breaks and meals; will vary according to venue layout/size.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon venue workforce numbers.											P	
END OF DOCUMENT																				

SAILING

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation					
Accreditation																								
Venue Accreditation Office	50	1	50	125	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.											P	-				
Day Pass Issue & Problem Resolution Desk	15	1	15	-																				
Work Area	15	1	15	-																				
Manager Desk or Office & Storage	12	1	12	-																				
Waiting Area	8	1	8	-																				
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	-	Enclosed space. Required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.					F					P	-					
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Broadcast																								
Broadcast Compound	-	1	-	2500	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements.																
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Gross area includes snow removal access. Assumes container unit.																
Broadcast Manager Office	12	1	12	-		-	-	-	-															
Work Room, Assigned and Unassigned Desks	48	1	48	-		-	-	-	-															
Technical Operations Centre	40	1	40	100	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Broadcast Catering	140	1	140	180	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	-																
Kitchen and Prep	20	1	20	-		-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.															
Buffet Line and Dining	120	1	120	-		-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.															
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements. Located in temporary structure. Assumes container/trailer unit or tent.																
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	-																
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-																
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters. Located in temporary structure. Assumes container/trailer unit or tent.																
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	-																
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-																
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.																
Toilets	1.5	8	12	36	Toilet units designated for broadcast personnel.	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Commentator Control Room (CCR)	45	1	45	55	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in close proximity to commentator position area.	Enclosed space with incoming television cable.	Assumes existing space or container unit.																
Broadcast Information Office (BIO)	20	1	20	25	Space for broadcast management and team meetings.	Located near commentator positions and CCR	Enclosed space.	Assumes existing space or container unit.																
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-																
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J													
Mixed Zone	25	1	25	170	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Adjacent to the FOP.	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I	I	J													
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in seating areas with view to FOP and covered when possible.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Outdoor commentator positions should have the option of cover for protection from various weather conditions (e.g. sun, rain). Space for commentator positions may vary according to actual venue/permanent seating setup.																

SAILING

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	Located at the rear of the commentator grouping so as not to disrupt the FOP view of other commentator positions.	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	A com-cam position equals 2 adjacent commentator positions.			I	J			J	I			
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions.	1 position = uses 1 seat in existing seating bowls.	-			I	J			J	I		R	IOC
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions. The primary source of camera positions are the use of helicopters and boats.	FOP Camera positions are dependent upon production plans and IF approval. Space for camera positions may vary according to actual venue/permanent seating setup.	J		I	J			J	J		R	IOC
Camera Position - Other	4	20	80	180	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions. The primary source of camera positions are the use of helicopters and boats.	Space for camera positions may vary according to actual venue/permanent seating setup.	I		I	J			J	I		R	IOC
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-					J	I	J			G	IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	See also Technology requirements.					J	I	J			G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in Back of House areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.					J	I	J			G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography	J			J	I	J	I			R	IOC
Catering																			
Catering Compound	565	1	565	850	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity. Gross area includes snow removal access.		I		F						P	
Work Areas - Catering Management	28	1	28	-		-	Enclosed space.	Assumes existing space or container.											
Organising Committee Catering Manager	-	-	-	-		Located in Venue Operations Centre.	See Venue Management - VOC.	-											
Catering Contractor	16	1	16	-		-	-	-											
Beverage Contractor	12	1	12	-	Operational work space(s).	-	-	-											
Dry, Cold and Ice Storage	38	6	228	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.											
Vehicle Staging	90	1	90	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-											
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-											
Kitchen and Preparation Area	80	1	80	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.											
Uncovered Storage	75	1	75	-	Outdoor storage of material and products.	-	Area only.	-											
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilets should be provided.											
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit.	-											
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container's). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity and level of catering activity.		I		F						P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	See Look for details.	-		I		F						P	

SAILING

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Ceremonies																				
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-											P	
Ceremonies Staging	36	1	36	45	For the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule; to coordinate location of podium, procession, and recession route, and location of flagpoles.	Adjacent to or close to FOP.	Consists of coordinator work space with area for anthem storage, secure storage, preparation and dressing area; see below for additional details.	Assumes existing space or container.											P	
Manager Desk	6	1	6	-	Workspace for Manager.	-	-	-												
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenters, Medal/Flower staging, Secure medal and flag storage	22	1	22	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format. Medals storage is not required for those venues where the medal ceremony will take place at another location.												
Presenter Preparation and Dressing	4	2	8	-	A dressing and preparation area for Presenters.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-												
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	Close to FOP.	Limited use, may be shared with other space. See Sport Presentation.	-		I		F							P	
Awards Podium Storage	12	1	12	15	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	-			I	F							P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.	I		J	J				J	G	R	IOC	
Cleaning and Waste																				
Cleaning & Waste Compound	252	1	252	350	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependant upon venue capacity.											P	
Vehicle Staging	72	1	72	-	Parking area for collection vehicles which generally remain inside the venue.	-	Area only.	-												
Sorting Area	72	1	72	-	Area for sorting waste.	-	Area only.	-												
Waste & Recycle Containers	15	4	60	-	Area in front of waste and recycle bins where material is separated for containment.	-	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).												
Compactor Unit	25	Varies	Varies	-	Area in front of waste and recycle bins where material is separated for containment.	-	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.												
Equipment Supply & Storage	15	2	30	-	Space for cleaning equipment and paper product.	-	Enclosed space.	Assumes container unit.												
Contractor Office	18	1	18	-	Space for management and workforce staging.	-	Enclosed space.	-												
Doping Control																				
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	-	J		J	J							R	IOC
Waiting Area/Reception	26	1	26	30	Area where athletes check-in and wait prior to testing.	-	-	-												
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Blood Processing Room(s)	15	Varies	Varies	20 (each)	Area where athlete blood samples are provided and sealed	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Office / Storage	12	1	12	15	Work and storage space for Doping Manager.	-	Enclosed space. Secure storage.	-												
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-	I		J	J							R	IOC

SAILING

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.					F					P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of workforce pre-shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large group.	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.					F					P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.					F					P	
Information Desk	-	-	-	-	-	-	-	-											
Lost and Found	-	-	-	-	A holding area for items found in the venue.	-	-	-											
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spectators.	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	-	-	Will depend on level of service at venue.					F					P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes; located between screening/search area and spectator plaza.	Total number generally 50% of security screening positions.					F					P	
Stroller Storage	Varies	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	In close proximity to seating area.	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.					F					P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.					F					P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators					F					P	
Spectator Shade and Shelter	Varies	Varies	Varies	72 (each)	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and spectator service amenities.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.					F					P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-					F					P	
Spectator Toilets	1.5	Varies	Varies	5 (each) 6 (per 20 toilets)	Toilet units designated for spectators.	Located in FOH, close proximity to seating and spectator amenities.	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.					F					P	
Hand Wash Stations	1	Varies	Varies		A chemical unit used in the absence of potable water.	Located in FOH, close proximity to seating and spectator amenities.	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.					F					P	

SAILING

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Finance																				
Work Space / Desk	20	1	20	25	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I			F						P	
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Generally located inside venue perimeter and outside venue perimeter.	Area only.	Quantity dependent upon venue capacity.												
Language Services																				
Work Area / Desk	-	-	20	25	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre.	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-			J	J			I				G	IOC
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference needs.	-			J	J			I				G	IOC
Logistics																				
Logistics Compound	-	1	Varies	650	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access. Secondary Compound Area - an additional compound area may be necessary for staging or storage of equipment that is in close proximity to FOP and/or the finish area.											P	
Logistics Centre	60	1	60	-	-	-	Enclosed space.	Assumes container units or tent.												
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-												
Team Staging/Work Area	33	1	33	-	Space for staging and a work area.	-	-	-												
Secure Storage & Equipment Sign-out	15	1	15	-	Area for storage.	-	Storage for tools.	-												
Warehouse Storage	90	1	90	-	Storage area for furniture, fixtures, and equipment (FF&E).	-	Enclosed space.	Assumes tent												
Storage Yard	75	1	75	-	Outside storage area within compound.	-	Area only.	-												
Vehicle Staging	100	1	100	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-												
Fuel Tank(s)	9	Varies	Varies	25 (each)	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.												
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.												
Material Transfer Area (MTA)	-	1	-	575	Generally for deliveries to the venue that may take place after hours or not within the logistics delivery window period.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.											P	
X-Ray Area	36	1	36	72	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.												

SAILING

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Look of the Games																				
Work Area and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.					F					P		
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J					J		R	IOC	
National Olympic Committee (NOC) Flags	Varies	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition sch	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.			J	J				J		R	IOC	
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and back of locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J				J	G	R,P	IOC, IF	
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals.	-												
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH).	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.		I	J	J				J	G	R	IOC, L	
Backdrop - Press Conference Room	2.2 x 6	-	-	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F		I	I					
Medical Services																				
Athlete Medical	65	1	65	100	An area where Medical provides services to athletes competing at the venue.	Located in Back of House within the accredited athlete area.	Enclosed space.	Assumes container or existing space.	J	J	J					J		R	IF	
Reception & Waiting	12	1	12	-	Area where athletes check-in and wait prior to examination.	-	-	-												
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-												
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-												
Physiotherapy Area(s)	8	2	16	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-												
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J					J		R	IF	
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.												
Spectator Medical	50	1	50	100	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed space. 1 per 20,000 spectators.	Assumes container unit or existing space.		I	F		I	I				P		
Reception & Waiting	12	1	12	-	Area where spectators check-in and wait prior to examination.	-	-	-												
Medical Work Space & Secure Storage	12	1	12	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-												
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-												
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Triage Station	36	1	38	72	Additional space to treat minor medical needs of spectators.	Located in the Front of House.	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.		I	F		I	I				P		
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.					F	I				P		
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Area only. Paved, graveled or grass area with fence, barricade or rope enclosure.	-					F	I				P		

SAILING

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Merchandise																				
Office, Cash Room & Work Area	12	1	12	15		-	Enclosed space with secure entry.	Assumes container unit or existing space.					F					P		
Storage	15	2	30	35	An area to manage the retailing of all Olympic merchandise inside the venue.	-	-	Assumes storage containers or existing space. Units provided by vendor. Quantity and location decided by vendor and OCOG.				F						P		
Program Sales Stands/Booths	1	1	1	2		-	Area only.					F						P		
Merchandise Points of Sale (POS)	6	Varies	Varies	18 (each)	Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.	Gross area is per each P.O.S. and includes service area and queue.		I		F						P		
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.			I	J	J						G	R	IOC
Olympic Family Services																				
Olympic Family Lounge	240	1	240	500	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests. Area to greet Olympic Family and respond to transport requests.	-	Enclosed space.	Assumes tent.	I		I	F					I	G	G	IOC
Welcome Desk and Transportation Desk	6	1	6	-		-	-													
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.													
Staff/Volunteer Room and Storage	12	1	12	-	On-call waiting area for Protocol staff and equipment storage.	-	-													
Dining and Lounge	140	1	140	-	Area for dining and lounge.	-	-													
Preparation/Buffer set-up/Beverage Area	70	1	70	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Staff/Volunteer, Athlete, Media)													
Toilets	30	1	30	60	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	4 female, 4 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided				F							P	
Protocol flags	-	-	-	-	-	-	See Look of the Games.				J	J							R	IOC
Press Operations																				
Venue Media Centre (VMC)	600	1	600	800	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Confer Reception desk at the entrance, for information distribution.	Close proximity to Press Tribune, Press Conference room, and Mixed Zone area.	Enclosed space for 145 press and 25 photographers.	Assumes tent.				F						R	IOC	
Reception & Information Desk	24	1	24	-		-	-													
Storage	6	1	6	-	Equipment storage.	-	-													
Press Manager Office	12	1	12	-	Operational work space.	-	-													
Photo Manager Office	12	1	12	-	Operational work space.	-	-													
Olympic News Service (ONS) Work Room or Area	35	1	35	-	Operational work space.	-	Enclosed space.													
Info Stations	28	1	28	-	Computer stations and printers.	-	-													
Press Work Room or Area	240	1	240	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.												
Photo Work Room or Area	50	1	50	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.													
Photographers Check-in & Photo Bib Distribution	12	1	12	-	Area where photographers register and receive/return photo bibs.	-	-													
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.												
Lounge/Catering Prep	100	1	100	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-													
Toilets	1.5	8	12	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided												

SAILING

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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Press Conference Room	100	1	100	240	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I			F						R	IOC
Seating Area	60	1	60	-	An area for accredited press.	-	Seats and standing room.	-											
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3.6 m table, 8 chairs & step and repeat backdrop.	-											
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-											
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-											
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-				F			I	I			
Mixed Zone	20 linear mtrs.	1	20 linear mtrs.	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I		I	F						R	IOC,IF
Press Tribune	-	-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	-	Tabled seating is fitted out with telephones, television monitors, power and other press facilities (indoor venues). For outdoor venues, these services will exist in VMC.	-											
Press Tabletop Seating	Varies	Varies	Varies	-	-	Easy access from Venue Media Centre and direct access if possible to Mixed Zone.	<u>In an existing stadium or seating area:</u> 1 seat wide (folding chairs at 60 cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50 cm deep tabletop per position, each position = 2 stadium seats. <u>Temporary Stands:</u> 1 seat (folding chairs at 60 cm spacing) x 2 rows deep of proposed seating system (normally 150 cm-170 cm deep).	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.			I	F					R	IOC,IF	
Press Seating (non-tabled)	Varies	Varies	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.			I	F						R	IOC,IF
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided											
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	Boats on FOP.	-	-											
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	In close proximity to FOP.	60cm wide x 90cm deep per position, multi-row areas require 60cm riser per row. See Venue Seating for quantities by sport.	Power, Wireless and data cabling needed to photo positions on FOP.	J		I	J						R	IOC, IF
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Normal seating areas.	See Venue Seating for quantities by sport.	Seating areas are generally not applicable for outdoor venues.	I		I	F						G	IOC
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

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Security																			
Security Command Centre	120	1	120	145	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.											
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-											
Security Work Area	15	1	15	-	An area for additional security agencies.	-	-	-											
CCTV Surveillance & Video Desk	15	1	15	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-											
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.											
Radio Dispatch & Monitoring	15	1	15	-	An area for the monitoring and control of security communication and the distribution/return of radios.	-	-	-											
Work Room	50	1	50	-	Open plan of work stations designated for security personnel.	-	-	-											
Secure Storage	10	1	10	-	An area for Security equipment storage.	-	Enclosed, secure space.	-											
Dog Cage(s)	4	Varies	Varies	8 (each)	Holding area for security dogs.	-	Area only for enclosed portable units (e.g. cages).	Dependent upon Host City/Country / Risk Assessment.											
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-											
Briefing and Break Area / Staging Area	140	1	140	170	Area for briefing staff before and after shifts.	-	Enclosed space.	Assumes tent.											
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.											
Vehicle Screening & Sanitisation Area	569	1	569	800	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.											
Vehicle Queue	175	1	175	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-											
Oversized Vehicle Queue	140		140	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-											
Vehicle Sanitisation & Wanding Areas	150		75	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.											
Oversized Vehicle (Truck & Bus) Sanitisation	70		70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-											
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.											
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Enclosed space for staging and break.	-											
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the venue secure perimeter and/or venue screening area for constituents.	-	Dependent upon spectator capacity and venue design.											
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-											
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-											
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-											
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.											

SAILING

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Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the venue secure perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.										R	IOC
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the venue secure perimeter.	Enclosed space for screening/search area positions.. Net area for each screening position will accommodate the following: 4 Wanding Stations, OR 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue. Dependent upon spectator capacity and venue design.											
Athlete / Team	18	1-2	18-36	36-72	-	BOH.	-	-				F						R	IOC
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with Athlete and/or Olympic Family.				F						G	IOC
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with TO, ENG and/or Press.				F						P	
Broadcast	18	1-2	18-36	45-90	-	BOH.	-	If possible, direct access from outside venue perimeter into Broadcast Compound.											
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	BOH; located in close proximity to Venue Broadcast Compound.	-	-											
Press and Photographer	18	1-2	18-36	36-72	-	BOH; located in close proximity to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast).	If possible, direct access from outside venue perimeter into Venue Media Centre.				F	I						
Workforce (Staff/Volunteer/Contractor/Vendor)	18	2-3	36-54	90-135	-	BOH or possibly FOH.	-	-				J	J					P	
Spectator / Sponsors	18	Varies	Varies	54	-	FOH.	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-	I			F						P	
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.				F		I				P	
Exception Gate	Varies	Varies	Varies	-	Access gate for designated accredited personnel.	FOH; located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.				F						P	
X-ray of bags	36	Varies	Varies	72 (each)	Device for screening bags/equipment coming into the venue.	FOH and BOH.	Covered.	-				F	I					P	
Venue Perimeter Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	Dependent upon spectator capacity and venue design.											
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	1m to 3m width, sometimes used as a secondary service vehicle exit point.	-											
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m each, number varies per concourse design.	-											
Workforce (Staff/Volunteer/Contractor/Vendor)	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	Size dependant upon total workforce numbers.				I	F				G	P	
Sponsor Services																			
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.				I	F					P	

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Sport Operations																			
Competition Management	75	1	75	70	A work area for Sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located close to Athlete Area and FOP; may be co-located within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space.	I				F					P	
Competition Manager & Asst. Manager Desks	12	1	12	-	An area for the Manager and Assistant(s) Manager.	-	-	-											
Assigned Work Area	24	1	24	-	Open plan of work stations designated for Sport personnel.	-	-	-											
Hot Desks	15	1	15	-	Shared work stations.	-	-	-											
Work Area	24	1	24	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-											
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-											
Sport Information	40	1	40	50	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located in Athlete Area.	Enclosed space with waiting area and seating.	Includes: information boards, pigeon holes, Info & Help Desk, work area, info terminal stations & storage.	J			J						R	IF
								Assumes tent unit.											
Athlete Lounge	600	1	600	800	An area where athletes can relax at the venue while not training or competing.	Located in Athlete Area.	Enclosed space.	Includes: seating area, lounge, Info & Help Desk, info terminal stations.	J			J						R	IF
Athlete Dressing, Locker, Shower, Toilet	100	2	200	260	Change-room facilities to accommodate athletes at the venue during competition and training.	Located in Athlete Area.	Enclosed space.	Assumes container units or existing space. Separate facilities for men and women.	J			J						R	IF
IF & Sport Meeting Room	30	1	30	45	Meeting facility at the venue for the International Federation and Competition Management.	Located in close proximity to the IF Area and Competition Management area.	Enclosed space.	Shared meeting room area between IF & Sport to serve various meeting needs.	J			J						G	IF
Sport Equipment Storage	30	1	30	40	Storage for athlete/team sport equipment.	Located adjacent to FOP or within close proximity.	-	-	J			J	I					R	IF
Team Containers	10 x 2	Varies	Varies	Varies	Additional storage for NOCs.	Located in BOH.	8 ft x 40 ft containers.	Normally 2 containers per team.											
FOP Equipment Storage	10 x 2	2	40	70	Storage of equipment required for competition.	Located adjacent to FOP or within close proximity.	2 x 40 ft containers.	-	I			F	I					R	IF
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	Reference should be made to ISAF guidelines for all FOP technical requirements.	-											
Playing Surface Dimensions or Area	-	-	-	-	-	-	5 areas with an average diameter of 1 nautical mile.	-	F			I						R	IF
Surface	-	-	-	-	-	-	Water	-	J			J	I					R	IF
Orientation	-	-	-	-	-	-	-	-	J			J	I					R	IF
Launching Pontoons	15 x 30	4	1800	3 000															
Team Boat Storage	-	-	-	-			Boards - 5m x 2m; Single-handed - 5m x 3m; Double-handed 7m x 3m; Dinghy - 7m x 3m; Keelboats - 10m x 3m, Catamaran 7m x 5m.	-											
Sailboard Racks	-	-	-	-		Adjacent to team container location.	Must be allocated 5m x 3m rigging area, preferably carpeted. 9 Racks - 8 boards per rack; a total of 65 boards.	-											
Mooring Facilities	-	-	-	-			Mooring facilities for 130 race management boats and additional space will be required for 120 coach boats.	-											
Measurement Area	-	-	-	1000			Gross area only.	-											

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Sports Lighting - Technical	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											
Athlete / Team Seating	-	-	-	-	A designated seating area for athletes.	-	-	-	J	I	J								
Same Sport	-	Varies	-	-	-	-	-	-	J	I	J							R	IOC,IF
Different Sport	-	Varies	-	-	-	-	-	-	I	I	F							R	IOC
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	May be required for Sport Staff use. Quantity varies according to athlete numbers.				F						P	
International Federation																			
IF Area	60	1	60	65	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located in close proximity to accredited seating areas.	Enclosed space.	Assumes container units or existing space.	I	I	F							R	IF
IF President's Office	15	1	15	-	-	-	-	-	I	I	F							R	IF
IF Secretary - General/Executive Director's Office	15	1	15	-	-	-	-	-	I		F							G	IF
Reception, Secretariat, Waiting & Work Area	30	1	30	-	-	-	-	-	I		F							G	IF
Jury Area	225	1	225	275	This space is utilised for the resolution of protests and appeals after competition.	-	-	Assumes container units or existing space.	I		F							R	IF
Chairman Office	10	1	10	-	-	-	-	-											
Reception	40	1	40	-	-	-	-	-											
Waiting Room	75	1	75	-	-	-	-	-											
Main Jury Room	40	1	40	-	-	-	-	-											
Jury Room 2	20	1	20	-	-	-	-	-											
Jury Room 3	20	1	20	-	-	-	-	-											
Jury Room 4	20	1	20	-	-	-	-	-											
Lounge - International Technical Officials	50	1	50	60	A rest area for officials.	-	-	Assumes container units or existing space.	J		J							G	IF
Officials Locker Room, Shower, Toilet	30	2	60	70	A change area for officials.	-	Male and female facilities required.	Male and female facilities may vary according to number of officials/judges.	I		F							R	IF
Technical Delegates Office & Work Area	15	1	15	20	Office area for Technical Delegates.	-	Enclosed space. 2 Technical Delegates.	-	I	I	F							R	IF
Race Committee	20	1	20	25	Area for race committee.	-	-	-	I	I	F							R	IF
Measurement Committee Room	40	1	40	45	Area for measurement committee room.	Located in close proximity to measurement hall.	Measurement Committee office with spaces for Chief Measurer and Deputy Chief.	-	I	I	F							R	IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I	J	J							R	IOC,IF
Sport Presentation																			
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.											
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-			F							P	
Announcer Position	3	1	3	-	-	-	-	-			F							P	
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space, consisting of work area, green room, entertainer staging and dressing and prop storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.				F						P	

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Technology Operations																			
Technology Help Desk	16	1	16	20	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support staff & manager.	-				F						P	
Venue Technology Operations (VTO)	25	1	25	32	OCOG Technology Operations area. Operational work space for entire Venue Technology team, including Partners & contractors.	Adjacent to or within Venue Operations Centre (VOC).	Medium security - lockable room. Air-conditioned as office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	-				F					G	P	
OCOG Venue Technology Work Area	-	1	-	-	Work space for Venue Technology Manager, Assistant Venue Technology Manager, Technology Workforce Manager and associated volunteer(s).	-	-	Work space size may be dependent upon workforce per shift.											
AV Contractor Work Area	-	1	-	-	Work space for AV contractors/Technicians.	-	-	Work space size may be dependent upon workforce per shift.											
IT Provider Work Area	-	1	-	-	Work space for IT workforce and "home base" for IT volunteers.	-	-	Work space size may be dependent upon workforce per shift.											
Reprographic Provider Work Area	-	1	-	-	Work space for reprographic contractors/technicians	-	-	Work space size may be dependent upon workforce per shift.											
Mobile Phone Provider Work Area	-	1	-	-	Workspace for mobile phone provider.	-	-	Work space size may be dependent upon workforce per shift. Charging area for Venue Operations workforce phones may be required.											
Wired Communications Provider Work Area	-	1	-	-	Work space for Wired Communications contractors/technicians.	-	-	Work space size may be dependent upon workforce per shift.											
Timing & Scoring/OVR Provider Work Area	-	1	-	-	Work space for OVR/Timing & Scoring contractors/technicians.	-	-	May not be required if adequate working space is allocated in OVR room.											
Radio Distribution Room (RDR)	15	1	15	18	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E and workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).	I			F						P	
Information Technology																			
Computer Equipment Room (CER)	20	1	20	25	Location for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.	I			F					G	P	
Data Local Area Network (LAN) Management Room & Store	25	1	25	32	LAN monitoring room & associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational staff & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces.				F					G	P	

SAILING

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Telecommunication & Audio Visual																			
Telecomm. Equipment Room (TER) Primary	36	1	36	45	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	Raised flooring is preferable for cabling distribution, but not essential.	I			F						P	
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER.	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.	I			F						P	
Telecomm. Operations & Store	20	1	20	25	Operational space for Telecommunications technical staff and associated storage for spare parts.	Adjacent to TER.	As TER with adequate FF&E to support operational staff & storage.	If located adjacent to TER, power supply boards, UPS units & A/C services can be common for both spaces.	I			F						P	
Audio Control Positions																			
	-	-	-	-	-	-	-	-				F					G	P	
Venue	4	1	4	8	Area within Sport Production, location for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Production. Can be on FOP, in stands or in a booth with view to FOP.	High Security. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	Storage for country anthems.											
Press Conference	4	1	4	8	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), air-conditioned, waterproof. Work space & FF&E for operator.	PA system may also be used for Competition Draw if draw is held in Press Conference room.											
Warm-Up Area	0	0	0	-	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Within Warm-up area for Athletes.	Standard/mains power & FF&E.	-											
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-											
Workforce Break/Dining	2	Varies	Varies	-	Area within Staff Break/Training room where audio control equipment is installed to facilitate meetings/training of large numbers of staff.	Workforce break/dining areas.	Standard/mains power & FF&E.	-											
Video Board Control	0	0	0	-	Location of video control for video board or video projection system. Operations integral with those of Sport Production.	Ideally with Sport Production. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	-				F					G	P	
Wired Communications Control	0	0	0	-	Location of wired communications master control station and support technician. System essential to operations of both Sport Production and Results/FOP management.	Near to or within Sport Production is preferable. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location is located outdoors. Good cable access to FOP, OVR Room, Sport Production, Broadcast Graphics Room & Results Printing required. Workspace & FF&E for one technician, control equipment, spare parts and containers/boxes for equipment.	-				F					G	P	
Temporary PA equipment Room	2 min	1	2 min	4 min.	Temporary location for installation of PA active equipment (amplifiers etc) for venue PA system.	In existing PA equipment room, if applicable. May be located under venue seating/tribunes if existing room not available.	High Security. Fully redundant power (mains & standby generator) to equipment. Good cable access to speaker location and PA/Audio Control position required. Equipment installed in racks. Each rack set is 1000H x 600W x 600 D maximum.	Number of racks will depend on size of system deployed. Generally venues with large geographic area (outdoor) require larger installation and therefore more racks of amplifier equipment.					F					P	

SAILING

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

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Timing, Scoring and Results Operations																			
Results Data Entry Position	-	-	-	-	Location(s) for event results and/or statistics data entry during competition.	As noted below.	High Security. Fully redundant power (mains & generator) with UPS to all results data entry equipment/workstations. Space & FF&E for all data entry personnel & results management staff.	Adequate weather (rain/sun) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
Field of Play	0	0	0	-	Areas/positions for results and/or statistics on the FOP.	Ideally located with Timing & Scoring Team, Sport Results Team and Officials.	-	May occur as a position on the FOP, or in a room with a view to the FOP.											
Timing and Scoring Position				-	Location(s) for event timing & scoring personnel & equipment during competition.	Sport Specific. However, all locations must have view to FOP	High Security Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards & OVR room. Space & FF&E for operators and equipment. Adequate weather (rain/sun) protection for equipment/workstations to be provided.	-	I	I	I	F						R	IF, Swatch
Control Room	30	1	30	38	Location for all DGPS & Telemetry equipment & operations, Timing and Back Up C.	Sport Specific/Venue Specific location. <u>NO view to FOP required.</u>	Cable access to OVR room & RF Antennas required.	May be incorporated into OVR room if feasible.											
On Venue Results (OVR)	-	-	-	-	Location is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	Easy access to FOP critical for technical and results staff.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Space & FF&E required for high density of computer workstations, racks for servers and working space for technicians, operators and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or venues where two sports occur concurrently will require more space for additional OVR equipment.	I	F								P	
OVR Provider Work Area	30	1	30	38	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO/CIS/PRD etc).	Ideally adjacent to IT provider work area.	-	-											
IT Provider Work Area	18	1	18	23	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-											
Scoreboard Control	-	-	-	-	Location of scoreboard control operations. Operations integral with those of Sport Production, data provided from OVR System. Space for both Control and Interface workstations & 2 x operational personnel.	No spectators for SA, therefore no scoreboard required.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.	I	F							G	P	
Scoreboard Control	0	0	0	-	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator & workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-											
Scoreboard Interface	0	0	0	-	Area for interface equipment (PC workstations) linking OVR system & Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-											
Results Printing (PRD)	60	1	60	75	Location for hard copy results production & distribution. Location of high intensity work involving many staff preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area & position for the Print Distribution Workstation (IDS interface) equipment and operator.	Near/adjacent to Press Workroom, access to Press Tribunes, Broadcast Commentary Positions, Sport Information Desk, Doping & Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specification. Space & FF&E required for equipment and operational staff as well as space for 1 x pallet of paper to support print/copy operations.	-	I	I	I	F						R	IF, Swatch
TV Graphics Interface	3	1	3	6	Location where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operators & good cable access to OVR room.	-				I		F		G	P		

SAILING

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Technology Storage																			
Technology General Storage	15	1	15	18	Location for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F					G	P	
IT Bulk Storage	30	1	30	38	Storage area for all spare IT equipment & associated boxes/containers.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to IT provider at all times.				F					G	P	
Reprographic Primary Storage Area	12	1	12	15	Primary storage/technical area in-venue for reprographic provider. Storage for spare parts, additional devices and consumables serving primarily Results Printing Operations.	In venue location adjacent to, or within Results Printing Room.	High Security - lockable. Standard office environment with standard power. Workspace & FF&E for one technician.	-	I		F						G	P	
Reprographic Bulk Storage Area	-	1	-	-	Storage area for bulk paper allocated to venue (multiple pallets).	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of paper required to support venue operations.				F					G	P	
Timing and Scoring Workshop	10	1	10	13	In venue storage & workshop for timing equipment, spare parts & small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.	-	I		F						G	P	
Timing & Scoring Bulk Store	60	1	60	75	Storage area for large crates & containers used for scoreboards and bulk equipment. Must be accessible to OVR provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of Timing & Scoring equipment deployed to venue. May be combined with Timing & Scoring Workshop if location & size of space meet requirements for venue.				F					G	P	
Audio Visual Bulk Store	15	1	15	18	Storage area for large crates & containers used for video boards, PA equipment & TV boxes. Must be accessible to Video/Public address provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of audio/video equipment deployed to venue.				F					G	P	
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closet. CCFs are to be installed in locations that allow for easy access for service technicians and which allow for easy cable access both from TER room and to user device locations.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Work Room.	High Security - lockable and weatherproof. May require fan or dedicated A/C depending on room location and/or configuration. Fully redundant power (mains and generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.		I		F						P	
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of power from data/voice and audio-visual cabling.	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in an manner which allows for easy access and repair/replacement. Legacy installations are to be installed as permanent while temporary (overlay) should be installed using methods which are easily installed and removed minimising potential damage to existing venue.				F						P	
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.	-	-	-											
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.	-	-	-											
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.	-	-	-											

SAILING

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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	-												
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	-												
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-												
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-												
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-												
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-												
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-												
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing and Scoring/OVR contractor.	I			F							P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cablings) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.												
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F							P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the videoboard. Required for outdoor venues where the videoboards cannot be suspended from ceiling structure.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cablings) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each videoboard.												
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Production on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F						G	P	
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to/from audio/PA amplification system and/or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cablings) required to suspend PA speakers from venue ceiling structure.	-	-	-												
Mobile Phone Infrastructure (antenna)	-	Varies	-	-	Infrastructure required to support installation of additional radio antenna & mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to/from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.	I			F						G	P	

SAILING

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Ticketing																			
Ticket Box Office	40	1	40	100	An area at the venue where Olympic tickets are sold.	Adjacent to the secure perimeter; near the spectator entry point of the venue	Gross area includes internal & external queue.	Assumes container unit with disabled access to internal and external service window. Dependant upon venue layout and footprint, spectator access point locations.											P
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	15	1	15	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s)	15	1	15	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	25	1	25	50	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.											P
Driver Staging	80	1	80	150	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.											P
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside venue secure perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	20	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-											P
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from Host City, based on vehicle/bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J								P
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J								P
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F							P
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.				F							G IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.				F							G IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.			I	F							G IOC
Spectator and Staff Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				F							P
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F							P
Accessible	-	-	-	-	-	-	-	Part of Spectator total.				F							P
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Surface areas paved or gravel.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have drop-off in close proximity to accredited entry point and then driver will park.			I	F							P
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.				F							P
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.				F							P
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-			J	J							P
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes vehicle circulation.				F							P
Emergency Services	-	-	-	50 (each)	-	Generally located inside the Secure Venue Perimeter.	-	Includes vehicle circulation.				F							P

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Venue Development																				
Site Management Compound	503	1	503	650	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Dependent upon venue footprint, extent of temporary works and number of contractors.										P		
Site Management Area	60	1	60	-	-	-	Enclosed space.	-												
Site Manager & Assistant Site Manager(s) Work Area	12	1	12	-	Work and meeting area for the Site Manager and Assistant Site Manager.	-	-	-												
Site Administration Desk & Work Area	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-	-												
Response Team & Vendor Staging	24	1	24	-	On-site permanent and temporary facilities for specialty staff and general labor crew to be on-call.	-	-	-												
Secure Storage - Site Management	12	1	12	-	Area for storage.	-	-	-												
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.	-	Enclosed space. Area for office, staging and a secure storage area.	Assumes container units or existing space. Contractor usually installs container units at their own cost.												
Sign/Look Staging, Work Space/Secure Storage	50	1	50	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	-	Assumes container unit or existing space.												
Material Warehouse/Construction Work Space	80	1	80	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	-	Enclosed space.	Assumes tent or canopy with 2 side walls. Area for carpentry, painting and general construction. Storage for non-weather proof materials.												
Vendor Secure Storage	60	1	60	-	Area for containers, usually provided by the various temporary construction sub-contractors.	-	Enclosed space.	Assumes container units or existing space.												
Materials Staging Area	50	1	50	-	Area for the off-loading and loading of bulk construction materials.	-	Area only.	-												
Exterior Storage Area	50	1	50	-	Outdoor storage of material and products.	-	Area only.	Weatherproof area for large and bulk materials.												
Vehicle Staging	90	1	90	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	-	Area only.	Service, Repair & Specialty vehicles.												
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.	I			F							P	
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.	-	I			F							P	
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.	I			F							P	
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.												
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-	-												

SAILING

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Venue Management																			
Venue Operations Centre (VOC)	60	1	60	90	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Dependent upon venue capacity and venue layout.										P	
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-					F						
Assigned Desks	20	1	20	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Space and Storage	18	1	18	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	40	1	40	50	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.					F					P	
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	24	1	24	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	8-10 people.											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	150	1	150	180	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre.	Enclosed space.	Assumes existing space or tent. Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.					F					P	
Workforce																			
Workforce Area	150	1	150	180	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.					F					P	
Check-In Area	96	1	96	-	Area to log-in venue staff and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Area	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	335	1	335	400	The space where workforce meals are served and where workforce can break during their shift.	A location that will provide easy access to all workforce for breaks and meals; will vary according to venue layout/size.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon venue workforce numbers.					F					P	
END OF DOCUMENT																			

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation				
Accreditation																							
Venue Accreditation Office	40	1	40	100	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.										P	-				
Day Pass Issue & Problem Resolution Desk	10	1	10	-																			
Work Area	12	1	12	-																			
Manager Desk or Office & Storage	12	1	12	-																			
Waiting Area	6	1	6	-																			
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	-	Enclosed space. Required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.					F					P	-				
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.															
Broadcast																							
Broadcast Compound	-	1	-	2500	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements.															
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Gross area includes snow removal access. Assumes container unit.															
Broadcast Manager Office	12	1	12	-		-	-	-	-														
Work Room, Assigned and Unassigned Desks	48	1	48	-		-	-	-	-														
Technical Operations Centre	30	1	30	75	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Broadcast Catering	105	1	105	122	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	-															
Kitchen and Prep	15	1	15	-		-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.														
Buffet Line and Dining	90	1	90	-		-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.														
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements.															
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-															
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters.															
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-															
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.															
Toilets	1.5	4	6	18	Toilet units designated for broadcast personnel.	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.															
Commentator Control Room (CCR)	40	1	40	55	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in close proximity to commentator position area.	Enclosed space with incoming television cable.	Assumes existing space or container unit.															
Broadcast Information Office (BIO)	12	1	12	15	Space for broadcast management and team meetings.	Located near commentator positions and CCR	Enclosed space.	Assumes existing space or container unit.															
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-															
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J												
Mixed Zone	20	1	20	120	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Adjacent to the FOP.	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I	I	J												
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in seating areas with view to FOP and covered when possible.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Outdoor commentator positions should have the option of cover for protection from various weather conditions (e.g. sun, rain). Space for commentator positions may vary according to actual venue/permanent seating setup.															

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	Located at the rear of the commentator grouping so as not to disrupt the FOP view of other commentator positions.	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	A com-cam position equals 2 adjacent commentator positions.			I	J							
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions.	1 position = uses 1 seat in existing seating bowls.	-			I	J						R	IOC
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval. Space for camera positions may vary according to actual venue/permanent seating setup.	J		I	J						R	IOC
Camera Position - Other	4	15	60	135	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions. 15 camera positions each for range and skeet range.	Space for camera positions may vary according to actual venue/permanent seating setup.	I		I	J						R	IOC
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-					J	I				G	IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	See also Technology requirements.					J	I				G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in Back of House areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.					J	I				G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography	J			J	I					R	IOC
Catering																			
Catering Compound	394	1	394	600	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity. Gross area includes snow removal access.		I		F						P	
Work Areas - Catering Management	24	1	24	-		-	Enclosed space.	Assumes existing space or container.											
Organising Committee Catering Manager	-	-	-	-		Located in Venue Operations Centre.	See Venue Management - VOC.	-											
Catering Contractor	12	1	12	-		-	-	-											
Beverage Contractor	12	1	12	-	Operational work space(s).	-	-	-											
Dry, Cold and Ice Storage	38	4	152	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.											
Vehicle Staging	50	1	50	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-											
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-											
Kitchen and Preparation Area	54	1	54	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.											
Uncovered Storage	50	1	50	-	Outdoor storage of material and products.	-	Area only.	-											
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilets should be provided.											
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit.	-											
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container's). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity and level of catering activity.		I		F						P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	See Look for details.	-		I		F						P	

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Ceremonies																				
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-											P	
Ceremonies Staging	20	1	20	25	For the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule; to coordinate location of podium, procession, and recession route, and location of flagpoles.	Adjacent to or close to FOP.	Consists of coordinator work space with area for anthem storage, secure storage, preparation and dressing area; see below for additional details.	Assumes existing space or container.											P	
Manager Desk	6	1	6	-	Workspace for Manager.	-	-	-												
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenters, Medal/Flower staging, Secure medal and flag storage	12	1	12	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format. Medals storage is not required for those venues where the medal ceremony will take place at another location.												
Presenter Preparation & Dressing	4	2	8	-	A dressing and preparation area for Presenters.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-												
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	Close to FOP.	Limited use, may be shared with other space. See Sport Presentation.	-		I		F							P	
Awards Podium Storage	8	1	8	12	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	-			I	F							P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.	I		J	J					J	G	R	IOC
Cleaning and Waste																				
Cleaning & Waste Compound	175	1	175	250	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependant upon venue capacity.					F						P	
Vehicle Staging	50	1	50	-	Parking area for collection vehicles which generally remain inside the venue.	-	Area only.	-												
Sorting Area	50	1	50	-	Area for sorting waste.	-	Area only.	-												
Waste & Recycle Containers	15	3	45	-	Area in front of waste and recycle bins where material is separated for containment.	-	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).												
Compactor Unit	25	Varies	Varies	-		-	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.												
Equipment Supply & Storage	15	1	15	-	Space for cleaning equipment and paper product.	-	Enclosed space.	Assumes container unit.												
Contractor Office	15	1	15	-	Space for management and workforce staging.	-	Enclosed space.	-												
Doping Control																				
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	An Office and storage area will be incorporated into the existing spaces (e.g. waiting area/reception).	J		J	J							R	IOC
Waiting Area/Reception	16	1	16	20	Area where athletes check-in and wait prior to testing.	-	-	-												
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer. Wash basin for hand sanitisation.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-	I		J	J							R	IOC

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.					F					P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of workforce pre-shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large group.	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.					F					P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.					F					P	
Information Desk	-	-	-	-	-	-	-	-											
Lost and Found	-	-	-	-	A holding area for items found in the venue.	-	-	-											
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spectators.	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	-	-	Will depend on level of service at venue.					F					P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes; located between screening/search area and spectator plaza.	Total number generally 50% of security screening positions.					F					P	
Stroller Storage	Varies	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	In close proximity to seating area.	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.					F					P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.					F					P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators					F					P	
Spectator Shade and Shelter	Varies	Varies	Varies	72 (each)	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and spectator service amenities.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.					F					P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-					F					P	
Spectator Toilets	1.5	Varies	Varies	5 (each) 6 (per 20 toilets)	Toilet units designated for spectators.	Located in FOH, close proximity to seating and spectator amenities.	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.					F					P	
Hand Wash Stations	1	Varies	Varies		A chemical unit used in the absence of potable water.	Located in FOH, close proximity to seating and spectator amenities.	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.					F					P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Finance																				
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I			F						P	
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Generally located inside venue perimeter and outside venue perimeter.	Area only.	Quantity dependent upon venue capacity.												
Language Services																				
Work Area / Desk	20	1	20	25	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre.	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-		J	J			I				G	IOC	
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference needs.	-		J	J			I				G	IOC	
Logistics																				
Logistics Compound	-	1	Varies	500	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access. Secondary Compound Area - an additional compound area may be necessary for staging or storage of equipment that is in close proximity to FOP and/or the finish area.											P	
Logistics Centre	40	1	40	-	-	-	Enclosed space.	Assumes container units or tent.												
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-												
Team Staging/Work Area	25	1	25	-	Space for staging and a work area.	-	-	-												
Secure Storage & Equipment Sign-out	12	1	12	-	Area for storage.	-	Storage for tools.	-												
Warehouse Storage	65	1	65	-	Storage area for furniture, fixtures, and equipment (FF&E).	-	Enclosed space.	Assumes tent												
Storage Yard	50	1	50	-	Outside storage area within compound.	-	Area only.	-												
Vehicle Staging	75	1	75	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-												
Fuel Tank(s)	9	Varies	Varies	-	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.												
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.												
Material Transfer Area (MTA)	-	1	-	400	Generally for deliveries to the venue that may take place after hours or not within the logistics delivery window period.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.											P	
X-Ray Area	18	1	18	36	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.												

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Look of the Games																			
Work Area and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.					F					P	
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J					J		R	IOC
National Olympic Committee (NOC) Flags	-	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition sch	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.			J	J				J		R	IOC
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and back of locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J				J	G	R,P	IOC, IF
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals.	-											
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH).	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.		I	J	J				J	G	R	IOC, L
Backdrop - Press Conference Room	2.2 x 6	1	2.2 x 6	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F		I	I				
Medical Services																			
Athlete Medical	50	1	50	75	An area where Medical provides services to athletes competing at the venue.	Located within the accredited Athlete Area.	Enclosed air-conditioned space.	Assumes container or existing space.	J	J	J					J		R	IF
Reception & Waiting	10	1	10	-	Area where athletes check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	2	16	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Physiotherapy Area(s)	8	1	8	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J					J		R	IF
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.											
Spectator Medical	40	1	40	80	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed air-conditioned space. 1 per 20,000 spectators.	Assumes container unit or existing space.		I	F		I					P	
Reception & Waiting	10	1	10	-	Area where spectators check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	8	1	8	-	Space for Medical workforce.	-	-	-											
Examination Area(s)	8	2	16	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Triage Station	9	1	9	18	Additional space to treat minor medical needs of spectators.	Located in the Front of House.	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.		I	F		I					P	
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.					F	I				P	
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Paved, graveled or grass area with fence, barricade or rope enclosure.	-				F	I					P	

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Merchandise																				
Office, Cash Room & Work Area	12	1	12	15	An area to manage the retailing of all Olympic merchandise inside the venue.	-	Enclosed space with secure entry.	Assumes container unit or existing space.					F					P		
Storage	15	1	15	20		-	-	Assumes storage containers or existing space.					F						P	
Program Sales Stands/Booths	1	1	1	2		-	Area only.	Units provided by vendor. Quantity and location decided by vendor and OCOG.					F						P	
Merchandise Points of Sale (POS)	6	Varies	Varies	18		Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.	Gross area is per each P.O.S. and includes service area and queue.		I		F						P	
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-		I	J	J						G	R	IOC
Olympic Family Services																				
Olympic Family Lounge	162	1	162	370	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes tent.	I		I	F					I	G	G	IOC
Welcome Desk & Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-	-												
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.	-												
Staff/Volunteer Room & Storage	9	1	9	-	On-call waiting area for Protocol staff and equipment storage.	-	-	-												
Dining & Lounge	90	1	90	-	Area for dining and lounge.	-	-	-												
Preparation/Buffer set-up/Beverage Area	45	1	45	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Staff/Volunteer, Athlete, Media)	-												
Toilets	20	1	20	40	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	2 female, 2 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided				F							P	
Protocol flags	-	-	-	-	-	-	See Look of the Games.	-			J	J				J			R	IOC
Press Operations																				
Venue Media Centre (VMC)	425	1	425	600	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Confer	Close proximity to Press Tribune, Press Conference room, and Mixed Zone area.	Enclosed space for 70 press and 15 photographers. The one press work room serves both the indoor and shotgun/skeet tribunals. Should be centrally located to both competition areas.	Assumes tent.				F						R	IOC	
Reception & Information Desk	18	1	18	-	Welcome desk at the entrance, for information distribution.	-	-	-												
Storage	4	1	4	-	Equipment storage.	-	-	-												
Press Manager Office	12	1	12	-	Operational work space.	-	-	-												
Photo Manager Office	12	1	12	-	Operational work space.	-	-	-												
Olympic News Service (ONS) Work Room or Area	25	1	25	-	Operational work space.	-	Enclosed space.	-												
Info Stations	20	1	20	-	Computer stations and printers.	-	-	-												
Press Work Room or Area	180	1	180	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.												
Photo Work Room or Area	35	1	35	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.	-												
Photographers Check-in & Photo Bib Distribution	9	1	9	-	Area where photographers register and receive/return photo bibs.	-	-	-												
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.												
Lounge/Catering Prep	80	1	80	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-	-												
Toilets	1.5	6	9	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided												

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Press Conference Room	90	1	90	200	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I			F						R	IOC
Seating Area	50	1	50	-	An area for accredited press.	-	Seats and standing room.	-											
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3.6 m table, 8 chairs & step and repeat backdrop.	-											
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-											
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-											
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-				F			I	I			
Mixed Zone	20 linear mtrs.	2	40 linear mtrs.	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I		I	F						R	IOC,IF
Press Tribune	-	-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	-	Tabled seating is fitted out with telephones, television monitors, power and other press facilities (indoor venues). For outdoor venues, these services will exist in VMC.	-											
Press Tabletop Seating	Varies	Varies	Varies	-	-	Easy access from Venue Media Centre and direct access if possible to Mixed Zone.	<u>In an existing stadium or seating area:</u> 1 seat wide (folding chairs at 60 cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50 cm deep tabletop per position, each position = 2 stadium seats. <u>Temporary Stands:</u> 1 seat (folding chairs at 60 cm spacing) x 2 rows deep of proposed seating system (normally 150 cm-170 cm deep).	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.			I	F					R	IOC,IF	
Press Seating (non-tabled)	Varies	Varies	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.			I	F						R	IOC,IF
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided											
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-											
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	In close proximity to FOP.	Total peak number of Photographers: 50. 60cm wide x 90cm deep per position, multi-row areas require 60cm riser per row.	Power, Wireless and data cabling needed to photo positions on FOP.	J		I	J						R	IOC, IF
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Normal seating areas.	See Venue Seating for quantities by sport.	Seating areas are generally not applicable for outdoor venues.	I		I	F						G	IOC
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Security																			
Security Command Centre	100	1	100	120	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.											
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-											
Security Work Area	15	1	15	-	An area for additional security agencies.	-	-	-											
CCTV Surveillance & Video Desk	12	1	12	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-											
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.											
Radio Dispatch & Monitoring	12	1	12	-	An area for the monitoring and control of security communication and the distribution/return of radios.	-	-	-											
Work Room	40	1	40	-	Open plan of work stations designated for security personnel.	-	-	-											
Secure Storage	8	1	8	-	An area for Security equipment storage.	-	Enclosed, secure space.	-											
Dog Cage(s)	4	Varies	Varies	8 (each)	Holding area for security dogs.	-	Area only for enclosed portable units (e.g. cages).	Dependent upon Host City/Country / Risk Assessment.											
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-											
Briefing and Break Area / Staging Area	75	1	75	-	Area for briefing staff before and after shifts.	-	Enclosed space.	Assumes tent.											
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.											
Vehicle Screening & Sanitisation Area	377	1	377	500	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.											
Vehicle Queue	100	1	100	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-											
Oversized Vehicle Queue	70	1	70	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-											
Vehicle Sanitisation & Wanding Areas	100	1	100	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.											
Oversized Vehicle (Truck & Bus) Sanitisation	70	-	70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-											
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.											
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Enclosed space for staging and break.	-											
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the venue secure perimeter and/or venue screening area for constituents.	-	Dependent upon spectator capacity and venue design.											
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-											
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-											
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-											
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.											

SHOOTING

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the venue secure perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.										R	IOC
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the venue secure perimeter.	Enclosed space for screening/search area positions.. Net area for each screening position will accommodate the following: 4 Wanding Stations, OR 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue. Dependent upon spectator capacity and venue design.											
Athlete / Team	18	1-2	18-36	36-72	-	BOH.	-	-				F						R	IOC
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with Athlete and/or Olympic Family.				F						G	IOC
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with TO, ENG and/or Press.				F						P	
Broadcast	18	1-2	18-36	45-90	-	BOH.	-	If possible, direct access from outside venue perimeter into Broadcast Compound.											
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	BOH; located in close proximity to Venue Broadcast Compound.	-	-											
Press and Photographer	18	1-2	18-36	36-72	-	BOH; located in close proximity to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast).	If possible, direct access from outside venue perimeter into Venue Media Centre.				F	I						
Workforce (Staff/Volunteer/Contractor/Vendor)	18	2-3	36-54	90-135	-	BOH or possibly FOH.	-	-				J	J					P	
Spectator / Sponsors	18	Varies	Varies	54	-	FOH.	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-	I			F							P
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.				F		I					P
Exception Gate	Varies	Varies	Varies	-	Access gate for designated accredited personnel.	FOH; located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.				F							P
X-ray of bags	36	Varies	Varies	72 (each)	Device for screening bags/equipment coming into the venue.	FOH and BOH.	Covered.	-				F	I						P
Venue Perimeter Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	Dependent upon spectator capacity and venue design.											
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	1m to 3m width, sometimes used as a secondary service vehicle exit point.	-											
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m each, number varies per concourse design.	-											
Workforce (Staff/Volunteer/Contractor/Vendor)	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	Size dependant upon total workforce numbers.				I	F				G	P	
Sponsor Services																			
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.				I	F						P

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Sport Operations																			
Competition Management	45	1	45	70	A work area for Sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located close to Athlete Area and FOP; may be co-located within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space.	I				F					P	
Competition Manager & Asst. Manager Desks	12	1	12	-	An area for the Manager and Assistant(s) Manager.	-	-	-											
Assigned Work Area	15	1	15	-	Open plan of work stations designated for Sport personnel.	-	-	-											
Hot Desks	6	1	6	-	Shared work stations.	-	-	-											
Work Area	12	1	12	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-											
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-											
Sport Information	20	1	20	25	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located in Athlete Area.	Enclosed space with waiting area and seating.	Includes: information boards, pigeon holes, Info & Help Desk, work area, info terminal stations & storage.	J			J						R	IF
Athlete Lounge	100	1	100	125	An area where athletes can relax at the venue while not training or competing.	Located in Athlete Area.	-	Includes: seating area, lounge, Info & Help Desk, info terminal stations.	J			J						R	IF
Athlete Dressing, Locker, Shower, Toilet	40	4	160	200	Change-room facilities to accommodate athletes at the venue during competition and training.	Located in Athlete Area.	Enclosed air-conditioned space. Number of athletes accommodated by size standard is sport specific. Male and Female facilities.	Assumes container units or existing space.	J			J						R	IF
IF & Sport Meeting Room	30	1	30	45	Meeting facility at the venue for the International Federation and Competition Management.	Located in close proximity to the IF Area and Competition Management area.	Enclosed space.	Shared meeting room area between IF & Sport to serve various meeting needs.	J			J						G	IF
Equipment Control	20	Varies	Varies	30 (each)	Area for equipment distribution to athletes.	Located adjacent to FOP or within close proximity.	1 for each range. An entrance and exit set-up to efficiently facilitate athlete needs (e.g. like a conveyor belt system).	-	J			J	I					R	IF
Equipment Storage	50	Varies	Varies	65 (each)	Storage area for rifles, pistols, and shotguns and their ammunition.	Located adjacent to FOP or within close proximity.	1 storage are for each range set-up. Additional consideration should be given to the extra kit that is required for rifle events.	Quantity of storage areas will vary depending on the range set-up. Separate spaces for ammunition and guns storage rooms. Local legislation will vary for storage area requirements.	I			F	I	I				R	IF
Repair Room	25	Varies	Varies	35 (each)	-	Located in Athlete Area.	-	Quantity may vary according to number of existing or constructed ranges.	I			F	I					R	IF
Call Area	40	1	40	70	Athlete waiting area.	Located in trap and skeet range.	Required for finals only.	-	I			F	I					R	IF
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	Reference should be made to ISSF guidelines for all FOP technical requirements.	-											
Playing Surface Dimensions or Area	-	-	-	-	-	-	-	10, 25, and 50m pistol/rifle events can be set-up in existing gymnasiums or warehouse facilities that may have the appropriate capacity levels.	F			I						R	IF
10m Range	800	1	800	1216	-	-	Size of shooting range including backstop. Indoor facility. 60 firing positions.	-											
25m Range	1860	1	1860	2263	-	-	Size of shooting range area including backstop. Open air with covered roof. 60 firing positions.	The 25m discipline can be shot on the 50m range. Range requirements: it is not necessary to have 2 ranges for 25m and 50m. An enclosed / indoor facility would be ideal for use year round.											
50m Range	4400	1	4400	5000	-	-	Size of shooting range area including backstop. Open air with covered roof. 80 firing positions.	See above.											
Finals Range	1100	1	1150	1250	-	-	Generally, built indoors and/or open setting for all three distances on one range (10, 25, 50). Size of shooting range area including backstop. Space for 60 targets at 10 and 50; at 25m a minimum of 8 groups of 5 targets each.	Not a requirement to have a separate or permanent finals hall as this can be set-up using the 50m range or it can be a completely temporary facility with temporary seating installations to increase to the appropriate capacity levels.											
Trap and Skeet Range	3465	3	10395	13770	-	-	The shooting area requires 3 ranges (the minimum).	-											
Vertical Height Requirement	2.8m	1	2.8m	-	-	-	A minimum requirement of 2.8m.	-											
Surface	-	-	-	-	-	-	-	-	J			J	I					R	IF
Orientation	-	-	-	-	-	-	The shooting direction is to the north in the northern hemisphere.	-	J			J	I		I	J		R	IF

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Sports Lighting - Technical	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											
Athlete / Team Seating	-	-	-	-	A designated seating area for athletes.	-	-	-	J	I	J								
Same Sport	-	Varies	-	-	-	-	-	-	J	I	J							R	IOC,IF
Different Sport	-	Varies	-	-	-	-	-	-	I	I	F							R	IOC
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	May be required for Sport Staff use. Quantity varies according to athlete numbers.				F						P	
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	Required if FOP is not located near Athlete Area.	Assumes temporary units. Quantity varies according to athlete numbers.				F						P	
International Federation																			
IF Area	60	1	60	70	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located in close proximity to accredited seating areas and range area.	Enclosed space.	Assumes container units or existing space.	I	I	F							R	IF
IF President's Office	15	1	15	-	-	-	-	-	I	I	F							R	IF
IF Secretary - General/Executive Director's Office	15	1	15	-	-	-	-	-	I		F							G	IF
Reception, Secretariat, Waiting & Work Area	30	1	30	-	-	-	-	-	I		F							G	IF
Jury & Appeals & Arbitration Room	30	1	30	45	This space is utilised for the resolution of protests and appeals after competition.	-	Enclosed space.	Assumes container units or existing space.	I		F							R	IF
Competition Committee Office	20	1	20	25	A meeting and work area for the competition committee.	-	Enclosed space.	Assumes container units or existing space.	I		F							G	IF
Officials Lounge	50	1	50	60	A rest area for officials.	-	Enclosed space.	Assumes container units or existing space.	J		J							G	IF
Referees Room	20	1	20	25	Area for referees.	Located in range areas.	Enclosed space.	Assumes container units or existing space.	I		F							G	IF
Technical Delegates Office & Work Area	15	1	15	20	Office area for Technical Delegates.	-	Enclosed space. 2 Technical Delegates.	Assumes container units or existing space.	I	I	F							R	IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I	J	J							R	IOC,IF
Sport Presentation																			
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.											
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-			F							P	
Announcer Position	3	1	3	-	-	-	-	-			F							P	
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space, consisting of work area, green room, entertainer staging and dressing and prop storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.				F						P	

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Technology Operations																			
Technology Help Desk	16	1	16	20	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support staff & manager.	-				F						P	
Venue Technology Operations (VTO)	25	1	25	32	OCOG Technology Operations area. Operational work space for entire Venue Technology team, including Partners & contractors.	Adjacent to or within Venue Operations Centre (VOC).	Medium security - lockable room. Air-conditioned as office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	-				F					G	P	
OCOG Venue Technology Work Area	-	1	-	-	Work space for Venue Technology Manager, Assistant Venue Technology Manager, Technology Workforce Manager and associated volunteer(s).	-	-	Work space size may be dependent upon workforce per shift.											
AV Contractor Work Area	-	1	-	-	Work space for AV contractors/Technicians.	-	-	Work space size may be dependent upon workforce per shift.											
IT Provider Work Area	-	1	-	-	Work space for IT workforce and "home base" for IT volunteers.	-	-	Work space size may be dependent upon workforce per shift.											
Reprographic Provider Work Area	-	1	-	-	Work space for reprographic contractors/technicians	-	-	Work space size may be dependent upon workforce per shift.											
Mobile Phone Provider Work Area	-	1	-	-	Workspace for mobile phone provider.	-	-	Work space size may be dependent upon workforce per shift. Charging area for Venue Operations workforce phones may be required.											
Wired Communications Provider Work Area	-	1	-	-	Work space for Wired Communications contractors/technicians.	-	-	Work space size may be dependent upon workforce per shift.											
Timing & Scoring/OVR Provider Work Area	-	1	-	-	Work space for OVR/Timing & Scoring contractors/technicians.	-	-	May not be required if adequate working space is allocated in OVR room.											
Radio Distribution Room (RDR)	15	1	15	18	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E and workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).	I			F						P	
Information Technology																			
Computer Equipment Room (CER)	20	1	20	25	Location for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.	I			F					G	P	
Data Local Area Network (LAN) Management Room & Store	25	1	25	32	LAN monitoring room & associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational staff & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces.				F					G	P	

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Telecommunication & Audio Visual																				
Telecomm. Equipment Room (TER) Primary	36	1	36	45	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	Raised flooring is preferable for cabling distribution, but not essential.		I		F							P	
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.		I		F							P	
Telecomm. Operations & Store	25	1	25	32	Operational space for Telecommunications technical staff and associated storage for spare parts.	Adjacent to TER.	As TER with adequate FF&E to support operational staff & storage.	If located adjacent to TER, power supply boards, UPS units & A/C services can be common for both spaces.		I		F							P	
Audio Control Positions																				
	-	-	-	-	-	-	-	-				F						G	P	
Venue	4	1	4	8	Area within Sport Production, location for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Production. Can be on FOP, in stands or in a booth with view to FOP.	High Security. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	Storage for country anthems.												
Press Conference	4	1	4	8	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), air-conditioned, waterproof. Work space & FF&E for operator.	PA system may also be used for Competition Draw if draw is held in Press Conference room.												
Trap & Skeet Hut 1	2	1	2	4	Area for audio control equipment and announcer. System used by official to make announcement to athlete/shooter during competition.	At Hut 1 location as advised by Sport.	-	Number of ranges may vary depending on Sport requirements & venue planning												
Trap & Skeet Hut 2	2	1	2	4	-	At Hut 2 location as advised by Sport.	-	-												
Trap & Skeet Hut 3	2	1	2	4	-	At Hut 3 location as advised by Sport.	-	-												
Trap & Skeet Hut 4	2	1	2	4	-	At Hut 4 location as advised by Sport.	-	-												
Athlete Rest Area	2	1	2	4	Athlete Call Up PA system required for facilitate call athletes to range/FOP. Space required for amplifier/microphone.	In Rest Area as advised by Sport.	-	-												
Warm-Up Area	2	1	2	4	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Within Warm-up area for Athletes.	Standard/mains power & FF&E.	-												
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-												
Workforce Break/Dining	2	Varies	Varies	-	Area within Staff Break/Training room where audio control equipment is installed to facilitate meetings/training of large numbers of staff.	Workforce break/dining areas.	Standard/mains power & FF&E.	Venue and sport specific.												
Video Board Control	4	1	4	8	Location of video control for video board or video projection system. Operations integral with those of Sport Production.	Ideally with Sport Production. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	Requirement based on deployment of Videoboard to ATH (mobile board).				F					G	P		
Wired Communications Control	4	1	4	8	Location of wired communications master control station and support technician. System essential to operations of both Sport Production and Results/FOP management.	Near to or within Sport Production is preferable. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location is located outdoors. Good cable access to FOP, OVR Room, Sport Production, Broadcast Graphics Room & Results Printing required. Workspace & FF&E for one technician, control equipment, spare parts and containers/boxes for equipment.	-				F					G	P		
Temporary PA equipment Room	2 min	1	2 min	4 min.	Temporary location for installation of PA active equipment (amplifiers etc) for venue PA system.	In existing PA equipment room, if applicable. May be located under venue seating/tribunes if existing room not available.	High Security. Fully redundant power (mains & standby generator) to equipment. Good cable access to speaker location and PA/Audio Control position required. Equipment installed in racks. Each rack set is 1000H x 600W x 600 D maximum.	Number of racks will depend on size of system deployed. Generally venues with large geographic area (outdoor) require larger installation and therefore more racks of amplifier equipment.				F							P	

SHOOTING

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

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Timing, Scoring and Results Operations																			
Results Data Entry Position	-	-	-	-	Location(s) for event results and/or statistics data entry during competition.	As noted below.	High Security. Fully redundant power (mains & generator) with UPS to all results data entry equipment/workstations. Space & FF&E for all data entry personnel & results management staff.	Adequate weather (rain/sun) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
Trap & Skeet Hut/Data Entry Locations	16	4	64	80	Position (4m2) for manual score data entry by officials at each Trap & Skeet range location (4 off).	Located adjacent to each Trap & Skeet range.	Cable pathways to Timing & Scoring Control & sport specific scoreboards for each Trap & Skeet Range.	Number of ranges may vary depending on Sport requirements & venue planning											
Target Range Hut 10m	16	1	16	20	Position for automated results data entry from Target Range.	Located adjacent to each Target Range.	Cable pathway to OVR room.	Number of targets may vary depending on Sport requirements & venue planning											
Target Range Hut 25m	16	1	16	20	-	-	-	-											
Target Range Hut 50m	16	1	16	20	Area back of house where data entry is performed into the OVR/Results System.	Sport Specific, but can be in warm-up or call areas.	-	Generally occurs Back of House, in Sport location.											
Timing and Scoring Position	-	-	-	-	Location(s) for event timing & scoring personnel & equipment during competition.	Sport Specific. However, all locations must have view to FOP	High Security Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards & OVR room. Space & FF&E for operators and equipment. Adequate weather (rain/sun) protection for equipment/workstations to be provided.	-	I	I	I	F						R	IF, Swatch
Control Room - Trap and Skeet	30	1	30	38	Location for scoring collation from each range and results operations equipment & personnel.	Located in at Trap & Skeet finals range .	Cable access to each skeet range & OVR room.	Based on 4 x Target locations in ATH. SYD had 8 x Targets.											
On Venue Results (OVR)	-	-	-	-	Location is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	Easy access to FOP critical for technical and results staff.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Space & FF&E required for high density of computer workstations, racks for servers and working space for technicians, operators and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or venues where two sports occur concurrently will require more space for additional OVR equipment.	I	F								P	
OVR Provider Work Area	20	1	20	25	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO/CIS/PRD etc).	Ideally adjacent to IT provider work area.	-	-											
IT Provider Work Area	18	1	18	23	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-											
Scoreboard Control	-	-	-	-	Location of scoreboard control operations. Operations integral with those of Sport Production, data provided from OVR System. Space for both Control and Interface workstations & 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.	I	F							G	P	
Scoreboard Control	2	1	2	4	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator & workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-											
Scoreboard Interface	2	1	2	4	Area for interface equipment (PC workstations) linking OVR system & Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-											

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Results Printing (PRD)	70	1	70	85	Location for hard copy results production & distribution. Location of high intensity work involving many staff preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area & position for the Print Distribution Workstation (IDS interface) equipment and operator.	Near/adjacent to Press Workroom, access to Press Tribunes, Broadcast Commentary Positions, Sport Information Desk, Doping & Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specification. Space & FF&E required for equipment and operational staff as well as space for 1 x pallet of paper to support print/copy operations.	-	I	I	I	F						R	IF, Swatch
TV Graphics Interface	3	1	3	6	Location where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operators & good cable access to OVR room.	-				I		F			G	P	
Technology Storage																			
Technology General Storage	15	1	15	18	Location for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F					G	P	
IT Bulk Storage	30	1	30	38	Storage area for all spare IT equipment & associated boxes/containers.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to IT provider at all times.				F					G	P	
Reprographic Primary Storage Area	12	1	12	15	Primary storage/technical area in-venue for reprographic provider. Storage for spare parts, additional devices and consumables serving primarily Results Printing Operations.	In venue location adjacent to, or within Results Printing Room.	High Security - lockable. Standard office environment with standard power. Workspace & FF&E for one technician.	-	I		F						G	P	
Reprographic Bulk Storage Area	15	1	15	18	Storage area for bulk paper allocated to venue (multiple pallets).	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of paper required to support venue operations.				F					G	P	
Timing and Scoring Workshop	10	1	10	13	In venue storage & workshop for timing equipment, spare parts & small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.	-	I		F						G	P	
Timing & Scoring Bulk Store	50	1	50	60	Storage area for large crates & containers used for scoreboards and bulk equipment. Must be accessible to OVR provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of Timing & Scoring equipment deployed to venue. May be combined with Timing & Scoring Workshop if location & size of space meet requirements for venue.	I		F						G	P	
Audio Visual Bulk Store	30	1	30	38	Storage area for large crates & containers used for video boards, PA equipment & TV boxes. Must be accessible to Video/Public address provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of audio/video equipment deployed to venue.				F					G	P	
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closet. CCFs are to be installed in locations that allow for easy access for service technicians and which allow for easy cable access both from TER room and to user device locations.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Work Room.	High Security - lockable and weatherproof. May require fan or dedicated A/C depending on room location and/or configuration. Fully redundant power (mains and generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.	I		F							P	
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of power from data/voice and audio-visual cabling.	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in an manner which allows for easy access and repair/replacement. Legacy installations are to be installed as permanent while temporary (overlay) should be installed using methods which are easily installed and removed minimising potential damage to existing venue.				F						P	
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.	-	-	-											
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.	-	-	-											
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.	-	-	-											

SHOOTING

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	-											
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	-											
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-											
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-											
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-											
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-											
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-											
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing and Scoring/OVR contractor.	I			F							P
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.											
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F							P
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the videoboard. Required for outdoor venues where the videoboards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each videoboard.											
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Production on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F						G	P
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to/from audio/PA amplification system and/or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend PA speakers from venue ceiling structure.	-	-	-											
Mobile Phone Infrastructure (antenna)	-	Varies	-	-	Infrastructure required to support installation of additional radio antenna & mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to/from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.	I			F						G	P

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Ticketing																			
Ticket Box Office	30	1	30	75	An area at the venue where Olympic tickets are sold.	Adjacent to the secure perimeter; near the spectator entry point of the venue	Gross area includes internal & external queue.	Assumes container unit with disabled access to internal and external service window. Dependant upon venue layout and footprint, spectator access point locations.										P	
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-					F						
Internal Ticket Sales Window(s)	10	1	10	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s)	10	1	10	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	18	1	18	36	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.					F					P	
Driver Staging	55	1	55	100	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.					F					P	
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside venue secure perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	12	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-					F					P	
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from Host City, based on vehicle/bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J							P	
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J							P	
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F						P	
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.				F		I				G	IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.				F						G	IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.	I			F						G	IOC
Spectator and Staff Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				F						P	
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.	I			F						P	
Accessible	-	-	-	-	-	-	-	Part of Spectator total.				F						P	
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Surface areas paved or gravel.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have drop-off in close proximity to accredited entry point and then driver will park.			I	F						P	
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.				F		I				P	
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.				F		I				P	
Press and Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-		J	J							P	
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes vehicle circulation.				F		I				P	
Emergency Services	-	-	-	50 (each)	-	Generally located inside the Secure Venue Perimeter.	-	Includes vehicle circulation.				F		I				P	

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Venue Development																			
Site Management Compound	348	1	348	520	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Dependent upon venue footprint, extent of temporary works and number of contractors.										P	
Site Management Area	45	1	45	-	-	-	Enclosed space.	-											
Site Manager & Assistant Site Manager(s) Work Area	12	1	12	-	Work and meeting area for the Site Manager and Assistant Site Manager.	-	-	-											
Site Administration Desk & Work Area	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-	-											
Response Team & Vendor Staging	18	1	18	-	On-site permanent and temporary facilities for specialty staff and general labor crew to be on-call.	-	-	-											
Secure Storage - Site Management	9	1	9	-	Area for storage.	-	-	-											
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.	-	Enclosed space. Area for office, staging and a secure storage area.	Assumes container units or existing space. Contractor usually installs container units at their own cost.											
Sign/Look Staging, Work Space/Secure Storage	35	1	35	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	-	Assumes container unit or existing space.											
Material Warehouse/Construction Work Space	55	1	55	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	-	Enclosed space.	Assumes tent or canopy with 2 side walls. Area for carpentry, painting and general construction. Storage for non-weather proof materials.											
Vendor Secure Storage	30	1	30	-	Area for containers, usually provided by the various temporary construction sub-contractors.	-	Enclosed space.	Assumes container units or existing space.											
Materials Staging Area	30	1	30	-	Area for the off-loading and loading of bulk construction materials.	-	Area only.	-											
Exterior Storage Area	30	1	30	-	Outdoor storage of material and products.	-	Area only.	Weatherproof area for large and bulk materials.											
Vehicle Staging	60	1	60	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	-	Area only.	Service, Repair & Specialty vehicles.											
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.	I			F						P	
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.	-	I			F						P	
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.	I			F						P	
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.											
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-	-											

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Venue Management																			
Venue Operations Centre (VOC)	45	1	45	70	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Dependent upon venue capacity and venue layout.										P	
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-					F						
Assigned Desks	15	1	15	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	6	1	6	-	Shared work stations.	-	-	-											
Work Space and Storage	12	1	12	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	30	1	30	40	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.					F					P	
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	15	1	15	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	8-10 people.											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	100	1	100	120	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre.	Enclosed space.	Assumes existing space or tent. Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.					F					P	
Workforce																			
Workforce Area	120	1	120	150	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.					F					P	
Check-In Area	76	1	76	-	Area to log-in venue staff and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Area	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	175	1	175	210	The space where workforce meals are served and where workforce can break during their shift.	A location that will provide easy access to all workforce for breaks and meals; will vary according to venue layout/size.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon venue workforce numbers.					F					P	
END OF DOCUMENT																			

TABLE TENNIS

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Accreditation																				
Venue Accreditation Office	40	1	40	100	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.										P	-	
Day Pass Issue & Problem Resolution Desk	10	1	10	-																
Work Area	12	1	12	-																
Manager Desk or Office & Storage	12	1	12	-																
Waiting Area	6	1	6	-																
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	-	Enclosed space. Required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.				F						P	-	
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.				F								
Broadcast																				
Broadcast Compound	-	1	-	2500	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements.												
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Gross area includes snow removal access. Assumes container unit.				J		J				R	IOC	
Broadcast Manager Office	12	1	12	-		-	-	-	-				I		F				G	IOC
Work Room, Assigned and Unassigned Desks	48	1	48	-		-	-	-	-											
Technical Operations Centre	30	1	30	75	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.				I		F				R	IOC	
Broadcast Catering	105	1	105	122	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	-												
Kitchen and Prep	15	1	15	-		-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.											
Buffet Line and Dining	90	1	90	-		-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.											
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements. Located in temporary structure. Assumes container/trailer unit or tent.												
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	-												
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-												
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters. Located in temporary structure. Assumes container/trailer unit or tent.												
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	-												
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-												
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.												
Toilets	1.5	4	6	18	Toilet units designated for broadcast personnel.	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Commentator Control Room (CCR)	50	1	50	65	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in close proximity to commentator position area.	Enclosed space with incoming television cable.	Assumes existing space or container unit.				I		F				R	IOC	
Broadcast Information Office (BIO)	12	1	12	15	Space for broadcast management and team meetings.	Located near commentator positions and CCR	Enclosed space.	Assumes existing space or container unit.				J		J				R	IOC	
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-				J		J				G	IOC	
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J			J	J			R	IOC	
Mixed Zone	20	1	20	120	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Adjacent to the FOP.	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I	I	J			J	I			R	IOC, IF	
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in seating areas with view to FOP and covered when possible.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Outdoor commentator positions should have the option of cover for protection from various weather conditions (e.g. sun, rain). Space for commentator positions may vary according to actual venue/permanent seating setup.				I	J					R	IOC	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	Located at the rear of the commentator grouping so as not to disrupt the FOP view of other commentator positions.	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	A com-cam position equals 2 adjacent commentator positions.			I	J			J	I			
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions.	1 position = uses 1 seat in existing seating bowls.	-			I	J			J	I		R	IOC
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval. Space for camera positions may vary according to actual venue/permanent seating setup.	J		I	J			J	J		R	IOC
Camera Position - Other	4	25	100	225	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	Space for camera positions may vary according to actual venue/permanent seating setup.	I		I	J			J	I		R	IOC
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-					J	I	J			G	IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	See also Technology requirements.					J	I	J			G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in Back of House areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.					J	I	J			G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography	J			J	I	J	I			R	IOC
Catering																			
Catering Compound	394	1	394	600	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity. Gross area includes snow removal access.		I		F						P	
Work Areas - Catering Management	24	1	24	-		-	Enclosed space.	Assumes existing space or container.											
Organising Committee Catering Manager	-	-	-	-		Located in Venue Operations Centre.	See Venue Management - VOC.	-											
Catering Contractor	12	1	12	-		-	-	-											
Beverage Contractor	12	1	12	-	Operational work space(s).	-	-	-											
Dry, Cold and Ice Storage	38	4	152	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.											
Vehicle Staging	50	1	50	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-											
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-											
Kitchen and Preparation Area	54	1	54	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.											
Uncovered Storage	50	1	50	-	Outdoor storage of material and products.	-	Area only.	-											
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilets should be provided.											
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit.	-											
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container's). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity and level of catering activity.		I		F						P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	See Look for details.	-		I		F						P	

TABLE TENNIS

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Ceremonies																				
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-											P	
Ceremonies Staging	20	1	20	25	For the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule; to coordinate location of podium, procession, and recession route, and location of flagpoles.	Adjacent to or close to FOP.	Consists of coordinator work space with area for anthem storage, secure storage, preparation and dressing area; see below for additional details.	Assumes existing space or container.											P	
Manager Desk	6	1	6	-	Workspace for Manager.	-	-	-												
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenters, Medal/Flower staging, Secure medal and flag storage	12	1	12	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format. Medals storage is not required for those venues where the medal ceremony will take place at another location.												
Presenter Preparation & Dressing	4	2	8	-	A dressing and preparation area for Presenters.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-												
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	Close to FOP.	Limited use, may be shared with other space. See Sport Presentation.	-		I									P	
Awards Podium Storage	8	1	8	12	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	-			I	F							P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.	I		J	J				J	G	R	IOC	
Cleaning and Waste																				
Cleaning & Waste Compound	175	1	175	250	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependant upon venue capacity.					F						P	
Vehicle Staging	50	1	50	-	Parking area for collection vehicles which generally remain inside the venue.	-	Area only.	-												
Sorting Area	50	1	50	-	Area for sorting waste.	-	Area only.	-												
Waste & Recycle Containers	15	3	45	-	Area in front of waste and recycle bins where material is separated for containment.	-	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).												
Compactor Unit	25	Varies	Varies	-		-	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.												
Equipment Supply & Storage	15	1	15	-	Space for cleaning equipment and paper product.	-	Enclosed space.	Assumes container unit.												
Contractor Office	15	1	15	-	Space for management and workforce staging.	-	Enclosed space.	-												
Doping Control																				
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	An Office and storage area will be incorporated into the existing spaces (e.g. waiting area/reception).	J		J	J							R	IOC
Waiting Area/Reception	16	1	16	20	Area where athletes check-in and wait prior to testing.	-	-	-												
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer. Wash basin for hand sanitisation.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-	I		J	J							R	IOC

TABLE TENNIS

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.					F					P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of workforce pre-shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large group.	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.					F					P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.					F					P	
Information Desk	-	-	-	-	-	-	-	-											
Lost and Found	-	-	-	-	A holding area for items found in the venue.	-	-	-											
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spectators.	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	-	-	Will depend on level of service at venue.					F					P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes; located between screening/search area and spectator plaza.	Total number generally 50% of security screening positions.					F					P	
Stroller Storage	Varies	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	In close proximity to seating area.	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.					F					P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.					F					P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators					F					P	
Spectator Shade and Shelter	Varies	Varies	Varies	72 (each)	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and spectator service amenities.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.					F					P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-					F					P	
Spectator Toilets	1.5	Varies	Varies	5 (each) 6 (per 20 toilets)	Toilet units designated for spectators.	Located in FOH, close proximity to seating and spectator amenities.	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.					F					P	
Hand Wash Stations	1	Varies	Varies		A chemical unit used in the absence of potable water.	Located in FOH, close proximity to seating and spectator amenities.	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.					F					P	

TABLE TENNIS

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Finance																				
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I			F					P		
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Generally located inside venue perimeter and outside venue perimeter.	Area only.	Dependant upon venue capacity.												
Language Services																				
Work Area / Desk	15	1	15	20	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre.	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-		J	J			I				G	IOC	
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference needs.	-		J	J			I				G	IOC	
Logistics																				
Logistics Compound	-	1	Varies	500	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access. Secondary Compound Area - an additional compound area may be necessary for staging or storage of equipment that is in close proximity to FOP and/or the finish area.											P	
Logistics Centre	40	1	40	-	-	-	Enclosed space.	Assumes container units or tent.												
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-												
Team Staging/Work Area	25	1	25	-	Space for staging and a work area.	-	-	-												
Secure Storage & Equipment Sign-out	12	1	12	-	Area for storage.	-	Storage for tools.	-												
Warehouse Storage	65	1	65	-	Storage area for furniture, fixtures, and equipment (FF&E).	-	Enclosed space.	Assumes tent												
Storage Yard	50	1	50	-	Outside storage area within compound.	-	Area only.	-												
Vehicle Staging	75	1	75	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-												
Fuel Tank(s)	9	Varies	Varies	-	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.												
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.												
Material Transfer Area (MTA)	-	1	-	400	Generally for deliveries to the venue that may take place after hours or not within the logistics delivery window period.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.											P	
X-Ray Area	18	1	18	36	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.												

TABLE TENNIS

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Look of the Games																			
Work Area and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.					F					P	
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J					J		R	IOC
National Olympic Committee (NOC) Flags	-	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition sch	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.			J	J				J		R	IOC
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and back of locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J				J	G	R,P	IOC, IF
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals.	-											
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH).	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.		I	J	J				J	G	R	IOC, L
Backdrop - Press Conference Room	2.2 x 6	1	2.2 x 6	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F		I	I				
Medical Services																			
Athlete Medical	50	1	50	75	An area where Medical provides services to athletes competing at the venue.	Located within the accredited Athlete Area.	Enclosed air-conditioned space.	Assumes container or existing space.	J	J	J					J		R	IF
Reception & Waiting	10	1	10	-	Area where athletes check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	2	16	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Physiotherapy Area(s)	8	1	8	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J					J		R	IF
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.											
Spectator Medical	40	1	40	80	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed air-conditioned space. 1 per 20,000 spectators.	Assumes container unit or existing space.		I	F		I	I				P	
Reception & Waiting	10	1	10	-	Area where spectators check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	8	1	8	-	Space for Medical workforce.	-	-	-											
Examination Area(s)	8	2	16	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Triage Station	9	1	9	18	Additional space to treat minor medical needs of spectators.	Located in the Front of House.	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.		I	F		I	I				P	
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.				F	I	I				P	
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Paved, graveled or grass area with fence, barricade or rope enclosure.	-				F	I	I				P	

TABLE TENNIS

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	I	J	F	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Merchandise																						
Office, Cash Room & Work Area	12	1	12	15		-	Enclosed space with secure entry.	Assumes container unit or existing space.							F						P	
Storage	15	1	15	20	An area to manage the retailing of all Olympic merchandise inside the venue.	-	-	Assumes storage containers or existing space. Units provided by vendor. Quantity and location decided by vendor and OCOG.						F							P	
Program Sales Stands/Booths	1	1	1	2		-	Area only.	Gross area is per each P.O.S. and includes service area and queue.						F							P	
Merchandise Points of Sale (POS)	6	Varies	Varies	18	Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.					I		F							P	
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.					I	J	J					G	R	IOC	
Olympic Family Services																						
Olympic Family Lounge	162	1	162	370	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes tent.	I						F				I	G	G	IOC
Welcome Desk & Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-															
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.															
Staff/Volunteer Room & Storage	9	1	9	-	On-call waiting area for Protocol staff and equipment storage.	-	-															
Dining & Lounge	90	1	90	-	Area for dining and lounge.	-	-															
Preparation/Buffer set-up/Beverage Area	45	1	45	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Staff/Volunteer, Athlete, Media)															
Toilets	20	1	20	40	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	2 female, 2 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided							F						P	
Protocol flags	-	-	-	-	-	-	See Look of the Games.							J	J						R	IOC
Press Operations																						
Venue Media Centre (VMC)	400	1	400	600	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Confer	Close proximity to Press Tribune, Press Conference room, and Mixed Zone area.	Enclosed space for 100 press and 20 photographers.	Assumes tent. Often a shared workroom with another sport in the same venue. This is a recommendation for Table Tennis as a stand alone sport.							F						R	IOC
Reception & Information Desk	18	1	18	-	Welcome desk at the entrance, for information distribution.	-	-															
Storage	4	1	4	-	Equipment storage.	-	-															
Press Manager Office	12	1	12	-	Operational work space.	-	-															
Photo Manager Office	12	1	12	-	Operational work space.	-	-															
Olympic News Service (ONS) Work Room or Area	25	1	25	-	Operational work space.	-	Enclosed space.															
Info Stations	20	1	20	-	Computer stations and printers.	-	-															
Press Work Room or Area	170	1	170	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.														
Photo Work Room or Area	35	1	35	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.															
Photographers Check-in & Photo Bib Distribution	9	1	9	-	Area where photographers register and receive/return photo bibs.	-	-															
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.														
Lounge/Catering Prep	70	1	70	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-															
Toilets	1.5	6	9	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided														

TABLE TENNIS

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Press Conference Room	100	1	100	210	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I			F						R	IOC	
Seating Area	60	1	60	-	An area for accredited press.	-	Seats and standing room.	-												
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3.6 m table, 8 chairs & step and repeat backdrop.	-												
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-												
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-												
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-				F			I	I				
Mixed Zone	20 linear mtrs.	1	20 linear mtrs.	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I	I	F							R	IOC,IF	
Press Tribune	-	-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	-	Tabled seating is fitted out with telephones, television monitors, power and other press facilities (indoor venues). For outdoor venues, these services will exist in VMC.	-												
Press Tabletop Seating	Varies	Varies	Varies	-	-	Easy access from Venue Media Centre and direct access if possible to Mixed Zone.	<u>In an existing stadium or seating area:</u> 1 seat wide (folding chairs at 60 cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50 cm deep tabletop per position, each position = 2 stadium seats. <u>Temporary Stands:</u> 1 seat (folding chairs at 60 cm spacing) x 2 rows deep of proposed seating system (normally 150 cm-170 cm deep).	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.			I	F						R	IOC,IF	
Press Seating (non-tabled)	Varies	Varies	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.			I	F							R	IOC,IF
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided												
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-												
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	In close proximity to FOP.	Total number of expected photographers at medal sessions: 80. 60cm wide x 90cm deep per position, multi-row areas require 60cm riser per row.	Power, Wireless and data cabling needed to photo positions on FOP.	J		I	J							R	IOC, IF
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Normal seating areas.	See Venue Seating for quantities by sport.	Seating areas are generally not applicable for outdoor venues.	I		I	F							G	IOC
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-												

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Security																				
Security Command Centre	100	1	100	120	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.												
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-												
Security Work Area	15	1	15	-	An area for additional security agencies.	-	-	-												
CCTV Surveillance & Video Desk	12	1	12	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-												
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.												
Radio Dispatch & Monitoring	12	1	12	-	An area for the monitoring and control of security communication and the distribution/return of radios.	-	-	-												
Work Room	40	1	40	-	Open plan of work stations designated for security personnel.	-	-	-												
Secure Storage	8	1	8	-	An area for Security equipment storage.	-	Enclosed, secure space.	-												
Dog Cage(s)	4	Varies	Varies	8 (each)	Holding area for security dogs.	-	Area only for enclosed portable units (e.g. cages).	Dependent upon Host City/Country / Risk Assessment.												
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-												
Briefing and Break Area / Staging Area	75	1	75	-	Area for briefing staff before and after shifts.	-	Enclosed space.	Assumes tent.												
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.												
Vehicle Screening & Sanitisation Area	377	1	377	500	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.												
Vehicle Queue	100	1	100	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-												
Oversized Vehicle Queue	70	1	70	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-												
Vehicle Sanitisation & Wanding Areas	100	1	100	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.												
Oversized Vehicle (Truck & Bus) Sanitisation	70	-	70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-												
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.												
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Enclosed space for staging and break.	-												
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the venue secure perimeter and/or venue screening area for constituents.	-	Dependent upon spectator capacity and venue design.												
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-												
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-												
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-												
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.												

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Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the venue secure perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.										R	IOC
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the venue secure perimeter.	Enclosed space for screening/search area positions.. Net area for each screening position will accommodate the following: 4 Wanding Stations, OR 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue. Dependent upon spectator capacity and venue design.											
Athlete / Team	18	1-2	18-36	36-72	-	BOH.	-	-				F						R	IOC
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with Athlete and/or Olympic Family.				F						G	IOC
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with TO, ENG and/or Press.				F						P	
Broadcast	18	1-2	18-36	45-90	-	BOH.	-	If possible, direct access from outside venue perimeter into Broadcast Compound.											
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	BOH; located in close proximity to Venue Broadcast Compound.	-	-											
Press and Photographer	18	1-2	18-36	36-72	-	BOH; located in close proximity to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast).	If possible, direct access from outside venue perimeter into Venue Media Centre.				F	I						
Workforce (Staff/Volunteer/Contractor/Vendor)	18	2-3	36-54	90-135	-	BOH or possibly FOH.	-	-				J	J					P	
Spectator / Sponsors	18	Varies	Varies	54	-	FOH.	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-	I			F						P	
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.				F		I				P	
Exception Gate	Varies	Varies	Varies	-	Access gate for designated accredited personnel.	FOH; located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.				F						P	
X-ray of bags	36	Varies	Varies	72 (each)	Device for screening bags/equipment coming into the venue.	FOH and BOH.	Covered.	-				F	I					P	
Venue Perimeter Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	Dependent upon spectator capacity and venue design.											
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	1m to 3m width, sometimes used as a secondary service vehicle exit point.	-											
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m each, number varies per concourse design.	-											
Workforce (Staff/Volunteer/Contractor/Vendor)	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	Size dependant upon total workforce numbers.				I	F				G	P	
Sponsor Services																			
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.				I	F					P	

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Sport Operations																			
Competition Management	45	1	45	70	A work area for Sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located close to Athlete Area and FOP; may be co-located within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space.	I				F					P	
Competition Manager & Asst. Manager Desks	12	1	12	-	An area for the Manager and Assistant(s) Manager.	-	-	-											
Assigned Work Area	15	1	12	-	Open plan of work stations designated for Sport personnel.	-	-	-											
Hot Desks	6	1	6	-	Shared work stations.	-	-	-											
Work Area	12	1	12	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-											
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-											
Tournament Control	10	1	10	15	An area in the venue for the OCOG Competition management to view the field of play while competition is taking place.	Located in the back of house area with a view overlooking the FOP.	-	-											
Sport Information	20	1	20	25	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located in Athlete Area.	Enclosed space with waiting area and seating.	Includes: information boards, pigeon holes, Info & Help Desk, work area, info terminal stations & storage.	J		J							R	IF
Athlete Lounge	100	1	100	125	An area where athletes can relax at the venue while not training or competing.	Located in Athlete Area.	60-70 people.	Includes: seating area, lounge, Info & Help Desk, info terminal stations. A rest area may be required for athletes if the venue is located a long distance from the Olympic Village.	J		J							R	IF
Athlete Dressing, Locker, Shower, Toilet	20	6	120	160	Change-room facilities to accommodate athletes at the venue during competition and training.	Located in Athlete Area.	Enclosed space. Separate male and female facilities may be required.	Assumes container units or existing space.	J		J							R	IF
IF & Sport Meeting Room	40	1	40	45	Meeting facility at the venue for the International Federation and Competition Management.	Located in close proximity to the IF Area and Competition Management area.	Enclosed space.	Daily meeting area and for ITTF Executive Committee meetings and ITTF Umpires meeting. Shared meeting room area between IF & Sport to serve various meeting needs.	J		J							G	IF
Gluing Area	25	1	25	35	An area where players can repair and service their equipment during the Olympic Games.	Located in close proximity to the FOP.	Enclosed space. Proper ventilation essential for work being performed.												
Gluing Control	20	1	20	25	-	Located in close proximity to the FOP.	Enclosed space.	-											
Area for:	50	1	50	80	Area where pre-competition requirements are conducted.	Located adjacent to and/or in close proximity to entry of FOP.	Open space for each area.	All areas are always combined together.	J		J							R	IF
Rule 61	-	-	-	-	-	-	-	-											
Umpire Waiting & Control	-	-	-	-	-	-	-	-											
Draw Coaches Seats	-	-	-	-	-	-	-	-											
Ball Selection Area	-	-	-	-	-	-	-	-											
FOP Equipment Storage	70	1	70	110	Storage of equipment required for competition.	Located adjacent to FOP or within close proximity.	Enclosed space.	-	I			F	I					R	IF
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	Reference should be made to ITTF guidelines for all FOP technical requirements.	-											
Playing Surface Dimensions or Area	-	-	-	1200	Specific area required for conducting the sport competition.	-	Court area is 16m x 8m = 128 x 4 courts = 512 Generally, 4 tables for competition and as elimination occurs the number of tables is reduced for finals.	Gross Area: includes FOP (total playing area), surrounding playing space, space for players, coaches, match officials, and Camera/photo area. See ITTF Requirements for air conditioned (AC) temperature control; requires testing and approval by ITTF.	F			I		I	I			R	IF
Surface	-	-	-	-	Type of playing or competition surface required.	-	Floor colour should be dark red or dark blue.	All flooring must be approved by ITTF.	J			J	I					R	IF
Orientation	-	-	-	-	Direction of FOP.	-	No direct sunlight onto FOP area; may require windows to be covered to prevent direct sunlight.	-	J			J	I					R	IF
Sports Lighting - Technical	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											
Jury Platform	8 x 1.5	1	12	20	Area for Jury and TDs.	Located on FOP.	Elevated to have full view of FOP.	-	J			J	I		I	J		R	IF
Referees / Results Platform					Area for referees and information/results person.	Not required on FOP but in close proximity along FOP.	Elevated to have full view of FOP.	-											
Athlete Call Area	35	2	70	120	Area where athletes stage prior to their match.	Located immediately prior to entering the FOP area.	2 rooms required. 1st room w/ air conditioning; waiting area for athletes competing in the next match. 2nd room: an area for organising athletes prior to entering the FOP for their scheduled match (no air conditioning).	Recommend adding a TV w/ real-time results so athletes can view match currently being played.	I			F						R	IF

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Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	-	-	-											
Playing Surface Dimensions or Area	-	-	-	-	-	Located within close proximity.	Area for each table: 16m x 12m = 192 m ² 8 tables designated.	For Training, 16 tables minimum at competition venue or another designated training site location.	J			J			I	J		R	IF
Surface	-	-	-	-	-	-	Same as FOP requirements.	-	J		J	I			J			R	IF
Orientation	-	-	-	-	-	-	No direct sunlight onto FOP area; may require windows to be covered to prevent direct sunlight.	-	I		F	I						R	IF
Athlete / Team Seating	-	-	-	-	A designated seating area for athletes.	-	-	-											
Same Sport	-	Varies	-	-	-	-	-	-	J		I	J			J			R	IOC,IF
Different Sport	-	Varies	-	-	-	-	-	-	I		I	F			I			R	IOC
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	May be required for Sport Staff use. Quantity varies according to athlete numbers.				F						P	
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	Required if FOP is not located near Athlete Area.	Assumes temporary units. Quantity varies according to athlete numbers.				F						P	
International Federation																			
IF Area	80	1	80	90	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located in close proximity to accredited seating areas.	Enclosed space. Presidents office should have easy access to Olympic Family lounge.	Assumes container units or existing space.	I		I	F						R	IF
IF President's Office	15	1	15	-	-	-	-	-	I		I	F						R	IF
IF Secretary - General/Executive Director's Office	15	1	15	-	-	-	-	-	I		F							G	IF
Reception, Secretariat, Waiting & Work Area	30	1	30	-	-	-	-	-	I		F							G	IF
Results Staff / Info Area	20	1	20	-	-	-	-	-											
Jury Room	30	1	30	45	This space is utilised for the resolution of protests and appeals after competition.	-	-	-	I		I	F				I		R	IF
Umpires Lounge	50	1	50	60	An area to rest between matches.	Located in close proximity to FOP.	Enclosed space.	Assumes container units or existing space.	J		J							G	IF
Technical Delegates Office & Work Area	15	1	15	20	Office area for Technical Delegates.	In close proximity to FOP.	Enclosed space. 2 Technical Delegates.	-	I		I	F				I		R	IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I		J	J				J		R	IOC,IF
Sport Presentation																			
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.											
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-				F						P	
Announcer Position	3	1	3	-	-	-	-	-				F						P	
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space, consisting of work area, green room, entertainer staging and dressing and prop storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.				F						P	

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Technology Operations																			
Technology Help Desk	16	1	16	20	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support staff & manager.	-				F						P	
Venue Technology Operations (VTO)	25	1	25	32	OCOG Technology Operations area. Operational work space for entire Venue Technology team, including Partners & contractors.	Adjacent to or within Venue Operations Centre (VOC).	Medium security - lockable room. Air-conditioned as office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	-				F					G	P	
OCOG Venue Technology Work Area	-	1	-	-	Work space for Venue Technology Manager, Assistant Venue Technology Manager, Technology Workforce Manager and associated volunteer(s).	-	-	Work space size may be dependent upon workforce per shift.											
AV Contractor Work Area	-	1	-	-	Work space for AV contractors/Technicians.	-	-	Work space size may be dependent upon workforce per shift.											
IT Provider Work Area	-	1	-	-	Work space for IT workforce and "home base" for IT volunteers.	-	-	Work space size may be dependent upon workforce per shift.											
Reprographic Provider Work Area	-	1	-	-	Work space for reprographic contractors/technicians	-	-	Work space size may be dependent upon workforce per shift.											
Mobile Phone Provider Work Area	-	1	-	-	Workspace for mobile phone provider.	-	-	Work space size may be dependent upon workforce per shift. Charging area for Venue Operations workforce phones may be required.											
Wired Communications Provider Work Area	-	1	-	-	Work space for Wired Communications contractors/technicians.	-	-	Work space size may be dependent upon workforce per shift.											
Timing & Scoring/OVR Provider Work Area	-	1	-	-	Work space for OVR/Timing & Scoring contractors/technicians.	-	-	May not be required if adequate working space is allocated in OVR room.											
Radio Distribution Room (RDR)	15	1	15	18	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E and workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).	I			F						P	
Information Technology																			
Computer Equipment Room (CER)	20	1	20	25	Location for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.	I			F					G	P	
Data Local Area Network (LAN) Management Room & Store	25	1	25	32	LAN monitoring room & associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational staff & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces.				F					G	P	

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Telecommunication & Audio Visual																				
Telecomm. Equipment Room (TER) Primary	36	1	36	45	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	Raised flooring is preferable for cabling distribution, but not essential.		I			F						P	
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.		I			F						P	
Telecomm. Operations & Store	25	1	25	32	Operational space for Telecommunications technical staff and associated storage for spare parts.	Adjacent to TER.	As TER with adequate FF&E to support operational staff & storage.	If located adjacent to TER, power supply boards, UPS units & A/C services can be common for both spaces.		I			F						P	
Audio Control Positions																				
	-	-	-	-	-	-	-	-					F					G	P	
Venue	4	1	4	8	Area within Sport Production, location for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Production. Can be on FOP, in stands or in a booth with view to FOP.	High Security. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	Storage for country anthems.												
Press Conference	4	1	4	8	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), air-conditioned, waterproof. Work space & FF&E for operator.	PA system may also be used for Competition Draw if draw is held in Press Conference room.												
Warm-Up Area	0	0	0	-	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Within Warm-up area for Athletes.	Standard/mains power & FF&E.	-												
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-												
Workforce Break/Dining	2	Varies	Varies	-	Area within Staff Break/Training room where audio control equipment is installed to facilitate meetings/training of large numbers of staff.	Workforce break/dining areas.	Standard/mains power & FF&E.	-												
Video Board Control	0	0	0	-	Location of video control for video board or video projection system. Operations integral with those of Sport Production.	Ideally with Sport Production. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	-					F					G	P	
Wired Communications Control	2	1	2	4	Location of wired communications master control station and support technician. System essential to operations of both Sport Production and Results/FOP management.	Near to or within Sport Production is preferable. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location is located outdoors. Good cable access to FOP, OVR Room, Sport Production, Broadcast Graphics Room & Results Printing required. Workspace & FF&E for one technician, control equipment, spare parts and containers/boxes for equipment.	-					F					G	P	
Temporary PA equipment Room	2 min	1	2 min	4 min.	Temporary location for installation of PA active equipment (amplifiers etc) for venue PA system.	In existing PA equipment room, if applicable. May be located under venue seating/tribunes if existing room not available.	High Security. Fully redundant power (mains & standby generator) to equipment. Good cable access to speaker location and PA/Audio Control position required. Equipment installed in racks. Each rack set is 1000H x 600W x 600 D maximum.	Number of racks will depend on size of system deployed. Generally venues with large geographic area (outdoor) require larger installation and therefore more racks of amplifier equipment.					F						P	

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Timing, Scoring and Results Operations																			
Results Data Entry Position	-	-	-	-	Location(s) for event results and/or statistics data entry during competition.	As noted below.	High Security. Fully redundant power (mains & generator) with UPS to all results data entry equipment/workstations. Space & FF&E for all data entry personnel & results management staff.	Adequate weather (rain/sun) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
Field of Play - Statistics Tables	8	4	32	40	Areas/positions for results and/or statistics on the FOP.	Located at control table behind shooter line. Adjacent to Timing & Scoring.	-	May occur as a position on the FOP, or in a room with a view to the FOP.											
Field of Play - Technical/Jury Table	3	1	3	6	Area back of house where data entry is performed into the OVR/Results System.	Sport Specific, but can be in warm-up or call areas.	-	Generally occurs Back of House, in Sport location.											
Timing and Scoring Position	-	-	-	-	Location(s) for event timing & scoring personnel & equipment during competition.	Sport Specific. However, all locations must have view to FOP	High Security Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards, ball speed guns & OVR room. Space & FF&E for operators and equipment. Adequate weather (rain/sun) protection for equipment/workstations to be provided.	-	I	I	I	F						R	IF, Swatch
Field of Play (FOP)	8	8	64	80	Areas/positions for statistics calling & data entry into OVR system.	Located at each TT on FOP with sport statisticians. Located with event Scoring.	Cable pathway to Statistics Table.	Space requirements based on 4 x tables used in competition.											
Control Room	1.5/pp	1	1.5/pp	3/pp	Area/position for results data entry & Event Control operations.	Located at Technical Table on FOP with sport results & sport officials.	Cable pathway to Technical Table & Sport Specific Scoreboards.	-											
On Venue Results (OVR)	-	-	-	-	Location is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	Easy access to FOP critical for technical and results staff.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Space & FF&E required for high density of computer workstations, racks for servers and working space for technicians, operators and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or venues where two sports occur concurrently will require more space for additional OVR equipment.	I	F								P	
OVR Provider Work Area	20	1	20	25	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO/CIS/PRD etc).	Ideally adjacent to IT provider work area.	-	-											
IT Provider Work Area	20	1	20	25	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-											
Scoreboard Control	-	-	-	-	Location of scoreboard control operations. Operations integral with those of Sport Production, data provided from OVR System. Space for both Control and Interface workstations & 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.	I	F							G	P	
Scoreboard Control	2	1	2	4	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator & workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-											
Scoreboard Interface	2	1	2	4	Area for interface equipment (PC workstations) linking OVR system & Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-											

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Results Printing (PRD)	80	1	80	100	Location for hard copy results production & distribution. Location of high intensity work involving many staff preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area & position for the Print Distribution Workstation (IDS interface) equipment and operator.	Near/adjacent to Press Workroom, access to Press Tribunes, Broadcast Commentary Positions, Sport Information Desk, Doping & Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specification. Space & FF&E required for equipment and operational staff as well as space for 1 x pallet of paper to support print/copy operations.	-	I	I	I	F						R	IF, Swatch
TV Graphics Interface	3	1	3	6	Location where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operators & good cable access to OVR room.	-				I		F			G	P	
Technology Storage																			
Technology General Storage	15	1	15	18	Location for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F					G	P	
IT Bulk Storage	30	1	30	38	Storage area for all spare IT equipment & associated boxes/containers.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to IT provider at all times.				F					G	P	
Reprographic Primary Storage Area	12	1	12	15	Primary storage/technical area in-venue for reprographic provider. Storage for spare parts, additional devices and consumables serving primarily Results Printing Operations.	In venue location adjacent to, or within Results Printing Room.	High Security - lockable. Standard office environment with standard power. Workspace & FF&E for one technician.	-	I		F						G	P	
Reprographic Bulk Storage Area	15	1	15	18	Storage area for bulk paper allocated to venue (multiple pallets).	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of paper required to support venue operations.				F					G	P	
Timing and Scoring Workshop	10	1	10	13	In venue storage & workshop for timing equipment, spare parts & small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.	-	I		F						G	P	
Timing & Scoring Bulk Store	50	1	50	60	Storage area for large crates & containers used for scoreboards and bulk equipment. Must be accessible to OVR provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of Timing & Scoring equipment deployed to venue. May be combined with Timing & Scoring Workshop if location & size of space meet requirements for venue.	I		F						G	P	
Audio Visual Bulk Store	15	1	15	18	Storage area for large crates & containers used for video boards, PA equipment & TV boxes. Must be accessible to Video/Public address provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of audio/video equipment deployed to venue.				F					G	P	
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closet. CCFs are to be installed in locations that allow for easy access for service technicians and which allow for easy cable access both from TER room and to user device locations.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Work Room.	High Security - lockable and weatherproof. May require fan or dedicated A/C depending on room location and/or configuration. Fully redundant power (mains and generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.	I		F							P	
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of power from data/voice and audio-visual cabling.	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in an manner which allows for easy access and repair/replacement. Legacy installations are to be installed as permanent while temporary (overlay) should be installed using methods which are easily installed and removed minimising potential damage to existing venue.				F						P	
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.	-	-	-											
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.	-	-	-											
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.	-	-	-											

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CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	-											
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	-											
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-											
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-											
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-											
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-											
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-											
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing and Scoring/OVR contractor.	I			F							P
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.											
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F							P
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the videoboard. Required for outdoor venues where the videoboard cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each videoboard.											
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Production on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F						G	P
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to/from audio/PA amplification system and/or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend PA speakers from venue ceiling structure.	-	-	-											
Mobile Phone Infrastructure (antenna)	-	Varies	-	-	Infrastructure required to support installation of additional radio antenna & mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to/from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.	I			F						G	P

TABLE TENNIS

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Ticketing																			
Ticket Box Office	30	1	30	75	An area at the venue where Olympic tickets are sold.	Adjacent to the secure perimeter; near the spectator entry point of the venue	Gross area includes internal & external queue.	Assumes container unit with disabled access to internal and external service window. Dependant upon venue layout and footprint, spectator access point locations.										P	
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-					F						
Internal Ticket Sales Window(s)	10	1	10	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s)	10	1	10	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	18	1	18	36	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.					F					P	
Driver Staging	55	1	55	100	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.					F					P	
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside venue secure perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	12	1	12	-	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-					F					P	
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from Host City, based on vehicle/bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J							P	
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J							P	
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F						P	
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.				F			I			G	IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.				F						G	IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.	I			F						G	IOC
Spectator and Staff Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				F						P	
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.	I			F						P	
Accessible	-	-	-	-	-	-	-	Part of Spectator total.				F						P	
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Surface areas paved or gravel.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have drop-off in close proximity to accredited entry point and then driver will park.			I	F						P	
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.				F			I			P	
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.				F			I			P	
Press and Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-			J	J						P	
Security	4	-	-	32	-	Allocated an operational amount for inside the venue perimeter.	-	Includes vehicle circulation.				F		I				P	
Emergency Services	4	-	-	50	-	Generally located inside the Secure Venue Perimeter.	-	Includes vehicle circulation.				F		I				P	

TABLE TENNIS

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Venue Development																			
Site Management Compound	-	-	503	650	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Dependent upon venue footprint, extent of temporary works and number of contractors.										P	
Site Management Area	60	1	60	-	-	-	Enclosed space.	-					F						
Site Manager & Assistant Site Manager(s) Work Area	12	1	12	-	Work and meeting area for the Site Manager and Assistant Site Manager.	-	-	-											
Site Administration Desk & Work Area	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-	-											
Response Team & Vendor Staging	24	1	24	-	On-site permanent and temporary facilities for specialty staff and general labor crew to be on-call.	-	-	-											
Secure Storage - Site Management	12	1	12	-	Area for storage.	-	-	-											
Construction Management Area	60	1	60	-	Meeting space for the facilities construction management team and work crew.	-	Enclosed space. Area for office, staging and a secure storage area.	Assumes container units or existing space. Contractor usually installs container units at their own cost.											
Sign/Look Staging, Work Space/Secure Storage	50	1	50	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	-	Assumes container unit or existing space.											
Material Warehouse/Construction Work Space	80	1	80	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	-	Enclosed space.	Assumes tent or canopy with 2 side walls. Area for carpentry, painting and general construction. Storage for non-weather proof materials.											
Vendor Secure Storage	60	1	60	-	Area for containers, usually provided by the various temporary construction sub-contractors.	-	Enclosed space.	Assumes container units or existing space.											
Materials Staging Area	30	1	30	-	Area for the off-loading and loading of bulk construction materials.	-	Area only.	-											
Exterior Storage Area	30	1	30	-	Outdoor storage of material and products.	-	Area only.	Weatherproof area for large and bulk materials.											
Vehicle Staging	90	1	90	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	-	Area only.	Service, Repair & Specialty vehicles.											
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.	I			F						P	
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.	-	I			F						P	
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.	I			F						P	
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.											
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-	-											

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Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Venue Management																			
Venue Operations Centre (VOC)	60	1	60	90	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Dependent upon venue capacity and venue layout.										P	
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-					F						
Assigned Desks	20	1	20	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Space and Storage	18	1	18	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	40	1	40	50	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.					F					P	
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	24	1	24	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	8-10 people.											
Storage	8	1	-	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	-	-	-	-	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre.	Enclosed space.	Assumes existing space or tent. Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.					F					P	
Workforce																			
Workforce Area	150	1	150	180	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.					F					P	
Check-In Area	96	1	96	-	Area to log-in venue staff and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Area	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	335	1	335	400	The space where workforce meals are served and where workforce can break during their shift.	A location that will provide easy access to all workforce for breaks and meals; will vary according to venue layout/size.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon venue workforce numbers.					F					P	
END OF DOCUMENT																			

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation					
Accreditation																								
Venue Accreditation Office	50	1	50	125	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.											P	-				
Day Pass Issue & Problem Resolution Desk	15	1	15	-																				
Work Area	15	1	15	-																				
Manager Desk or Office & Storage	12	1	12	-																				
Waiting Area	8	1	8	-																				
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	-	Enclosed space. Required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.					F						P	-				
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Broadcast																								
Broadcast Compound	-	1	-	3500	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements.																
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Gross area includes snow removal access. Assumes container unit.																
Broadcast Manager Office	12	1	12	-		-	-	-	-															
Work Room, Assigned and Unassigned Desks	48	1	48	-		-	-	-	-															
Technical Operations Centre	40	1	40	100	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Broadcast Catering	140	1	140	180	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	-																
Kitchen and Prep	20	1	20	-		-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.															
Buffet Line and Dining	120	1	120	-		-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.															
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements.																
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-																
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters.																
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-																
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.																
Toilets	1.5	8	12	36	Toilet units designated for broadcast personnel.	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Commentator Control Room (CCR)	50	1	50	65	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in close proximity to commentator position area.	Enclosed space with incoming television cable.	Assumes existing space or container unit.																
Broadcast Information Office (BIO)	20	1	20	25	Space for broadcast management and team meetings.	Located near commentator positions and CCR	Enclosed space.	Assumes existing space or container unit.																
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-																
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J													
Mixed Zone	20	1	20	170	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Adjacent to the FOP.	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I	I	J													
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in seating areas with view to FOP and covered when possible.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Outdoor commentator positions should have the option of cover for protection from various weather conditions (e.g. sun, rain). Space for commentator positions may vary according to actual venue/permanent seating setup.																

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	Located at the rear of the commentator grouping so as not to disrupt the FOP view of other commentator positions.	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	A com-cam position equals 2 adjacent commentator positions.			I	J			J	I			
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions.	1 position = uses 1 seat in existing seating bowls.	-			I	J			J	I		R	IOC
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval. Space for camera positions may vary according to actual venue/permanent seating setup.	J		I	J			J	J		R	IOC
Camera Position - Other	4	20	80	180	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	Space for camera positions may vary according to actual venue/permanent seating setup.	I		I	J			J	I		R	IOC
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-					J	I	J			G	IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	See also Technology requirements.					J	I	J			G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in Back of House areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.					J	I	J			G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography	J			J	I	J	I			R	IOC
Catering																			
Catering Compound	565	1	565	850	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity. Gross area includes snow removal access.		I		F						P	
Work Areas - Catering Management	28	1	28	-		-	Enclosed space.	Assumes existing space or container.											
Organising Committee Catering Manager	-	-	-	-		Located in Venue Operations Centre.	See Venue Management - VOC.	-											
Catering Contractor	16	1	16	-		-	-	-											
Beverage Contractor	12	1	12	-	Operational work space(s).	-	-	-											
Dry, Cold and Ice Storage	38	6	228	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.											
Vehicle Staging	90	1	90	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-											
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-											
Kitchen and Preparation Area	80	1	80	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.											
Uncovered Storage	75	1	75	-	Outdoor storage of material and products.	-	Area only.	-											
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilets should be provided.											
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit.	-											
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container's). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity and level of catering activity.		I		F						P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	See Look for details.	-		I		F						P	

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Ceremonies																				
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-											P	
Ceremonies Staging	36	1	36	45	For the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule; to coordinate location of podium, procession, and recession route, and location of flagpoles.	Adjacent to or close to FOP.	Consists of coordinator work space with area for anthem storage, secure storage, preparation and dressing area; see below for additional details.	Assumes existing space or container.											P	
Manager Desk	6	1	6	-	Workspace for Manager.	-	-	-												
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenters, Medal/Flower staging, Secure medal and flag storage	22	1	22	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format. Medals storage is not required for those venues where the medal ceremony will take place at another location.												
Presenter Preparation and Dressing	4	2	8	-	A dressing and preparation area for Presenters.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-												
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	Close to FOP.	Limited use, may be shared with other space. See Sport Presentation.	-		I		F							P	
Awards Podium Storage	12	1	12	15	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	-			I	F							P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.	I		J	J				J	G	R	IOC	
Cleaning and Waste																				
Cleaning & Waste Compound	252	1	252	350	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependant upon venue capacity.					F						P	
Vehicle Staging	72	1	72	-	Parking area for collection vehicles which generally remain inside the venue.	-	Area only.	-												
Sorting Area	72	1	72	-	Area for sorting waste.	-	Area only.	-												
Waste & Recycle Containers	15	4	60	-	Area in front of waste and recycle bins where material is separated for containment.	-	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).												
Compactor Unit	25	Varies	Varies	-		-	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.												
Equipment Supply & Storage	15	2	30	-	Space for cleaning equipment and paper product.	-	Enclosed space.	Assumes container unit.												
Contractor Office	18	1	18	-	Space for management and workforce staging.	-	Enclosed space.	-												
Doping Control																				
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	-	J		J	J							R	IOC
Waiting Area/Reception	26	1	26	30	Area where athletes check-in and wait prior to testing.	-	-	-												
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Blood Processing Room(s)	15	Varies	Varies	20 (each)	Area where athlete blood samples are provided and sealed	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Office / Storage	12	1	12	15	Work and storage space for Doping Manager.	-	Enclosed space. Secure storage.	-												
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-	I		J	J							R	IOC

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Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.					F					P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of workforce pre-shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large group.	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.					F					P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.					F					P	
Information Desk	-	-	-	-	-	-	-	-											
Lost and Found	-	-	-	-	A holding area for items found in the venue.	-	-	-											
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spectators.	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	-	-	Will depend on level of service at venue.					F					P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes; located between screening/search area and spectator plaza.	Total number generally 50% of security screening positions.					F					P	
Stroller Storage	Varies	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	In close proximity to seating area.	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.					F					P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.					F					P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators					F					P	
Spectator Shade and Shelter	Varies	Varies	Varies	72 (each)	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and spectator service amenities.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.					F					P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-					F					P	
Spectator Toilets	1.5	Varies	Varies	5 (each) 6 (per 20 toilets)	Toilet units designated for spectators.	Located in FOH, close proximity to seating and spectator amenities.	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.					F					P	
Hand Wash Stations	1	Varies	Varies		A chemical unit used in the absence of potable water.	Located in FOH, close proximity to seating and spectator amenities.	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.					F					P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Finance																				
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I			F						P	
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Generally located inside venue perimeter and outside venue perimeter.	Area only.	Dependant upon venue capacity.												
Language Services																				
Work Area / Desk	20	1	20	25	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre.	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-			J	J			I				G	IOC
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference needs.	-			J	J			I				G	IOC
Logistics																				
Logistics Compound	-	1	Varies	650	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access. Secondary Compound Area - an additional compound area may be necessary for staging or storage of equipment that is in close proximity to FOP and/or the finish area.											P	
Logistics Centre	60	1	60	-	-	-	Enclosed space.	Assumes container units or tent.												
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-												
Team Staging/Work Area	33	1	33	-	Space for staging and a work area.	-	-	-												
Secure Storage & Equipment Sign-out	15	1	15	-	Area for storage.	-	Storage for tools.	-												
Warehouse Storage	90	1	90	-	Storage area for furniture, fixtures, and equipment (FF&E).	-	Enclosed space.	Assumes tent												
Storage Yard	75	1	75	-	Outside storage area within compound.	-	Area only.	-												
Vehicle Staging	100	1	100	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-												
Fuel Tank(s)	9	Varies	Varies	25 (each)	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.												
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.												
Material Transfer Area (MTA)	-	1	-	575	Generally for deliveries to the venue that may take place after hours or not within the logistics delivery window period.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.											P	
X-Ray Area	36	1	36	72	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.												

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Look of the Games																			
Work Area and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.					F					P	
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J					J		R	IOC
National Olympic Committee (NOC) Flags	Varies	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events) and competition format.	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.			J	J				J		R	IOC
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and back of locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J				J	G	R,P	IOC, IF
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals.	-											
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH).	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.		I	J	J				J	G	R	IOC, L
Backdrop - Press Conference Room	2.2 x 6	-	-	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F		I	I				
Medical Services																			
Athlete Medical	65	1	65	100	An area where Medical provides services to athletes competing at the venue.	Located in Back of House within the accredited athlete area.	Enclosed space.	Assumes container or existing space.	J	J	J							R	IF
Reception & Waiting	12	1	12	-	Area where athletes check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Physiotherapy Area(s)	8	2	16	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J							S	IF
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.											
Spectator Medical	50	1	50	100	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed space. 1 per 20,000 spectators.	Assumes container unit or existing space.			I	F	I					P	
Reception & Waiting	12	1	12	-	Area where spectators check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	12	1	12	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Triage Station	36	1	38	72	Additional space to treat minor medical needs of spectators.	Located in the Front of House.	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.			I	F	I					P	
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.				F	I					P	
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Area only. Paved, graveled or grass area with fence, barricade or rope enclosure.	-			F	I						P	

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Merchandise																						
Office, Cash Room & Work Area	12	1	12	15		-	Enclosed space with secure entry.	Assumes container unit or existing space.							F						P	
Storage	15	2	30	35	An area to manage the retailing of all Olympic merchandise inside the venue.	-	-	Assumes storage containers or existing space. Units provided by vendor. Quantity and location decided by vendor and OCOG.						F							P	
Program Sales Stands/Booths	1	1	1	2		-	Area only.							F							P	
Merchandise Points of Sale (POS)	6	Varies	Varies	18 (each)	Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.	Gross area is per each P.O.S. and includes service area and queue.				I		F							P	
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.					I	J	J					G	R	IOC	
Olympic Family Services																						
Olympic Family Lounge	240	1	240	500	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes tent.	I			I		F					I	G	G	IOC
Welcome Desk and Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-															
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.															
Staff/Volunteer Room and Storage	12	1	12	-	On-call waiting area for Protocol staff and equipment storage.	-	-															
Dining and Lounge	140	1	140	-	Area for dining and lounge.	-	-															
Preparation/Buffer set-up/Beverage Area	70	1	70	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Staff/Volunteer, Athlete, Media)															
Toilets	30	1	30	60	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	4 female, 4 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided						F							P	
Protocol flags	-	-	-	-	-	-	See Look of the Games.						J	J							R	IOC
Press Operations																						
Venue Media Centre (VMC)	350	1	350	550	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Confer	Close proximity to Press Tribune, Press Conference room, and Mixed Zone area.	Enclosed space for 90 press and 25 photographers.	Assumes tent. This is assuming that Taekwondo is being held in one dedicated venue.						F							R	IOC
Reception & Information Desk	18	1	18	-	Welcome desk at the entrance, for information distribution.	-	-															
Storage	4	1	4	-	Equipment storage.	-	-															
Press Manager Office	12	1	12	-	Operational work space.	-	-															
Photo Manager Office	12	1	12	-	Operational work space.	-	-															
Olympic News Service (ONS) Work Room or Area	25	1	25	-	Operational work space.	-	Enclosed space.															
Info Stations	20	1	20	-	Computer stations and printers.	-	-															
Press Work Room or Area	150	1	150	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.														
Photo Work Room or Area	35	1	35	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.															
Photographers Check-in & Photo Bib Distribution	9	1	9	-	Area where photographers register and receive/return photo bibs.	-	-															
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.														
Lounge/Catering Prep	50	1	50	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-															
Toilets	1.5	6	9	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided														

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	I	J	F	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Press Conference Room	90	1	90	200	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I					F						R	IOC	
Seating Area	50	1	50	-	An area for accredited press.	-	Seats and standing room.	-														
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3.6 m table, 8 chairs & step and repeat backdrop.	-														
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-														
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-														
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-						F			I	I				
Mixed Zone	20 linear mtrs.	1	20 linear mtrs.	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I			I		F						R	IOC,IF	
Press Tribune	-	-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	-	Tabled seating is fitted out with telephones, television monitors, power and other press facilities (indoor venues). For outdoor venues, these services will exist in VMC.	-														
Press Tabletop Seating	Varies	Varies	Varies	-	-	Easy access from Venue Media Centre and direct access if possible to Mixed Zone.	In an existing stadium or seating area: 1 seat wide (folding chairs at 60 cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50 cm deep tabletop per position, each position = 2 stadium seats. Temporary Stands: 1 seat (folding chairs at 60 cm spacing) x 2 rows deep of proposed seating system (normally 150 cm-170 cm deep).	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.						I	F					R	IOC,IF	
Press Seating (non-tabled)	Varies	Varies	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.						I	F					R	IOC,IF	
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided														
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-														
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	In close proximity to FOP.	60cm wide x 90cm deep per position, multi-row areas require 60cm riser per rows.	Power, Wireless and data cabling needed to photo positions on FOP.	J			I	J							R	IOC, IF	
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Normal seating areas.	See Venue Seating for quantities by sport.	Seating areas are generally not applicable for outdoor venues.	I			I	F							G	IOC	
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-														

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Security																				
Security Command Centre	120	1	120	145	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.											P	
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-												
Security Work Area	15	1	15	-	An area for additional security agencies.	-	-	-												
CCTV Surveillance & Video Desk	15	1	15	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-												
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.												
Radio Dispatch & Monitoring	15	1	15	-	An area for the monitoring and control of security communication and the distribution/return of radios.	-	-	-												
Work Room	50	1	50	-	Open plan of work stations designated for security personnel.	-	-	-												
Secure Storage	10	1	10	-	An area for Security equipment storage.	-	Enclosed, secure space.	-												
Dog Cage(s)	4	Varies	Varies	8 (each)	Holding area for security dogs.	-	Area only for enclosed portable units (e.g. cages).	Dependent upon Host City/Country / Risk Assessment.							F					
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-												P
Briefing and Break Area / Staging Area	140	1	140	170	Area for briefing staff before and after shifts.	-	Enclosed space.	Assumes tent.					J	J						
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.					J	J						P
Vehicle Screening & Sanitisation Area	569	1	569	800	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.							I	F				P
Vehicle Queue	175	1	175	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-												
Oversized Vehicle Queue	140		140	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-												
Vehicle Sanitisation & Wanding Areas	150		75	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.												
Oversized Vehicle (Truck & Bus) Sanitisation	70		70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-												
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.												
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Enclosed space for staging and break.	-												
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the venue secure perimeter and/or venue screening area for constituents.	-	Dependent upon spectator capacity and venue design.									F		G	P
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-												
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-	I		F									P
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-	I		F									P
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.	I	I	F									P

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the venue secure perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.										R	IOC
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the venue secure perimeter.	Enclosed space for screening/search area positions.. Net area for each screening position will accommodate the following: 4 Wanding Stations, OR 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue. Dependent upon spectator capacity and venue design.											
Athlete / Team	18	1-2	18-36	36-72	-	BOH.	-	-				F						R	IOC
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with Athlete and/or Olympic Family.				F						G	IOC
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with TO, ENG and/or Press.				F						P	
Broadcast	18	1-2	18-36	45-90	-	BOH.	-	If possible, direct access from outside venue perimeter into Broadcast Compound.											
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	BOH; located in close proximity to Venue Broadcast Compound.	-	-											
Press and Photographer	18	1-2	18-36	36-72	-	BOH; located in close proximity to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast).	If possible, direct access from outside venue perimeter into Venue Media Centre.				F	I						
Workforce (Staff/Volunteer/Contractor/Vendor)	18	2-3	36-54	90-135	-	BOH or possibly FOH.	-	-				J	J					P	
Spectator / Sponsors	18	Varies	Varies	54	-	FOH.	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-	I			F							P
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.				F		I					P
Exception Gate	Varies	Varies	Varies	-	Access gate for designated accredited personnel.	FOH; located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.				F							P
X-ray of bags	36	Varies	Varies	72 (each)	Device for screening bags/equipment coming into the venue.	FOH and BOH.	Covered.	-				F	I						P
Venue Perimeter Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	Dependent upon spectator capacity and venue design.											
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	1m to 3m width, sometimes used as a secondary service vehicle exit point.	-											
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m each, number varies per concourse design.	-											
Workforce (Staff/Volunteer/Contractor/Vendor)	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	Size dependant upon total workforce numbers.				I	F				G	P	
Sponsor Services																			
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.				I	F						P

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Sport Operations																			
Competition Management	75	1	75	80	A work area for Sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located close to Athlete Area and FOP; may be co-located within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space.	I			F						P	
Competition Manager & Asst. Manager Desks	12	1	12	-	An area for the Manager and Assistant(s) Manager.	-	-	-											
Assigned Work Area	24	1	24	-	Open plan of work stations designated for Sport personnel.	-	-	-											
Hot Desks	15	1	15	-	Shared work stations.	-	-	-											
Work Area	24	1	24	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-											
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-											
Sport Information	16	1	16	24	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located in Athlete Area.	Enclosed space with a waiting area and seating.	Includes: information boards, pigeon holes, Info & Help Desk, work area, info terminal stations & storage.	J			J						R	IF
Athlete Lounge	100	1	100	140	An area where athletes can relax at the venue while not training or competing.	Located in Athlete Area.	-	Includes: seating area, lounge, Info & Help Desk, info terminal stations.	J			J						R	IF
Athlete Dressing, Locker, Shower, Toilet	70	2	140	170	Change-room facilities to accommodate athletes at the venue during competition and training.	Located in Athlete Area.	Enclosed space. Separate male and female facilities required.	Assumes container units or existing space.	J			J						R	IF
IF & Sport Meeting Room	30	1	30	45	Meeting facility at the venue for the International Federation and Competition Management.	Located in close proximity to the IF Area and Competition Management area.	Enclosed space.	Shared meeting room area between IF & Sport to serve various meeting needs. Large meeting area requirements can use the VOC Multi-purpose meeting room - See Venue Management.	J			J						G	IF
Sport Equipment Storage	32	1	32	42	Storage for athlete/team sport equipment.	Located adjacent to FOP or within close proximity.	-	Assumes container units or existing space.	J			J	I					R	IF
FOP Equipment & Maintenance Storage	32	1	32	42	Storage of FOP equipment and maintenance equipment.	Adjacent to sport equipment storage.	-												
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	Reference should be made to WTF guidelines for all FOP technical requirements.	-											
Playing Surface Dimensions or Area	144	1	144	-	-	-	Contest mat is 12m x 12m. Competition Platform = 50-60cm height and a 30 degree gradient.	-	F			I						R	IF
Total Required Area Dimensions or Area	400	1	400	-	Area includes FOP (contest area), safety area/safety zone, competition platform/boundary line.	-	Area is 20m x 20m, including 30 degree slope.	-	F			I						R	IF
Vertical Height Requirement	20	1	20	-	-	-	Minimum height over the FOP.	-	F			I	I					R	IF
Surface	-	-	-	-	-	-	Court material covered with an elastic mat and carpet.	-	J			J	I					R	IF
Sports Lighting - Technical	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

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Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	In close proximity to athlete entry to FOP.	Reference should be made to WTF guidelines for all warm-up technical requirements.	-											
Playing Surface Dimensions or Area	144	2	288	-	-	-	4 mats for warm-up.	-	J		J			I	J			R	IF
Surface	-	-	-	-	-	-	Elastic mat.	-	J		J	I			J			R	IF
Athlete Staging	-	-	-	-	-	-	-	-	I		F							R	IF
Athlete / Team Seating	-	-	-	-	A designated seating area for athletes.	-	-	-	J		J				J			R	IOC,IF
Same Sport	-	Varies	-	-	-	-	-	-	J		J				I			R	IOC,IF
Different Sport	-	Varies	-	-	-	-	-	-	I		I	F			I			R	IOC
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	May be required for Sport Staff use. Quantity varies according to athlete numbers.				F						P	
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	Required if FOP is not located near Athlete Area.	Assumes temporary units. Quantity varies according to athlete numbers.				F						P	
International Federation																			
IF Area	60	1	60	65	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located in close proximity to accredited seating areas.	Enclosed space.	Assumes container units or existing space.	I		I	F						R	IF
IF President's Office	15	1	15	-	-	-	-	-	I		I	F						R	IF
IF Secretary - General/Executive Director's Office	15	1	15	-	-	-	-	-	I		F							G	IF
Reception, Secretariat, Waiting & Work Area	30	1	30	-	-	-	-	-	I		F							G	IF
Arbitration Board Room	20	1	20	25	Meeting area for arbitration board.	-	Enclosed space.	Assumes container units or existing space.	I		F							R	IF
Referees Room	40	1	40	45	Meeting area for referees.	-	Enclosed space.	-											
Lounge - International Technical Officials	40	1	40	45	A rest area for officials.	-	24 judges and 20 officials.	Assumes container units or existing space.	J		J							G	IF
Officials Locker Room, Shower, Toilet	45	2	90	120	A change area for officials.	-	Separate male and female facilities.	-	I		F							R	IF
Technical Delegates Office & Work Area	15	1	15	20	Office area for Technical Delegates.	-	Enclosed space. 2 Technical Delegates.	-											
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I		J	J			J			R	IOC,IF
Sport Presentation																			
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.											
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-			F							P	
Announcer Position	3	1	3	-	-	-	-	-			F							P	
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space, consisting of work area, green room, entertainer staging and dressing and prop storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.				F						P	

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Technology Operations																			
Technology Help Desk	15	1	15	18	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support staff & manager.	-				F						P	
Venue Technology Operations (VTO)	25	1	25	32	OCOG Technology Operations area. Operational work space for entire Venue Technology team, including Partners & contractors.	Adjacent to or within Venue Operations Centre (VOC).	Medium security - lockable room. Air-conditioned as office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	-				F					G	P	
OCOG Venue Technology Work Area	-	1	-	-	Work space for Venue Technology Manager, Assistant Venue Technology Manager, Technology Workforce Manager and associated volunteer(s).	-	-	Work space size may be dependent upon workforce per shift.											
AV Contractor Work Area	-	1	-	-	Work space for AV contractors/Technicians.	-	-	Work space size may be dependent upon workforce per shift.											
IT Provider Work Area	-	1	-	-	Work space for IT workforce and "home base" for IT volunteers.	-	-	Work space size may be dependent upon workforce per shift.											
Reprographic Provider Work Area	-	1	-	-	Work space for reprographic contractors/technicians	-	-	Work space size may be dependent upon workforce per shift.											
Mobile Phone Provider Work Area	-	1	-	-	Workspace for mobile phone provider.	-	-	Work space size may be dependent upon workforce per shift. Charging area for Venue Operations workforce phones may be required.											
Wired Communications Provider Work Area	-	1	-	-	Work space for Wired Communications contractors/technicians.	-	-	Work space size may be dependent upon workforce per shift.											
Timing & Scoring/OVR Provider Work Area	-	1	-	-	Work space for OVR/Timing & Scoring contractors/technicians.	-	-	May not be required if adequate working space is allocated in OVR room.											
Radio Distribution Room (RDR)	15	1	15	18	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E and workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).	I			F						P	
Information Technology																			
Computer Equipment Room (CER)	20	1	20	25	Location for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.	I			F					G	P	
Data Local Area Network (LAN) Management Room & Store	25	1	25	32	LAN monitoring room & associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational staff & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces.				F					G	P	

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Telecommunication & Audio Visual																				
Telecomm. Equipment Room (TER) Primary	36	1	36	45	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	Raised flooring is preferable for cabling distribution, but not essential.		I		F							P	
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.		I		F							P	
Telecomm. Operations & Store	25	1	25	32	Operational space for Telecommunications technical staff and associated storage for spare parts.	Adjacent to TER.	As TER with adequate FF&E to support operational staff & storage.	If located adjacent to TER, power supply boards, UPS units & A/C services can be common for both spaces.		I		F							P	
Audio Control Positions																				
	-	-	-	-	-	-	-	-				F						G	P	
Venue	4	1	4	8	Area within Sport Production, location for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Production. Can be on FOP, in stands or in a booth with view to FOP.	High Security. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	Storage for country anthems.												
Press Conference	4	1	4	8	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), air-conditioned, waterproof. Work space & FF&E for operator.	PA system may also be used for Competition Draw if draw is held in Press Conference room.												
Warm-Up Area	2	1	2	4	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Within Warm-up area for Athletes.	Standard/mains power & FF&E.	-												
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-												
Workforce Break/Dining	2	Varies	Varies	-	Area within Staff Break/Training room where audio control equipment is installed to facilitate meetings/training of large numbers of staff.	Workforce break/dining areas.	Standard/mains power & FF&E.	-												
Video Board Control	4	1	4	8	Location of video control for video board or video projection system. Operations integral with those of Sport Production.	Ideally with Sport Production. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	-				F						G	P	
Wired Communications Control	2	1	2	4	Location of wired communications master control station and support technician. System essential to operations of both Sport Production and Results/FOP management.	Near to or within Sport Production is preferable. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location is located outdoors. Good cable access to FOP, OVR Room, Sport Production, Broadcast Graphics Room & Results Printing required. Workspace & FF&E for one technician, control equipment, spare parts and containers/boxes for equipment.	-				F						G	P	
Temporary PA equipment Room	2 min	1	2 min	4 min.	Temporary location for installation of PA active equipment (amplifiers etc) for venue PA system.	In existing PA equipment room, if applicable. May be located under venue seating/tribunes if existing room not available.	High Security. Fully redundant power (mains & standby generator) to equipment. Good cable access to speaker location and PA/Audio Control position required. Equipment installed in racks. Each rack set is 1000H x 600W x 600 D maximum.	Number of racks will depend on size of system deployed. Generally venues with large geographic area (outdoor) require larger installation and therefore more racks of amplifier equipment.					F						P	

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Timing, Scoring and Results Operations																			
Results Data Entry Position	-	-	-	-	Location(s) for event results and/or statistics data entry during competition.	As noted below.	High Security. Fully redundant power (mains & generator) with UPS to all results data entry equipment/workstations. Space & FF&E for all data entry personnel & results management staff.	Adequate weather (rain/sun) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
Timing and Scoring Position	-	-	-	-	Location(s) for event timing & scoring personnel & equipment during competition.	Sport Specific. However, all locations must have view to FOP	High Security. Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards & OVR room. Space & FF&E for operators and equipment. Adequate weather (rain/sun) protection for equipment/workstations to be provided. Information based on 1 x Mat only for competition.	-	I	I	I	F						R	IF, Swatch
Field of Play Control Table	3	1	3	6	Location for event scoring & timing operations, equipment & personnel.	Position adjacent to Mat.	Cable pathway to sport specific scoreboards & Technical Table.	-											
Field of Play - Technical/Jury Table	3	1	3	6	Location for Event management operations.	Position located on FOP with sport officials.	Cable pathway to Technical Table & sport specific scoreboards.	-											
On Venue Results (OVR)	-	-	-	-	Location is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	Easy access to FOP critical for technical and results staff.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Space & FF&E required for high density of computer workstations, racks for servers and working space for technicians, operators and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or venues where two sports occur concurrently will require more space for additional OVR equipment.										P	
OVR Provider Work Area	30	1	30	38	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO/CIS/PRD etc).	Ideally adjacent to IT provider work area.	-	-											
IT Provider Work Area	20	1	20	25	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-											
Scoreboard Control	-	-	-	-	Location of scoreboard control operations. Operations integral with those of Sport Production, data provided from OVR System. Space for both Control and Interface workstations & 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.										G	P
Scoreboard Control	2	1	2	4	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator & workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-											
Scoreboard Interface	2	1	2	4	Area for interface equipment (PC workstations) linking OVR system & Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-											

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Results Printing (PRD)	60	1	60	75	Location for hard copy results production & distribution. Location of high intensity work involving many staff preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area & position for the Print Distribution Workstation (IDS interface) equipment and operator.	Near/adjacent to Press Workroom, access to Press Tribunes, Broadcast Commentary Positions, Sport Information Desk, Doping & Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specification. Space & FF&E required for equipment and operational staff as well as space for 1 x pallet of paper to support print/copy operations.	-	I	I	I	F						R	IF, Swatch
TV Graphics Interface	3	1	3	6	Location where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operators & good cable access to OVR room.	-				I		F			G	P	
Technology Storage																			
Technology General Storage	15	1	15	18	Location for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F					G	P	
IT Bulk Storage	30	1	30	38	Storage area for all spare IT equipment & associated boxes/containers.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to IT provider at all times.				F					G	P	
Reprographic Primary Storage Area	12	1	12	15	Primary storage/technical area in-venue for reprographic provider. Storage for spare parts, additional devices and consumables serving primarily Results Printing Operations.	In venue location adjacent to, or within Results Printing Room.	High Security - lockable. Standard office environment with standard power. Workspace & FF&E for one technician.	-	I		F						G	P	
Reprographic Bulk Storage Area	15	1	15	18	Storage area for bulk paper allocated to venue (multiple pallets).	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of paper required to support venue operations.				F					G	P	
Timing and Scoring Workshop	10	1	10	13	In venue storage & workshop for timing equipment, spare parts & small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.	-	I		F						G	P	
Timing & Scoring Bulk Store	30	1	30	38	Storage area for large crates & containers used for scoreboards and bulk equipment. Must be accessible to OVR provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of Timing & Scoring equipment deployed to venue. May be combined with Timing & Scoring Workshop if location & size of space meet requirements for venue.	I		F						G	P	
Audio Visual Bulk Store	30	1	30	38	Storage area for large crates & containers used for video boards, PA equipment & TV boxes. Must be accessible to Video/Public address provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of audio/video equipment deployed to venue.				F					G	P	
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closet. CCFs are to be installed in locations that allow for easy access for service technicians and which allow for easy cable access both from TER room and to user device locations.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Work Room.	High Security - lockable and weatherproof. May require fan or dedicated A/C depending on room location and/or configuration. Fully redundant power (mains and generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.	I		F							P	
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of power from data/voice and audio-visual cabling.	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in an manner which allows for easy access and repair/replacement. Legacy installations are to be installed as permanent while temporary (overlay) should be installed using methods which are easily installed and removed minimising potential damage to existing venue.				F						P	
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.	-	-	-											
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.	-	-	-											
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.	-	-	-											

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CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	-												
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	-												
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-												
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-												
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-												
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-												
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-												
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing and Scoring/OVR contractor.	I			F							P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.												
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F							P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the videoboard. Required for outdoor venues where the videoboards cannot be suspended from ceiling structure.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each videoboard.												
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Production on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F						G	P	
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to/from audio/PA amplification system and/or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend PA speakers from venue ceiling structure.	-	-	-												
Mobile Phone Infrastructure (antenna)	-	Varies	-	-	Infrastructure required to support installation of additional radio antenna & mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to/from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.	I			F						G	P	

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Ticketing																			
Ticket Box Office	40	1	40	100	An area at the venue where Olympic tickets are sold.	Adjacent to the secure perimeter; near the spectator entry point of the venue	Gross area includes internal & external queue.	Assumes container unit with disabled access to internal and external service window. Dependant upon venue layout and footprint, spectator access point locations.											P
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	15	1	15	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s)	15	1	15	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	25	1	25	50	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.											P
Driver Staging	80	1	80	150	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.											P
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside venue secure perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	20	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-											P
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from Host City, based on vehicle/bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J								P
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J								P
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F							P
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.											G IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.											G IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.	I		F								G IOC
Spectator and Staff Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.											P
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F							P
Accessible	-	-	-	-	-	-	-	Part of Spectator total.											P
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Surface areas paved or gravel.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have drop-off in close proximity to accredited entry point and then driver will park.			I	F							P
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.											P
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.											P
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-			J	J							P
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes vehicle circulation.											P
Emergency Services	-	-	-	50 (each)	-	Generally located inside the Secure Venue Perimeter.	-	Includes vehicle circulation.											P
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.											P
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.	-											P

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.		I			F					P	
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.											
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-	-											
Venue Development																			
Site Management Compound	503	1	503	650	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Dependent upon venue footprint, extent of temporary works and number of contractors.					F					P	
Site Management Area	60	1	60	-	-	-	Enclosed space.	-											
Site Manager & Assistant Site Manager(s) Work Area	12	1	12	-	Work and meeting area for the Site Manager and Assistant Site Manager.	-	-	-											
Site Administration Desk & Work Area	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-	-											
Response Team & Vendor Staging	24	1	24	-	On-site permanent and temporary facilities for specialty staff and general labor crew to be on-call.	-	-	-											
Secure Storage - Site Management	12	1	12	-	Area for storage.	-	-	-											
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.	-	Enclosed space. Area for office, staging and a secure storage area.	Assumes container units or existing space. Contractor usually installs container units at their own cost.											
Sign/Look Staging, Work Space/Secure Storage	50	1	50	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	-	Assumes container unit or existing space.											
Material Warehouse/Construction Work Space	80	1	80	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	-	Enclosed space.	Assumes tent or canopy with 2 side walls. Area for carpentry, painting and general construction. Storage for non-weather proof materials.											
Vendor Secure Storage	60	1	60	-	Area for containers, usually provided by the various temporary construction sub-contractors.	-	Enclosed space.	Assumes container units or existing space.											
Materials Staging Area	50	1	50	-	Area for the off-loading and loading of bulk construction materials.	-	Area only.	-											
Exterior Storage Area	50	1	50	-	Outdoor storage of material and products.	-	Area only.	Weatherproof area for large and bulk materials.											
Vehicle Staging	90	1	90	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	-	Area only.	Service, Repair & Specialty vehicles.											
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.		I			F					P	
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.	-		I			F					P	
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.		I			F					P	
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.											
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-	-											

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Venue Management																			
Venue Operations Centre (VOC)	60	1	60	90	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Dependent upon venue capacity and venue layout.										P	
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-					F						
Assigned Desks	20	1	20	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Space and Storage	18	1	18	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	40	1	40	50	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.					F					P	
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	24	1	24	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	8-10 people.											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	150	1	150	180	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre.	Enclosed space.	Assumes existing space or tent. Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.					F					P	
Workforce																			
Workforce Area	150	1	150	180	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.					F					P	
Check-In Area	96	1	96	-	Area to log-in venue staff and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Area	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	335	1	335	400	The space where workforce meals are served and where workforce can break during their shift.	A location that will provide easy access to all workforce for breaks and meals; will vary according to venue layout/size.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon venue workforce numbers.					F					P	
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Accreditation																							
Venue Accreditation Office	50	1	50	125	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.										P	-				
Day Pass Issue & Problem Resolution Desk	15	1	15	-																			
Work Area	15	1	15	-																			
Manager Desk or Office & Storage	12	1	12	-																			
Waiting Area	8	1	8	-																			
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	-	Enclosed space. Required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.					F					P	-				
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.															
Broadcast																							
Broadcast Compound	-	1	-	3500	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements.															
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Gross area includes snow removal access. Assumes container unit.															
Broadcast Manager Office	12	1	12	-		-	-	-	-														
Work Room, Assigned and Unassigned Desks	48	1	48	-		-	-	-	-														
Technical Operations Centre	40	1	40	100	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Broadcast Catering	140	1	140	180		Located inside Broadcast compound.	Enclosed space.	-	-														
Kitchen and Prep	20	1	20	-		-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.														
Buffet Line and Dining	120	1	120	-	Dining and break area for broadcast personnel.	-	-	Located in temporary structure. Assumes container/trailer unit or tent.															
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements.															
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-															
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters.															
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-															
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.															
Toilets	1.5	8	12	36	Toilet units designated for broadcast personnel.	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.															
Commentator Control Room (CCR)	55	1	55	70	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in close proximity to commentator position area.	Enclosed space with incoming television cable.	Assumes existing space or container unit.															
Broadcast Information Office (BIO)	20	1	20	25	Space for broadcast management and team meetings.	Located near commentator positions and CCR	Enclosed space.	Assumes existing space or container unit.															
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-															
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J												
Mixed Zone	10-15 linear mtrs.	1	10-15 linear mtrs.	170	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Adjacent to the FOP.	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I	I	J												
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in seating areas with view to FOP and covered when possible.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Outdoor commentator positions should have the option of cover for protection from various weather conditions (e.g. sun, rain). Space for commentator positions may vary according to actual venue/permanent seating setup.															

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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	Located at the rear of the commentator grouping so as not to disrupt the FOP view of other commentator positions.	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	A com-cam position equals 2 adjacent commentator positions.			I	J			J	I			
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions.	1 position = uses 1 seat in existing seating bowls.	-			I	J			J	I		R	IOC
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval. Space for camera positions may vary according to actual venue/permanent seating setup.	J		I	J			J	J		R	IOC
Camera Position - Other	4	20	80	180	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	Only 15 positions required for Court 1 facility. Space for camera positions may vary according to actual venue/permanent seating setup.	I		I	J			J	I		R	IOC
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-				J	I		J			G	IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	See also Technology requirements.				J	I		J			G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in Back of House areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.				J	I		J			G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography	J			J	I		J	I		R	IOC
Catering																			
Catering Compound	565	1	565	850	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity.										P	
Work Areas - Catering Management	28	1	28	-		-	Enclosed space.	Gross area includes snow removal access.											
Organising Committee Catering Manager	-	-	-	-		Located in Venue Operations Centre.	See Venue Management - VOC.	Assumes existing space or container.											
Catering Contractor	16	1	16	-		-	-	-											
Beverage Contractor	12	1	12	-	Operational work space(s).	-	-	-											
Dry, Cold and Ice Storage	38	6	228	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.											
Vehicle Staging	90	1	90	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-											
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-											
Kitchen and Preparation Area	80	1	80	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.											
Uncovered Storage	75	1	75	-	Outdoor storage of material and products.	-	Area only.	-											
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilets should be provided.											
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit.	-											
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container's). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity and level of catering activity.			I		F					P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	See Look for details.	-			I		F					P	

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Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Ceremonies																				
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-											P	
Ceremonies Staging	36	1	36	45	For the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule; to coordinate location of podium, procession, and recession route, and location of flagpoles.	Adjacent to or close to FOP.	Consists of coordinator work space with area for anthem storage, secure storage, preparation and dressing area; see below for additional details.	Assumes existing space or container.											P	
Manager Desk	6	1	6	-	Workspace for Manager.	-	-	-												
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenters, Medal/Flower staging, Secure medal and flag storage	22	1	22	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format. Medals storage is not required for those venues where the medal ceremony will take place at another location.												
Presenter Preparation and Dressing	4	2	8	-	A dressing and preparation area for Presenters.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-												
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	Close to FOP.	Limited use, may be shared with other space. See Sport Presentation.	-		I		F							P	
Awards Podium Storage	12	1	12	15	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	-			I	F							P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.	I		J	J				J	G	R	IOC	
Cleaning and Waste																				
Cleaning & Waste Compound	252	1	252	350	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependant upon venue capacity.											P	
Vehicle Staging	72	1	72	-	Parking area for collection vehicles which generally remain inside the venue.	-	Area only.	-												
Sorting Area	72	1	72	-	Area for sorting waste.	-	Area only.	-												
Waste & Recycle Containers	15	4	60	-	Area in front of waste and recycle bins where material is separated for containment.	-	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).												
Compactor Unit	25	Varies	Varies	-		-	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.												
Equipment Supply & Storage	15	2	30	-	Space for cleaning equipment and paper product.	-	Enclosed space.	Assumes container unit.												
Contractor Office	18	1	18	-	Space for management and workforce staging.	-	Enclosed space.	-												
Doping Control																				
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	-	J		J	J							R	IOC
Waiting Area/Reception	26	1	26	30	Area where athletes check-in and wait prior to testing.	-	-	-												
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Blood Processing Room(s)	15	Varies	Varies	20 (each)	Area where athlete blood samples are provided and sealed	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Office / Storage	12	1	12	15	Work and storage space for Doping Manager.	-	Enclosed space. Secure storage.	-												
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-	I		J	J							R	IOC

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Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.					F					P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of workforce pre-shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large group.	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.					F					P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.					F					P	
Information Desk	-	-	-	-	-	-	-	-											
Lost and Found	-	-	-	-	A holding area for items found in the venue.	-	-	-											
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spectators.	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	-	-	Will depend on level of service at venue.					F					P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes; located between screening/search area and spectator plaza.	Total number generally 50% of security screening positions.					F					P	
Stroller Storage	Varies	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	In close proximity to seating area.	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.					F					P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.					F					P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators					F					P	
Spectator Shade and Shelter	Varies	Varies	Varies	72 (each)	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and spectator service amenities.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.					F					P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-					F					P	
Spectator Toilets	1.5	Varies	Varies	5 (each) 6 (per 20 toilets)	Toilet units designated for spectators.	Located in FOH, close proximity to seating and spectator amenities.	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.					F					P	
Hand Wash Stations	1	Varies	Varies		A chemical unit used in the absence of potable water.	Located in FOH, close proximity to seating and spectator amenities.	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.					F					P	

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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Finance																				
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I			F						P	
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Generally located inside venue perimeter and outside venue perimeter.	Area only.	Dependant upon venue capacity.												
Language Services																				
Work Area / Desk	20	1	20	25	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre.	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-			J	J			I			G	IOC	
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference needs.	-			J	J			I			G	IOC	
Logistics																				
Logistics Compound	-	1	Varies	650	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access. Secondary Compound Area - an additional compound area may be necessary for staging or storage of equipment that is in close proximity to FOP and/or the finish area.											P	
Logistics Centre	60	1	60	-	-	-	Enclosed space.	Assumes container units or tent.												
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-												
Team Staging/Work Area	33	1	33	-	Space for staging and a work area.	-	-	-												
Secure Storage & Equipment Sign-out	15	1	15	-	Area for storage.	-	Storage for tools.	-												
Warehouse Storage	90	1	90	-	Storage area for furniture, fixtures, and equipment (FF&E).	-	Enclosed space.	Assumes tent												
Storage Yard	75	1	75	-	Outside storage area within compound.	-	Area only.	-												
Vehicle Staging	100	1	100	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-												
Fuel Tank(s)	9	Varies	Varies	25 (each)	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.												
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.												
Material Transfer Area (MTA)	-	1	-	575	Generally for deliveries to the venue that may take place after hours or not within the logistics delivery window period.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.											P	
X-Ray Area	36	1	36	72	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.												

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Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Look of the Games																			
Work Area and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.					F					P	
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J					J		R	IOC
National Olympic Committee (NOC) Flags	Varies	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events) and competition format.	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.			J	J				J		R	IOC
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and back of locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J				J	G	R,P	IOC, IF
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals.	-											
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH).	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.		I	J	J				J	G	R	IOC, L
Backdrop - Press Conference Room	2.2 x 6	-	-	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F		I	I				
Medical Services																			
Athlete Medical	65	1	65	100	An area where Medical provides services to athletes competing at the venue.	Located in Back of House within the accredited athlete area.	Enclosed space.	Assumes container or existing space.	J	J	J							R	IF
Reception & Waiting	12	1	12	-	Area where athletes check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Physiotherapy Area(s)	8	2	16	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J							S	IF
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.											
Spectator Medical	50	1	50	100	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed space. 1 per 20,000 spectators.	Assumes container unit or existing space.			I	F	I					P	
Reception & Waiting	12	1	12	-	Area where spectators check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	12	1	12	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Triage Station	36	1	38	72	Additional space to treat minor medical needs of spectators.	Located in the Front of House.	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.			I	F	I					P	
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.				F	I					P	
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Area only. Paved, graveled or grass area with fence, barricade or rope enclosure.	-			F	I						P	

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Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	I	J	F	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Merchandise																						
Office, Cash Room & Work Area	12	1	12	15		-	Enclosed space with secure entry.	Assumes container unit or existing space.							F						P	
Storage	15	2	30	35	An area to manage the retailing of all Olympic merchandise inside the venue.	-	-	Assumes storage containers or existing space. Units provided by vendor. Quantity and location decided by vendor and OCOG.						F							P	
Program Sales Stands/Booths	1	1	1	2		-	Area only.	Gross area is per each P.O.S. and includes service area and queue.						F							P	
Merchandise Points of Sale (POS)	6	Varies	Varies	18 (each)	Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.					I		F							P	
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.						I	J	J					G	R	IOC
Olympic Family Services																						
Olympic Family Lounge	240	1	240	500	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests. Area to greet Olympic Family and respond to transport requests.	-	Enclosed space.	Assumes tent.	I				I	F					I	G	G	IOC
Welcome Desk and Transportation Desk	6	1	6	-		-	-															
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.															
Staff/Volunteer Room and Storage	12	1	12	-	On-call waiting area for Protocol staff and equipment storage.	-	-															
Dining and Lounge	140	1	140	-	Area for dining and lounge.	-	-															
Preparation/Buffer set-up/Beverage Area	70	1	70	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Staff/Volunteer, Athlete, Media)															
Toilets	30	1	30	60	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	4 female, 4 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided							F						P	
Protocol flags	-	-	-	-	-	-	See Look of the Games.						J	J							R	IOC
Press Operations																						
Venue Media Centre (VMC)	600	1	600	800	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Confer	Close proximity to Press Tribune, Press Conference room, and Mixed Zone area.	Enclosed space for 155 press and 25 photographers.	Assumes tent. This space is calculated for a Tennis venue where all matches are being played on central and outside courts.							F						R	IOC
Reception & Information Desk	24	1	24	-	Welcome desk at the entrance, for information distribution.	-	-															
Storage	6	1	6	-	Equipment storage.	-	-															
Press Manager Office	12	1	12	-	Operational work space.	-	-															
Photo Manager Office	12	1	12	-	Operational work space.	-	-															
Olympic News Service (ONS) Work Room or Area	35	1	35	-	Operational work space.	-	Enclosed space.															
Info Stations	28	1	28	-	Computer stations and printers.	-	-															
Press Work Room or Area	240	1	240	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.														
Photo Work Room or Area	50	1	50	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.															
Photographers Check-in & Photo Bib Distribution	12	1	12	-	Area where photographers register and receive/return photo bibs.	-	-															
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.														
Lounge/Catering Prep	100	1	100	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-															
Toilets	1.5	8	12	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided														

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Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Press Conference Room	150	1	150	280	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I			F						R	IOC	
Seating Area	100	1	100	-	An area for accredited press.	-	Seats and standing room.	-												
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3.6 m table, 8 chairs & step and repeat backdrop.	-												
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-												
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-												
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-				F			I	I				
Mixed Zone	20 linear mtrs.	1	20 linear mtrs.	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I		I	F						R	IOC,IF	
Press Tribune	-	-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	-	Tabled seating is fitted out with telephones, television monitors, power and other press facilities (indoor venues). For outdoor venues, these services will exist in VMC.	-												
Press Tabletop Seating	Varies	Varies	Varies	-	-	Easy access from Venue Media Centre and direct access if possible to Mixed Zone.	<u>In an existing stadium or seating area:</u> 1 seat wide (folding chairs at 60 cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50 cm deep tabletop per position, each position = 2 stadium seats. <u>Temporary Stands:</u> 1 seat (folding chairs at 60 cm spacing) x 2 rows deep of proposed seating system (normally 150 cm-170 cm deep).	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.			I	F						R	IOC,IF	
Press Seating (non-tabled)	Varies	Varies	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.			I	F							R	IOC,IF
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided												
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-												
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	Key positions located on the FOP.	Total number of expected photographers at medal sessions: 80. 60cm wide x 90cm deep per position, multi-row areas require 60cm riser per row.	Power, Wireless and data cabling needed to photo positions on FOP.	J		I	J							R	IOC, IF
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Placed at corners or ends in seating areas.	See Venue Seating for quantities by sport.	Seating areas are generally not applicable for outdoor venues.	I		I	F							G	IOC
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-												

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Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Security																				
Security Command Centre	120	1	120	145	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.										P		
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-												
Security Work Area	15	1	15	-	An area for additional security agencies.	-	-	-												
CCTV Surveillance & Video Desk	15	1	15	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-												
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.												
Radio Dispatch & Monitoring	15	1	15	-	An area for the monitoring and control of security communication and the distribution/return of radios.	-	-	-												
Work Room	50	1	50	-	Open plan of work stations designated for security personnel.	-	-	-												
Secure Storage	10	1	10	-	An area for Security equipment storage.	-	Enclosed, secure space.	-												
Dog Cage(s)	4	Varies	Varies	8 (each)	Holding area for security dogs.	-	Area only for enclosed portable units (e.g. cages).	Dependent upon Host City/Country / Risk Assessment.							F					
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-							J	J			P	
Briefing and Break Area / Staging Area	140	1	140	170	Area for briefing staff before and after shifts.	-	Enclosed space.	Assumes tent.												
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.						J	J			P		
Vehicle Screening & Sanitisation Area	569	1	569	800	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.							I	F			P	
Vehicle Queue	175	1	175	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-												
Oversized Vehicle Queue	140		140	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-												
Vehicle Sanitisation & Wanding Areas	150		75	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.												
Oversized Vehicle (Truck & Bus) Sanitisation	70		70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-												
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.												
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Enclosed space for staging and break.	-												
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the venue secure perimeter and/or venue screening area for constituents.	-	Dependent upon spectator capacity and venue design.							F		G	P		
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-												
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-	I		F					I		P		
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-	I		F					I		P		
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.	I	I	F					I		P		

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Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the venue secure perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.										R	IOC
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the venue secure perimeter.	Enclosed space for screening/search area positions.. Net area for each screening position will accommodate the following: 4 Wanding Stations, OR 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue. Dependent upon spectator capacity and venue design.											
Athlete / Team	18	1-2	18-36	36-72	-	BOH.	-	-				F						R	IOC
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with Athlete and/or Olympic Family.				F						G	IOC
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with TO, ENG and/or Press.				F						P	
Broadcast	18	1-2	18-36	45-90	-	BOH.	-	If possible, direct access from outside venue perimeter into Broadcast Compound.											
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	BOH; located in close proximity to Venue Broadcast Compound.	-	-											
Press and Photographer	18	1-2	18-36	36-72	-	BOH; located in close proximity to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast).	If possible, direct access from outside venue perimeter into Venue Media Centre.				F	I						
Workforce (Staff/Volunteer/Contractor/Vendor)	18	2-3	36-54	90-135	-	BOH or possibly FOH.	-	-				J	J					P	
Spectator / Sponsors	18	Varies	Varies	54	-	FOH.	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-	I			F							P
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.				F		I					P
Exception Gate	Varies	Varies	Varies	-	Access gate for designated accredited personnel.	FOH; located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.				F							P
X-ray of bags	36	Varies	Varies	72 (each)	Device for screening bags/equipment coming into the venue.	FOH and BOH.	Covered.	-				F	I						P
Venue Perimeter Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	Dependent upon spectator capacity and venue design.											
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	1m to 3m width, sometimes used as a secondary service vehicle exit point.	-											
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m each, number varies per concourse design.	-											
Workforce (Staff/Volunteer/Contractor/Vendor)	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	Size dependant upon total workforce numbers.				I	F				G	P	
Sponsor Services																			
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.				I	F						P

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Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Sport Operations																			
Competition Management	75	1	75	90	A work area for Sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located close to Athlete Area and FOP; may be co-located within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space.	I				F					P	
Competition Manager & Asst. Manager Desks	12	1	12	-	An area for the Manager and Assistant(s) Manager.	-	-	-											
Assigned Work Area	24	1	24	-	Open plan of work stations designated for Sport personnel.	-	-	-											
Hot Desks	15	1	15	-	Shared work stations.	-	-	-											
Work Area	24	1	24	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-											
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-											
Score Control Area	-	-	-	-	-	-	See Technology.	-	J			J						R	IF
Sport Information	60	1	60	70	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located in Athlete Lounge area	Area with a desk located in the Athlete Lounge.	Includes: information boards, pigeon holes, Info & Help Desk, work area, info terminal stations & storage.	J			J						R	IF
Player Welcome Area	150	1	150	175	An area where players, player escorts and officials gather when each match is called to go to court. Also, it serves as the location where team officials reserve times for the training courts.	Located in the Athlete area with easy access to FOP and back of house areas.	-	-	J			J						R	IF
Athlete Lounge	560	1	560	650	An area where athletes can relax at the venue while not training or competing.	Located in Athlete Area.	Enclosed space.	Includes: seating area, lounge, Info & Help Desk, info terminal stations. Sport Information is co-located in the same area.	J			J						R	IF
Athlete Dressing, Locker, Shower, Toilet	280	2	560	650	Change-room facilities to accommodate athletes at the venue during competition and training.	Located in Athlete Area.	Enclosed space. Male and female facilities.	Assumes container units or existing space.	J			J						R	IF
IF & Sport Meeting Room	30	1	30	45	Meeting facility at the venue for the International Federation and Competition Management.	Located in close proximity to the IF Area and Competition Management area.	Enclosed space.	Shared meeting room area between IF & Sport to serve various meeting needs.	J			J						G	IF
Sport Equipment Storage	150	1	150	200	Storage for sport equipment.	Located adjacent to FOP or within close proximity.	Enclosed space.	Temporary unit (tent) or existing space. Preferably a main storage area and 2 smaller storage areas to service the additional courts. Athlete equipment is stored with the athletes in the athlete change room.	J			J	I					R	IF
FOP Equipment Storage	50	1	50	75	Storage of equipment required for competition and other material/products (e.g. water) used during the competition by players.	Located adjacent to FOP or within close proximity.	Equipment for sport stored close to FOP - e.g. Umpires Chairs, Nets.	-	I			F	I					R	IF
Laundry Service and Towels	20	1	20	25	Area where towels can be laundered.	-	Enclosed space.	Higher volume during the early stages of competition.	J			J						R	IF
Ball Persons Areas	50	3	150	200	An area where ball persons can change and relax while working at the venue.	Located in BOH and close proximity to FOP.	1 Ball Persons - lounge. 1 Ball Persons - male change area. 1 Ball Persons - female change area.	-	J			J						R	IF
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	Reference should be made to ITF guidelines for all FOP technical requirements.	-											
Playing Surface Dimensions or Area	263	Varies	263	410	-	-	10 match courts for Olympic competition. 32m x 8.23m. Total area required is 32m x 12.8m. Each side of the FOP/court there shall be a space behind each base line of a minimum of 8.23m and sides are 4.57m. If the courts are side by side the space between must be a minimum of 10.97m.	-	F			I						R	IF
Surface	-	-	-	-	-	-	Refer to ITF Standards; same as a grand slam event.	-	F			I						R	IF
Orientation	-	-	-	-	-	-	North - South Axis.	-	J			J	I					R	IF
Sports Lighting - Technical	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	-	Use of practice/training courts on-site. 6 practice courts.	-	F									R	IF
Gym Area	100	1	100	150	Area where athletes can train or exercise while at the venue.	Located in close proximity to the Athlete areas and changerooms.	Enclosed area.	Assumes container units or existing space. Tennis athletes remain at the venue for most of the day for training, matches, warm-up, etc..	F		I							P	IF
Athlete / Team Seating	-	-	-	-	A designated seating area for athletes.	-	-	-	J	I	J							R	IOC,IF
Same Sport	-	Varies	-	-	-	-	-	-	J	I	J							R	IOC,IF
Different Sport	-	Varies	-	-	-	-	-	-	I	I	F							R	IOC
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	May be required for Sport Staff use. Quantity varies according to athlete numbers.				F						P	
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	Required if FOP is not located near Athlete Area.	Assumes temporary units. Quantity varies according to athlete numbers.				F						P	
International Federation																			
IF Area	180	1	180	85	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located in close proximity to accredited seating areas.	Enclosed space.	Assumes container units or existing space.	I	I	F							R	IF
IF President's Office	15	1	15	-	-	-	-	-	I	I	F							R	IF
IF Secretary - General/Executive Director's Office	15	1	15	-	-	-	-	-	I		F							G	IF
Reception, Secretariat, Waiting & Work Area	150	1	150	-	An area where IF staff work directly with team officials/players for meal voucher and ticket distribution.	-	-	-	I		F							G	IF
Jury of Appeals Room	20	1	20	20	This space is utilised for the resolution of protests and appeals after competition.	-	Enclosed space.	Assumes container units or existing space.	I		F							R	IF
ITF Tournament Director Office	30	1	30	35	Area for tournament director and workforce.	-	Enclosed space. Office and work area.	See Technology for Public Address Announcer Area, Sound Systems Control Room, Results Print Room, Timing Control Room.	J		J							R	IF
Referees Room	40	1	40	50	Area for head referee and assistant referees. Also for staff who are responsible for booking/allocating practice courts.	-	Enclosed space.	Assumes container units or existing space.	I		F							R	IF
Lounge - Umpires & Linesman	350	1	350	400	Rest area for officials.	-	Enclosed space.	Assumes container units or existing space. Higher volume of umpires and linesman in the early stages of competition.	J		J							G	IF
Umpires & Linesman - Locker Room	50	1	50	75	A change area for officials.	-	Shower, toilets, change areas. Separate Male and Female facilities.	Assumes container units or existing space.	I		F							R	IF
Technical Delegates Office & Work Area	15	1	15	20	Office area for Technical Delegates.	-	Enclosed space. 2 Technical Delegates.	Assumes container units or existing space.	I	I	F							R	IF
Chief of Umpires Office	20	1	20	25	Office for chief umpire.	-	Enclosed space.	Assumes container units or existing space.	I		F							R	IF
Referees Meeting Room	20	1	20	25	Meeting area for referees and chair umpires.	Located adjacent to the Referees room.	Enclosed space.	Assumes container units or existing space.	I	I	F							R	IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I	J	J							R	IOC,IF
Sport Presentation																			
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.											
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-			F							P	
Announcer Position	3	1	3	-	-	-	-	-			F							P	
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space, consisting of work area, green room, entertainer staging and dressing and prop storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.				F						P	

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Technology Operations																						
Technology Help Desk	20	1	20	25	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support staff & manager.	-						F							P	
Venue Technology Operations (VTO)	25	1	25	32	OCOG Technology Operations area. Operational work space for entire Venue Technology team, including Partners & contractors.	Adjacent to or within Venue Operations Centre (VOC).	Medium security - lockable room. Air-conditioned as office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	-						F						G	P	
OCOG Venue Technology Work Area	-	1	-	-	Work space for Venue Technology Manager, Assistant Venue Technology Manager, Technology Workforce Manager and associated volunteer(s).	-	-	Work space size may be dependent upon workforce per shift.														
AV Contractor Work Area	-	1	-	-	Work space for AV contractors/Technicians.	-	-	Work space size may be dependent upon workforce per shift.														
IT Provider Work Area	-	1	-	-	Work space for IT workforce and "home base" for IT volunteers.	-	-	Work space size may be dependent upon workforce per shift.														
Reprographic Provider Work Area	-	1	-	-	Work space for reprographic contractors/technicians	-	-	Work space size may be dependent upon workforce per shift.														
Mobile Phone Provider Work Area	-	1	-	-	Workspace for mobile phone provider.	-	-	Work space size may be dependent upon workforce per shift. Charging area for Venue Operations workforce phones may be required.														
Wired Communications Provider Work Area	-	1	-	-	Work space for Wired Communications contractors/technicians.	-	-	Work space size may be dependent upon workforce per shift.														
Timing & Scoring/OVR Provider Work Area	-	1	-	-	Work space for OVR/Timing & Scoring contractors/technicians.	-	-	May not be required if adequate working space is allocated in OVR room.														
Radio Distribution Room (RDR)	20	1	20	25	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E and workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).			I			F							P	
Information Technology																						
Computer Equipment Room (CER)	16	1	16	20	Location for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.				I		F						G	P	
Data Local Area Network (LAN) Management Room & Store	25	1	25	32	LAN monitoring room & associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational staff & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces.						F						G	P	

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Telecommunication & Audio Visual																			
Telecomm. Equipment Room (TER) Primary	36	1	36	45	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	Raised flooring is preferable for cabling distribution, but not essential.		I		F						P	
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER.	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.		I		F						P	
Telecomm. Operations & Store	25	1	25	32	Operational space for Telecommunications technical staff and associated storage for spare parts.	Adjacent to TER.	As TER with adequate FF&E to support operational staff & storage.	If located adjacent to TER, power supply boards, UPS units & A/C services can be common for both spaces.		I		F						P	
Audio Control Positions	-	-	-	-	-	-	-	-				F					G	P	
Field of Play - Courts 4-9	4	1	4	8	Area within Sport Production, location for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Production. Can be on FOP, in stands or in a booth with view to FOP.	High Security. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	Storage for country anthems.											
Field of Play - Courts 1-3	4	1	4	8	-	-	-	-											
Field of Play - Centre/Main Court	4	1	4	8	-	-	-	-											
Press Conference	4	1	4	8	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), air-conditioned, waterproof. Work space & FF&E for operator.	PA system may also be used for Competition Draw if draw is held in Press Conference room.											
Warm-Up Area	0	0	0	-	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Within Warm-up area for Athletes.	Standard/mains power & FF&E.	-											
Technical Operations	2	1	2	4	PA systems required for Technical Operations area. Space required for amplifier/microphone.	Location as required by SPT.	-	-											
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-											
Workforce Break/Dining	2	Varies	Varies	-	Area within Staff Break/Training room where audio control equipment is installed to facilitate meetings/training of large numbers of staff.	Workforce break/dining areas.	Standard/mains power & FF&E.	-											
Video Board Control	0	0	0	-	Location of video control for video board or video projection system. Operations integral with those of Sport Production.	Ideally with Sport Production. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	-				F					G	P	
Wired Communications Control	2	1	2	4	Location of wired communications master control station and support technician. System essential to operations of both Sport Production and Results/FOP management.	Near to or within Sport Production is preferable. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location is located outdoors. Good cable access to FOP, OVR Room, Sport Production, Broadcast Graphics Room & Results Printing required. Workspace & FF&E for one technician, control equipment, spare parts and containers/boxes for equipment.	Two systems may be required if one cannot sufficiently provided communications to meet requirements across Preliminaries, Finals and Show Court.				F					G	P	
Temporary PA equipment Room	2 min	1	2 min	4 min.	Temporary location for installation of PA active equipment (amplifiers etc) for venue PA system.	In existing PA equipment room, if applicable. May be located under venue seating/tribunes if existing room not available.	High Security. Fully redundant power (mains & standby generator) to equipment. Good cable access to speaker location and PA/Audio Control position required. Equipment installed in racks. Each rack set is 1000H x 600W x 600 D maximum.	Number of racks will depend on size of system deployed. Generally venues with large geographic area (outdoor) require larger installation and therefore more racks of amplifier equipment. Three areas may be required if one cannot sufficiently provided space for equipment supporting both Preliminaries, Semi Finals and Finals.				F						P	

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Timing, Scoring and Results Operations																			
Results Data Entry Position	-	-	-	-	Location(s) for event results and/or statistics data entry during competition.	As noted below.	High Security. Fully redundant power (mains & generator) with UPS to all results data entry equipment/workstations. Space & FF&E for all data entry personnel & results management staff.	Adequate weather (rain/sun) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
Field of Play - Courts 4-9	12	6	72	85	Areas/positions for results and/or statistics on the FOP.	FOP located at Control Table with sport officials.	Cable access to sport specific scoreboards & OVR room	May occur as a position on the FOP, or in a room with a view to the FOP.											
Field of Play - Courts 1-3	6	3	18	23	-	-	-	-											
Field of Play - Centre/Main Court	2	1	2	4	-	-	-	-											
Timing and Scoring Position	-	-	-	-	Location(s) for event timing & scoring personnel & equipment during competition.	As noted below.	High Security Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards, ball speed guns & OVR room. Space & FF&E for operators and equipment. Adequate weather (rain/sun) protection for equipment/workstations to be provided. Based on 10 courts used for Tennis competition.		I	I	I	F						R	IF, Swatch
Field of Play - Courts 4-9	12	6	72	85	-	FOP located at Control Table with sport officials.	-	-											
Field of Play - Courts 1-3	6	3	18	23	Includes position for "ball speed gun" control for courts 1 & 2 only.	-	-	-											
Field of Play - Centre/Main Court	2	1	2	4	Includes position for "ball speed gun" control.	-	-	-											
On Venue Results (OVR)	-	-	-	-	Location is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	Easy access to FOP critical for technical and results staff.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Space & FF&E required for high density of computer workstations, racks for servers and working space for technicians, operators and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or venues where two sports occur concurrently will require more space for additional OVR equipment.					I	F				P	
OVR Provider Work Area	30	1	30	38	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO/CIS/PRD etc).	Ideally adjacent to IT provider work area.	Space required in OVR to support RTDS equipment.	-											
IT Provider Work Area	18	1	18	23	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-											
Scoreboard Control	4	1	4	8	Location of scoreboard control operations. Operations integral with those of Sport Production, data provided from OVR System. Space for both Control and Interface workstations & 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Space & FF&E for control equipment & operators (2) maximum.		I	F							G	P	
Scoreboard Control - Centre/Main Court	2	1	2	4	-	-	-	-											
Scoreboard Interface - Centre/Main Court	2	1	2	4	-	-	-	-											

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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Results Printing (PRD)	160	1	160	190	Location for hard copy results production & distribution. Location of high intensity work involving many staff preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area & position for the Print Distribution Workstation (IDS interface) equipment and operator.	Near/adjacent to Press Workroom, access to Press Tribunes, Broadcast Commentary Positions, Sport Information Desk, Doping & Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specification. Space & FF&E required for equipment and operational staff as well as space for 1 x pallet of paper to support print/copy operations.	-	I	I	I	F						R	IF, Swatch
TV Graphics Interface	3	1	3	6	Location where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operators & good cable access to OVR room.	-				I		F				P	
Technology Storage																			
Technology General Storage	15	1	15	18	Location for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F						G	P
IT Bulk Storage	30	1	30	38	Storage area for all spare IT equipment & associated boxes/containers.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to IT provider at all times.				F						G	P
Reprographic Primary Storage Area	12	1	12	15	Primary storage/technical area in-venue for reprographic provider. Storage for spare parts, additional devices and consumables serving primarily Results Printing Operations.	In venue location adjacent to, or within Results Printing Room.	High Security - lockable. Standard office environment with standard power. Workspace & FF&E for one technician.	-	I		F							G	P
Reprographic Bulk Storage Area	30	1	30	38	Storage area for bulk paper allocated to venue (multiple pallets).	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of paper required to support venue operations.				F						G	P
Timing and Scoring Workshop	10	1	10	13	In venue storage & workshop for timing equipment, spare parts & small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.	-	I		F							G	P
Timing & Scoring Bulk Store	50	1	50	60	Storage area for large crates & containers used for scoreboards and bulk equipment. Must be accessible to OVR provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of Timing & Scoring equipment deployed to venue. May be combined with Timing & Scoring Workshop if location & size of space meet requirements for venue.	I		F							G	P
Audio Visual Bulk Store	30	1	30	38	Storage area for large crates & containers used for video boards, PA equipment & TV boxes. Must be accessible to Video/Public address provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of audio/video equipment deployed to venue.				F						G	P
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closet. CCFs are to be installed in locations that allow for easy access for service technicians and which allow for easy cable access both from TER room and to user device locations.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Work Room.	High Security - lockable and weatherproof. May require fan or dedicated A/C depending on room location and/or configuration. Fully redundant power (mains and generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.	I		F							P	
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of power from data/voice and audio-visual cabling.	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in an manner which allows for easy access and repair/replacement. Legacy installations are to be installed as permanent while temporary (overlay) should be installed using methods which are easily installed and removed minimising potential damage to existing venue.				F						P	
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.	-	-	-											
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.	-	-	-											
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.	-	-	-											

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Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
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CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	-												
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	-												
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-												
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-												
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-												
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-												
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-												
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing and Scoring/OVR contractor.		I		F							P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.												
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.		I		F							P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the videoboard. Required for outdoor venues where the videoboard cannot be suspended from ceiling structure.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each videoboard.												
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Production on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.		I		F						G	P	
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to/from audio/PA amplification system and/or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend PA speakers from venue ceiling structure.	-	-	-												
Mobile Phone Infrastructure (antenna)	-	Varies	-	-	Infrastructure required to support installation of additional radio antenna & mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to/from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.		I		F						G	P	

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Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Ticketing																			
Ticket Box Office	40	1	40	100	An area at the venue where Olympic tickets are sold.	Adjacent to the secure perimeter; near the spectator entry point of the venue	Gross area includes internal & external queue.	Assumes container unit with disabled access to internal and external service window. Dependant upon venue layout and footprint, spectator access point locations.										P	
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	15	1	15	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s)	15	1	15	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	25	1	25	50	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.										P	
Driver Staging	80	1	80	150	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.										P	
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside venue secure perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	20	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-										P	
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from Host City, based on vehicle/bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J							P	
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J							P	
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F						P	
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.				F						G	IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.				F						G	IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.			I	F						G	IOC
Spectator and Staff Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				F						P	
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F						P	
Accessible	-	-	-	-	-	-	-	Part of Spectator total.				F						P	
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Surface areas paved or gravel.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have drop-off in close proximity to accredited entry point and then driver will park.			I	F						P	
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.				F						P	
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.				F						P	
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-			J	J						P	
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes vehicle circulation.				F						P	
Emergency Services	-	-	-	50 (each)	-	Generally located inside the Secure Venue Perimeter.	-	Includes vehicle circulation.				F						P	

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Venue Development																			
Site Management Compound	503	1	503	650	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Dependent upon venue footprint, extent of temporary works and number of contractors.										P	
Site Management Area	60	1	60	-	-	-	Enclosed space.	-											
Site Manager & Assistant Site Manager(s) Work Area	12	1	12	-	Work and meeting area for the Site Manager and Assistant Site Manager.	-	-	-											
Site Administration Desk & Work Area	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-	-											
Response Team & Vendor Staging	24	1	24	-	On-site permanent and temporary facilities for specialty staff and general labor crew to be on-call.	-	-	-											
Secure Storage - Site Management	12	1	12	-	Area for storage.	-	-	-											
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.	-	Enclosed space. Area for office, staging and a secure storage area.	Assumes container units or existing space. Contractor usually installs container units at their own cost.											
Sign/Look Staging, Work Space/Secure Storage	50	1	50	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	-	Assumes container unit or existing space.											
Material Warehouse/Construction Work Space	80	1	80	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	-	Enclosed space.	Assumes tent or canopy with 2 side walls. Area for carpentry, painting and general construction. Storage for non-weather proof materials.											
Vendor Secure Storage	60	1	60	-	Area for containers, usually provided by the various temporary construction sub-contractors.	-	Enclosed space.	Assumes container units or existing space.											
Materials Staging Area	50	1	50	-	Area for the off-loading and loading of bulk construction materials.	-	Area only.	-											
Exterior Storage Area	50	1	50	-	Outdoor storage of material and products.	-	Area only.	Weatherproof area for large and bulk materials.											
Vehicle Staging	90	1	90	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	-	Area only.	Service, Repair & Specialty vehicles.											
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.	I			F						P	
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.	-	I			F						P	
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.	I			F						P	
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.											
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-	-											

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Venue Management																			
Venue Operations Centre (VOC)	60	1	60	90	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Dependent upon venue capacity and venue layout.										P	
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-					F						
Assigned Desks	20	1	20	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Space and Storage	18	1	18	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	40	1	40	50	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.					F					P	
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	24	1	24	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	8-10 people.											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	150	1	150	180	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre.	Enclosed space.	Assumes existing space or tent. Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.					F					P	
Workforce																			
Workforce Area	150	1	150	180	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.					F					P	
Check-In Area	96	1	96	-	Area to log-in venue staff and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Area	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	335	1	335	400	The space where workforce meals are served and where workforce can break during their shift.	A location that will provide easy access to all workforce for breaks and meals; will vary according to venue layout/size.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon venue workforce numbers.					F					P	
END OF DOCUMENT																			

Space (Sub-space)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation					
Accreditation																								
Venue Accreditation Office	50	1	50	125	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.											P	-				
Day Pass Issue & Problem Resolution Desk	15	1	15	-																				
Work Area	15	1	15	-																				
Manager Desk or Office & Storage	12	1	12	-																				
Waiting Area	8	1	8	-																				
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	-	Enclosed space. Required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.					F					P	-					
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Broadcast																								
Broadcast Compound	-	1	-	3000	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements.																
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Gross area includes snow removal access.					J		J			R	IOC					
Broadcast Manager Office	12	1	12	-		-	-	-	Assumes container unit.					I		F			G	IOC				
Work Room, Assigned & Unassigned Desks	48	1	48	-		-	-	-																
Technical Operations Centre	40	1	40	100	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.					I		F			R	IOC					
Broadcast Catering	140	1	140	180	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	-																
Kitchen & Prep	20	1	20	-		-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.															
Buffet Line & Dining	120	1	120	-		-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.															
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements.																
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.																	
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters.																
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.																	
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.																
Toilets	1.5	8	12	36	Toilet units designated for broadcast personnel.	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Secondary Broadcast Compound	-	-	-	2000	Serves as a secondary unit to the main compound to house various broadcast technical needs that are required for Broadcast to cover the full competition FOP or area.	Located adjacent to FOP.	Area only. Required on venues where size of FOP or location of Primary Compound exceeds cabling capabilities.	Specific elements are venue/sport specific.					J		J			R	IOC					
Toilets	1.5	2	3	9	Toilet units designated for broadcast personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Commentator Control Room (CCR)	45	1	45	60	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in close proximity to commentator position area.	Enclosed space with incoming television cable.	Assumes existing space or container unit.					I		F			R	IOC					
Broadcast Information Office (BIO)	20	1	20	25	Space for broadcast management and team meetings.	Located near commentator positions and CCR	Enclosed space.	Assumes existing space or container unit.					J		J			R	IOC					
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-					J		J			G	IOC					
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J		J	J				R	IOC					
Mixed Zone	20	1	20	170	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Adjacent to the FOP.	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I	I	J		J	I				R	IOC, IF					

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in seating areas with view to FOP and covered when possible.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Outdoor commentator positions should have the option of cover for protection from various weather conditions (e.g. sun, rain). Space for commentator positions may vary according to actual venue/permanent seating setup.			I	J						R	IOC
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	Located at the rear of the commentator grouping so as not to disrupt the FOP view of other commentator positions.	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	A com-cam position equals 2 adjacent commentator positions.			I	J							
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions.	1 position = uses 1 seat in existing seating bowls.	-			I	J						R	IOC
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions. The primary source of camera positions are the use of helicopters and boats.	FOP Camera positions are dependent upon production plans and IF approval. Space for camera positions may vary according to actual venue/permanent seating setup.	J		I	J						R	IOC
Camera Position - Other	4	30	120	270	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions. The primary source of camera positions are the use of helicopters and boats.	Space for camera positions may vary according to actual venue/permanent seating setup.	I		I	J						R	IOC
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-										G	IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	See also Technology requirements.										G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in Back of House areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.										G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography	J			J						R	IOC
Catering																			
Catering Compound	565	1	565	850	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity. Gross area includes snow removal access.					I		F			P	
Work Areas - Catering Management	28	1	28	-		-	Enclosed space.	Assumes existing space or container.											
Organising Committee Catering Manager	-	-	-	-		Located in Venue Operations Centre.	See Venue Management - VOC.	-											
Catering Contractor	16	1	16	-		-	-	-											
Beverage Contractor	12	1	12	-	Operational work space(s).	-	-	-											
Dry, Cold and Ice Storage	38	6	228	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.											
Vehicle Staging	90	1	90	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-											
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-											
Kitchen and Preparation Area	80	1	80	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.											
Uncovered Storage	75	1	75	-	Outdoor storage of material and products.	-	Area only.	-											
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilets should be provided.											
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit.	-											
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container's). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity and level of catering activity.			I		F					P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	See Look for details.	-			I		F					P	

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Ceremonies																				
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-											P	
Ceremonies Staging	36	1	36	45	For the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule; to coordinate location of podium, procession, and recession route, and location of flagpoles.	Adjacent to or close to FOP.	Consists of coordinator work space with area for anthem storage, secure storage, preparation and dressing area; see below for additional details.	Assumes existing space or container.											P	
Manager Desk	6	1	6	-	Workspace for Manager.	-	-	-												
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenters, Medal/Flower staging, Secure medal and flag storage	22	1	22	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format. Medals storage is not required for those venues where the medal ceremony will take place at another location.												
Presenter Preparation and Dressing	4	2	8	-	A dressing and preparation area for Presenters.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-												
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	Close to FOP.	Limited use, may be shared with other space. See Sport Presentation.	-		I		F							P	
Awards Podium Storage	12	1	12	15	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	-			I	F							P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.	I		J	J				J	G	R	IOC	
Cleaning and Waste																				
Cleaning & Waste Compound	252	1	252	350	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependant upon venue capacity.											P	
Vehicle Staging	72	1	72	-	Parking area for collection vehicles which generally remain inside the venue.	-	Area only.	-												
Sorting Area	72	1	72	-	Area for sorting waste.	-	Area only.	-												
Waste & Recycle Containers	15	4	60	-	Area in front of waste and recycle bins where material is separated for containment.	-	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).												
Compactor Unit	25	Varies	Varies	-		-	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.												
Equipment Supply & Storage	15	2	30	-	Space for cleaning equipment and paper product.	-	Enclosed space.	Assumes container unit.												
Contractor Office	18	1	18	-	Space for management and workforce staging.	-	Enclosed space.	-												
Doping Control																				
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	-	J		J	J							R	IOC
Waiting Area/Reception	26	1	26	30	Area where athletes check-in and wait prior to testing.	-	-	-												
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Blood Processing Room(s)	15	Varies	Varies	20 (each)	Area where athlete blood samples are provided and sealed	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Office / Storage	12	1	12	15	Work and storage space for Doping Manager.	-	Enclosed space. Secure storage.	-												
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-	I		J	J							R	IOC

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Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.										P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of workforce pre-shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large group.	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.										P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.										P	
Information Desk	-	-	-	-	-	-	-	-											
Lost and Found	-	-	-	-	A holding area for items found in the venue.	-	-	-											
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spectators.	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	-	-	Will depend on level of service at venue.										P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes; located between screening/search area and spectator plaza.	Total number generally 50% of security screening positions.										P	
Stroller Storage	Varies	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	In close proximity to seating area.	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.										P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.										P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators										P	
Spectator Shade and Shelter	Varies	Varies	Varies	72 (each)	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and spectator service amenities.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.										P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-										P	
Spectator Toilets	1.5	Varies	Varies	5 (each) 6 (per 20 toilets)	Toilet units designated for spectators.	Located in FOH, close proximity to seating and spectator amenities.	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.										P	
Hand Wash Stations	1	Varies	Varies	20	A chemical unit used in the absence of potable water.	Located in FOH, close proximity to seating and spectator amenities.	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.										P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Finance																				
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I			F					P		
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Generally located inside venue perimeter and outside venue perimeter.	Area only.	Dependant upon spectator capacity.												
Language Services																				
Work Area / Desk	20	1	20	25	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre.	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-		J	J			I				G	IOC	
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference needs.	-		J	J			I				G	IOC	
Logistics																				
Logistics Compound	-	1	Varies	650	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access. Secondary Compound Area - an additional compound area may be necessary for staging or storage of equipment that is in close proximity to FOP and/or the finish area.											P	
Logistics Centre	60	1	60	-	-	-	Enclosed space.	Assumes container units or tent.												
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-												
Team Staging/Work Area	33	1	33	-	Space for staging and a work area.	-	-	-												
Secure Storage & Equipment Sign-out	15	1	15	-	Area for storage.	-	Storage for tools.	-												
Warehouse Storage	90	1	90	-	Storage area for furniture, fixtures, and equipment (FF&E).	-	Enclosed space.	Assumes tent												
Storage Yard	75	1	75	-	Outside storage area within compound.	-	Area only.	-												
Vehicle Staging	100	1	100	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-												
Fuel Tank(s)	9	Varies	Varies	25 (each)	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.												
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.												
Material Transfer Area (MTA)	-	1	-	575	Generally for deliveries to the venue that may take place after hours or not within the logistics delivery window period.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.											P	
X-Ray Area	36	1	36	72	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.												

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Look of the Games																			
Work Area and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.										P	
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J					J		R	IOC
National Olympic Committee (NOC) Flags	Varies	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events) and competition format.	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.			J	J				J		R	IOC
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and back of locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J				J	G	R,P	IOC, IF
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals.	-											
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH).	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.		I	J	J				J	G	R	IOC, L
Backdrop - Press Conference Room	2.2 x 6	-	-	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F		I	I				
Medical Services																			
Athlete Medical	65	1	65	100	An area where Medical provides services to athletes competing at the venue.	Located in Back of House within the accredited athlete area.	Enclosed space.	Assumes container or existing space.	J	J	J							R	IF
Reception & Waiting	12	1	12	-	Area where athletes check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Physiotherapy Area(s)	8	2	16	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Athlete Massage Area	-	-	-	-	-	-	See Sport Operations.	-	J	J	J					J		R	IF
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J					J		R	IF
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.											R
Spectator Medical	50	1	50	100	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed space. 1 per 20,000 spectators.	Assumes container unit or existing space.			I	F	I					P	
Reception & Waiting	12	1	12	-	Area where spectators check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	12	1	12	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Triage Station	36	1	38	72	Additional space to treat minor medical needs of spectators.	Located in the Front of House.	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.			I	F	I					P	
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.										P	
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Area only. Paved, graveled or grass area with fence, barricade or rope enclosure.	-				F	I					P	

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	I	J	F	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Merchandise																						
Office, Cash Room & Work Area	12	1	12	15		-	Enclosed space with secure entry.	Assumes container unit or existing space.							F						P	
Storage	15	2	30	35	An area to manage the retailing of all Olympic merchandise inside the venue.	-	-	Assumes storage containers or existing space. Units provided by vendor. Quantity and location decided by vendor and OCOG.						F							P	
Program Sales Stands/Booths	1	1	1	2		-	Area only.							F							P	
Merchandise Points of Sale (POS)	6	Varies	Varies	18 (each)	Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.	Gross area is per each P.O.S. and includes service area and queue.				I		F							P	
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.					I	J	J					G	R	IOC	
Olympic Family Services																						
Olympic Family Lounge	240	1	240	500	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests. Area to greet Olympic Family and respond to transport requests.	-	Enclosed space.	Assumes tent.	I			I		F					I	G	G	IOC
Welcome Desk and Transportation Desk	6	1	6	-		-	-															
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.															
Staff/Volunteer Room and Storage	12	1	12	-	On-call waiting area for Protocol staff and equipment storage.	-	-															
Dining and Lounge	140	1	140	-	Area for dining and lounge.	-	-															
Preparation/Buffer set-up/Beverage Area	70	1	70	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Staff/Volunteer, Athlete, Media)															
Toilets	30	1	30	60	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	4 female, 4 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided						F							P	
Protocol flags	-	-	-	-	-	-	See Look of the Games.						J	J							R	IOC
Press Operations																						
Venue Media Centre (VMC)	600	1	600	800	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Confer	Close proximity to Press Tribune, Press Conference room, and Mixed Zone area.	Enclosed space for 110 press and 30 photographers.	Assumes tent. As a two day event, media centre is often a temporary structure.						F							R	IOC
Reception & Information Desk	24	1	24	-	Welcome desk at the entrance, for information distribution.	-	-															
Storage	6	1	6	-	Equipment storage.	-	-															
Press Manager Office	12	1	12	-	Operational work space.	-	-															
Photo Manager Office	12	1	12	-	Operational work space.	-	-															
Olympic News Service (ONS) Work Room or Area	35	1	35	-	Operational work space.	-	Enclosed space.															
Info Stations	28	1	28	-	Computer stations and printers.	-	-															
Press Work Room or Area	240	1	240	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.														
Photo Work Room or Area	50	1	50	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.															
Photographers Check-in & Photo Bib Distribution	12	1	12	-	Area where photographers register and receive/return photo bibs.	-	-															
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.														
Lounge/Catering Prep	100	1	100	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-															
Toilets	1.5	8	12	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided														

TRIATHLON

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Press Conference Room	150	1	150	280	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I			F						R	IOC	
Seating Area	100	1	100	-	An area for accredited press.	-	Seats and standing room.	-												
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3.6 m table, 8 chairs & step and repeat backdrop.	-												
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-												
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-												
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-				F			I	I				
Mixed Zone	25 linear mtrs.	1	25 linear mtrs.	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I		I	F						R	IOC,IF	
Press Tribune	-	-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	-	Tabled seating is fitted out with telephones, television monitors, power and other press facilities (indoor venues). For outdoor venues, these services will exist in VMC.	-												
Press Tabletop Seating	Varies	Varies	Varies	-	-	Easy access from Venue Media Centre and direct access if possible to Mixed Zone.	<u>In an existing stadium or seating area:</u> 1 seat wide (folding chairs at 60 cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50 cm deep tabletop per position, each position = 2 stadium seats. <u>Temporary Stands:</u> 1 seat (folding chairs at 60 cm spacing) x 2 rows deep of proposed seating system (normally 150 cm-170 cm deep).	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.			I	F						R	IOC,IF	
Press Seating (non-tabled)	Varies	Varies	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.			I	F							R	IOC,IF
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided												
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-												
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	Motor cycle carries pool photographer on the FOP.	Numbers vary according to course/competition management. 60cm wide x 90cm deep per position, multi-row areas require 60cm riser per row.	Power, Wireless and data cabling needed to photo positions on FOP.	J		I	J							R	IOC, IF
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Located at start/finish line and along course.	Special photo stand may need to be built at start/finish. See Venue Seating for quantities by sport.	Seating areas are generally not applicable for outdoor venues.	I		I	F							G	IOC
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-												

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Security																				
Security Command Centre	120	1	120	145	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.										P		
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-												
Security Work Area	15	1	15	-	An area for additional security agencies.	-	-	-												
CCTV Surveillance & Video Desk	15	1	15	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-												
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.												
Radio Dispatch & Monitoring	15	1	15	-	An area for the monitoring and control of security communication and the distribution/return of radios.	-	-	-												
Work Room	50	1	50	-	Open plan of work stations designated for security personnel.	-	-	-												
Secure Storage	10	1	10	-	An area for Security equipment storage.	-	Enclosed, secure space.	-												
Dog Cage(s)	4	Varies	Varies	8 (each)	Holding area for security dogs.	-	Area only for enclosed portable units (e.g. cages).	Dependent upon Host City/Country / Risk Assessment.							F					
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-											P	
Briefing and Break Area / Staging Area	140	1	140	170	Area for briefing staff before and after shifts.	-	Enclosed space.	Assumes tent.					J	J						
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.					J	J					P	
Vehicle Screening & Sanitisation Area	569	1	569	800	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.							I	F			P	
Vehicle Queue	175	1	175	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-												
Oversized Vehicle Queue	140		140	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-												
Vehicle Sanitisation & Wanding Areas	150		75	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.												
Oversized Vehicle (Truck & Bus) Sanitisation	70		70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-												
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.												
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Enclosed space for staging and break.	-												
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the venue secure perimeter and/or venue screening area for constituents.	-	Dependent upon spectator capacity and venue design.							F			G	P	
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-												
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-	I		F								P	
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-	I		F								P	
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.	I	I	F								P	

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Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the venue secure perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.										R	IOC
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the venue secure perimeter.	Enclosed space for screening/search area positions.. Net area for each screening position will accommodate the following: 4 Wanding Stations, OR 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue. Dependent upon spectator capacity and venue design.											
Athlete / Team	18	1-2	18-36	36-72	-	BOH.	-	-				F						R	IOC
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with Athlete and/or Olympic Family.				F						G	IOC
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with TO, ENG and/or Press.				F						P	
Broadcast	18	1-2	18-36	45-90	-	BOH.	-	If possible, direct access from outside venue perimeter into Broadcast Compound.											
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	BOH; located in close proximity to Venue Broadcast Compound.	-	-											
Press and Photographer	18	1-2	18-36	36-72	-	BOH; located in close proximity to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast).	If possible, direct access from outside venue perimeter into Venue Media Centre.				F	I						
Workforce (Staff/Volunteer/Contractor/Vendor)	18	2-3	36-54	90-135	-	BOH or possibly FOH.	-	-				J	J					P	
Spectator / Sponsors	18	Varies	Varies	54	-	FOH.	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-	I			F							P
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.				F		I					P
Exception Gate	Varies	Varies	Varies	-	Access gate for designated accredited personnel.	FOH; located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.				F							P
X-ray of bags	36	Varies	Varies	72 (each)	Device for screening bags/equipment coming into the venue.	FOH and BOH.	Covered.	-				F	I						P
Venue Perimeter Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	Dependent upon spectator capacity and venue design.											
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	1m to 3m width, sometimes used as a secondary service vehicle exit point.	-											
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m each, number varies per concourse design.	-											
Workforce (Staff/Volunteer/Contractor/Vendor)	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	Size dependant upon total workforce numbers.				I	F				G	P	
Sponsor Services																			
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.				I	F						P

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Sport Operations																			
Competition Management	30	1	30	50	A work area for Sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located close to Athlete Area and FOP; may be co-located within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space.	I			F						P	
Competition Manager & Asst. Manager Desks	12	1	12	-	An area for the Manager and Assistant(s) Manager.	-	-	-											
Work Area	18	1	18	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-											
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-											
Sport Information	20	1	20	25	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located in Athlete Area.	-	Includes: information boards, pigeon holes, Info & Help Desk, work area, info terminal stations & storage.	J		J							R	IF
Athlete Lounge	100	1	100	150	An area where athletes can relax at the venue while not training or competing.	Located in Athlete Area.	-	Includes: seating area, lounge, Info & Help Desk, info terminal stations.	J		J							R	IF
Athlete Massage Area	100	1	100	175	-	Start and Finish area.	Massage tables with privacy screening.	A secondary facility that may be necessary for team and athlete massage. Assumes temporary units or tent.	J	J	J							R	IF
Athlete Dressing, Locker, Shower, Toilet	30	1	30	50	Change-room facilities to accommodate athletes at the venue during competition and training.	Located in Athlete Area, close to lounge and storage area.	-	Assumes container units or existing space.	J		J							R	IF
IF & Sport Meeting Room	30	1	30	45	Meeting facility at the venue for the International Federation and Competition Management.	Located in close proximity to the IF Area and Competition Management area.	Enclosed space.	Shared meeting room area between IF & Sport to serve various meeting needs.	J		J							G	IF
Sport Equipment/Bike Storage/Service	60	1	60	100	A storage area for athlete's bicycles.	Located close proximity to transition area and/or athlete lounge.	A secure area for bicycle and bicycle racks.	Assumes tent.	I		F	I						R	IF
FOP Equipment Storage	50	1	50	65	A storage area for field of play equipment (swim bouys, bike stands, barricades, water coolers, carpet, cones)	Located in close proximity to each FOP.	Enclosed, secure space.	Space should be easily accessible by vehicle.	I		F	I						R	IF
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	Reference should be made to ITU guidelines for all FOP technical requirements.	-											
Warm-up Surface Dimensions or Area	-	-	-	-	-	-	-	-	F		I		I	I				R	IF
Swim	1500	1	1500	-	-	Lake or ocean.	A minimum depth of 1 metre. A distance of 300 metres is required to the first turn buoy; with a maximum of 8 corners (curved, no angles).	Strict water quality tests: e-coli and fecal coliform.											
Start Platform	120	1	120	-	-	Swim course start area.	Swim start: a platform dimension of 60m x 2m, construction design should be stable.	-											
Exit Platform	60	1	60	-	-	Swim course finish area.	-	-											
Bike	40 000	1	40 000	-	-	-	Bike Course: requires a minimum width of 5 metres; 6 to 8 laps to total 40km; with a minimum of 1 hill with an 8% gradient or more, plus technical corners.	-											
Run	10 000	1	10 000	-	-	-	Run: requires a minimum width of 3 metres. 3 to 4 laps to total 10km with a minimum of 1 hill of 8-10% gradient, plus technical corners.	Floating pontoons are not allowed.											
Run Finish Gantry	3m	1	3m	-	-	FOP Finish Area.	3m width.	-											
Run Finish Area	300	1	300	-	-	FOP Finish Area.	Straight area to finish-line; a minimum of 100m in length with no corners.	-											
Transition Area	270	1	270	-	-	Located after swim and bike finish area.	An area of 30m x 9m, carpeted with 1 metre per athlete and free standing bike racks and .45 x .30 x .24 equipment boxes.	Mount and dismount line required - .3m wide - yellow material. Generally, only 1 area required (transition for both bike and run).											
Surface	-	-	-	-	-	-	-	-	J		J	I						R	IF
Swim	-	-	-	-	-	-	Water - lake or ocean.	-											
Bike	-	-	-	-	-	-	Smooth road surface (tarmac/paved).	-											
Run	-	-	-	-	-	-	Smooth road surface (tarmac/paved).	-											
Orientation	-	-	-	-	-	-	Avoid sun in eyes at swim exit.	-	J		J	I		I	J			R	IF
Camera positions - IF & Team Athlete / Team Seating	3.5	4	14	-	-	Swim start, transition, finishline, strategically placed on course (e.g. hills).	-	-											
Athlete / Team Seating	-	-	-	-	-	A designated seating area for athletes.	-	-	J	I	J								
Same Sport	-	Varies	-	-	-	-	-	-	J	I	J							R	IOC,IF
Different Sport	-	Varies	-	-	-	-	-	-	I	I	F							R	IOC
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	May be required for Sport Staff use. Quantity varies according to athlete numbers.				F						P	
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	Required if FOP is not located near Athlete Area.	Assumes temporary units. Quantity varies according to athlete numbers.				F						P	

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
International Federation																			
IF Area	-	-	-	-	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located in close proximity to accredited seating areas.	Enclosed space.	Assumes container units or existing space.	I		I	F						R	IF
IF President's Office	15	1	15	20	-	-	-	-	I		I	F						R	IF
Referees Room	50	1	50	70	Area for ITOs and NTOs to meet.	-	Enclosed space.	Assumes temporary unit. Space is only used pre-event and post-event and not during race day(s).	I			F						R	IF
Jury Room	-	-	-	-	This space is utilised for the resolution of protests and appeals after competition.	Located IF area.	Enclosed space for hearings.	Use of Technical Delegates office and work area can be used for jury meetings.											
Technical Delegates Office & Work Area	15	1	15	20	Office area for Technical Delegates.	-	Enclosed space. 2 Technical Delegates.	-	I		I	F						R	IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I		J	J				J		R	IOC,IF
Sport Presentation																			
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.											
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-				F						P	
Announcer Position	3	1	3	-	-	-	-	-			F							P	
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space, consisting of work area, green room, entertainer staging and dressing and prop storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.				F						P	

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Technology Operations																			
Technology Help Desk	20	1	20	25	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support staff & manager.	-				F						P	
Venue Technology Operations (VTO)	25	1	25	32	OCOG Technology Operations area. Operational work space for entire Venue Technology team, including Partners & contractors.	Adjacent to or within Venue Operations Centre (VOC).	Medium security - lockable room. Air-conditioned as office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	-				F					G	P	
OCOG Venue Technology Work Area	-	1	-	-	Work space for Venue Technology Manager, Assistant Venue Technology Manager, Technology Workforce Manager and associated volunteer(s).	-	-	Work space size may be dependent upon workforce per shift.											
AV Contractor Work Area	-	1	-	-	Work space for AV contractors/Technicians.	-	-	Work space size may be dependent upon workforce per shift.											
IT Provider Work Area	-	1	-	-	Work space for IT workforce and "home base" for IT volunteers.	-	-	Work space size may be dependent upon workforce per shift.											
Reprographic Provider Work Area	-	1	-	-	Work space for reprographic contractors/technicians	-	-	Work space size may be dependent upon workforce per shift.											
Mobile Phone Provider Work Area	-	1	-	-	Workspace for mobile phone provider.	-	-	Work space size may be dependent upon workforce per shift. Charging area for Venue Operations workforce phones may be required.											
Wired Communications Provider Work Area	-	1	-	-	Work space for Wired Communications contractors/technicians.	-	-	Work space size may be dependent upon workforce per shift.											
Timing & Scoring/OVR Provider Work Area	-	1	-	-	Work space for OVR/Timing & Scoring contractors/technicians.	-	-	May not be required if adequate working space is allocated in OVR room.											
Radio Distribution Room (RDR)	20	1	20	25	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E and workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).	I			F						P	
Information Technology																			
Computer Equipment Room (CER)	20	1	20	25	Location for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.	I			F					G	P	
Data Local Area Network (LAN) Management Room & Store	25	1	25	32	LAN monitoring room & associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational staff & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces.				F					G	P	

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Telecommunication & Audio Visual																				
Telecomm. Equipment Room (TER) Primary	36	1	36	45	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	Raised flooring is preferable for cabling distribution, but not essential.		I		F							P	
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER.	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.		I		F							P	
Telecomm. Operations & Store	25	1	25	32	Operational space for Telecommunications technical staff and associated storage for spare parts.	Adjacent to TER.	As TER with adequate FF&E to support operational staff & storage.	If located adjacent to TER, power supply boards, UPS units & A/C services can be common for both spaces.		I		F							P	
Audio Control Positions																				
	-	-	-	-	-	-	-	-				F						G	P	
Venue	4	1	4	8	Area within Sport Production, location for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Production. Can be on FOP, in stands or in a booth with view to FOP.	High Security. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	Storage for country anthems.												
Press Conference	4	1	4	8	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), air-conditioned, waterproof. Work space & FF&E for operator.	PA system may also be used for Competition Draw if draw is held in Press Conference room.												
Warm-Up Area	2	1	2	4	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Within Warm-up area for Athletes.	Standard/mains power & FF&E.	-												
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-												
Workforce Break/Dining	2	Varies	Varies	-	Area within Staff Break/Training room where audio control equipment is installed to facilitate meetings/training of large numbers of staff.	Workforce break/dining areas.	Standard/mains power & FF&E.	-												
Video Board Control	4	1	4	8	Location of video control for video board or video projection system. Operations integral with those of Sport Production.	Ideally with Sport Production. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	-				F						G	P	
Wired Communications Control	2	1	2	4	Location of wired communications master control station and support technician. System essential to operations of both Sport Production and Results/FOP management.	Near to or within Sport Production is preferable. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location is located outdoors. Good cable access to FOP, OVR Room, Sport Production, Broadcast Graphics Room & Results Printing required. Workspace & FF&E for one technician, control equipment, spare parts and containers/boxes for equipment.	-				F						G	P	
Temporary PA equipment Room	2 min	1	2 min	4 min.	Temporary location for installation of PA active equipment (amplifiers etc) for venue PA system.	In existing PA equipment room, if applicable. May be located under venue seating/tribunes if existing room not available.	High Security. Fully redundant power (mains & standby generator) to equipment. Good cable access to speaker location and PA/Audio Control position required. Equipment installed in racks. Each rack set is 1000H x 600W x 600 D maximum.	Number of racks will depend on size of system deployed. Generally venues with large geographic area (outdoor) require larger installation and therefore more racks of amplifier equipment.					F						P	

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Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Timing, Scoring and Results Operations																			
Results Data Entry Position	-	-	-	-	Location(s) for event results and/or statistics data entry during competition.	As noted below.	High Security. Fully redundant power (mains & generator) with UPS to all results data entry equipment/workstations. Space & FF&E for all data entry personnel & results management staff.	Adequate weather (rain/sun) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
Field of Play	0	0	0	-	Areas/positions for results and/or statistics on the FOP.	Ideally located with Timing & Scoring Team, Sport Results Team and Officials.	-	May occur as a position on the FOP, or in a room with a view to the FOP.											
Back of House	0	0	0	-	Area back of house where data entry is performed into the OVR/Results System.	Sport Specific, but can be in warm-up or call areas.	-	Generally occurs Back of House, in Sport location.											
Timing and Scoring Position	SEE OVR Room			-	Location(s) for event timing & scoring personnel & equipment during competition.	Sport Specific. However, all locations must have view to FOP	High Security Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards & OVR room. Space & FF&E for operators and equipment. Adequate weather (rain/sun) protection for equipment/workstations to be provided.	-	I	I	I	F						R	IF, Swatch
Field of Play (FOP)	0	0	0	-	-	-	-	-											
Control Room	0	0	0	-	-	-	-	-											
On Venue Results (OVR)	-	-	-	-	Location is central compilation point for results operations & Timing & Scoring Operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	Easy access to FOP critical for technical and results staff. View of Finish Line required.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Space & FF&E required for high density of computer workstations, racks for servers and working space for technicians, operators and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or venues where two sports occur concurrently will require more space for additional OVR equipment.				F						P	
OVR Provider Work Area	30	1	30	38	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO/CIS/PRD etc).	Ideally adjacent to IT provider work area.	Cable access to transponder/transition areas & start position.	-											
IT Provider Work Area	20	1	20	25	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-											
Scoreboard Control	4	1	4	8	Location of scoreboard control operations. Operations integral with those of Sport Production, data provided from OVR System. Space for both Control and Interface workstations & 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.				F					G	P	
Scoreboard Control	2	1	2	4	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator & workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-											
Scoreboard Interface	2	1	2	4	Area for interface equipment (PC workstations) linking OVR system & Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-											

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Results Printing (PRD)	Varies	1	Varies	-	Location for hard copy results production & distribution. Location of high intensity work involving many staff preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area & position for the Print Distribution Workstation (IDS interface) equipment and operator.	Near/adjacent to Press Workroom, access to Press Tribunes, Broadcast Commentary Positions, Sport Information Desk, Doping & Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specification. Space & FF&E required for equipment and operational staff as well as space for 1 x pallet of paper to support print/copy operations.	-	I	I	I	F						R	IF, Swatch
TV Graphics Interface	3	1	3	6	Location where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operators & good cable access to OVR room.	-				I		F				P	
Technology Storage																			
Technology General Storage	15	1	15	18	Location for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F						G	P
IT Bulk Storage	30	1	30	38	Storage area for all spare IT equipment & associated boxes/containers.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to IT provider at all times.				F						G	P
Reprographic Primary Storage Area	12	1	12	15	Primary storage/technical area in-venue for reprographic provider. Storage for spare parts, additional devices and consumables serving primarily Results Printing Operations.	In venue location adjacent to, or within Results Printing Room.	High Security - lockable. Standard office environment with standard power. Workspace & FF&E for one technician.	-	I		F							G	P
Reprographic Bulk Storage Area	15	1	15	18	Storage area for bulk paper allocated to venue (multiple pallets).	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of paper required to support venue operations.				F						G	P
Timing and Scoring Workshop	10	1	10	13	In venue storage & workshop for timing equipment, spare parts & small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.	-	I		F							G	P
Timing & Scoring Bulk Store	30	1	30	38	Storage area for large crates & containers used for scoreboards and bulk equipment. Must be accessible to OVR provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of Timing & Scoring equipment deployed to venue. May be combined with Timing & Scoring Workshop if location & size of space meet requirements for venue.	I		F							G	P
Audio Visual Bulk Store	15	1	15	18	Storage area for large crates & containers used for video boards, PA equipment & TV boxes. Must be accessible to Video/Public address provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of audio/video equipment deployed to venue.				F						G	P
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closet. CCFs are to be installed in locations that allow for easy access for service technicians and which allow for easy cable access both from TER room and to user device locations.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Work Room.	High Security - lockable and weatherproof. May require fan or dedicated A/C depending on room location and/or configuration. Fully redundant power (mains and generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.	I		F							P	
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of power from data/voice and audio-visual cabling.	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in an manner which allows for easy access and repair/replacement. Legacy installations are to be installed as permanent while temporary (overlay) should be installed using methods which are easily installed and removed minimising potential damage to existing venue.				F						P	
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.	-	-	-											
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.	-	-	-											
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.	-	-	-											

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CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	-												
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	-												
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-												
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-												
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-												
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-												
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-												
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing and Scoring/OVR contractor.	I			F							P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.												
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F							P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the videoboard. Required for outdoor venues where the videoboard cannot be suspended from ceiling structure.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each videoboard.												
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Production on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F						G	P	
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to/from audio/PA amplification system and/or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend PA speakers from venue ceiling structure.	-	-	-												
Mobile Phone Infrastructure (antenna)	-	Varies	-	-	Infrastructure required to support installation of additional radio antenna & mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to/from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.	I			F						G	P	

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Ticketing																			
Ticket Box Office	40	1	40	100	An area at the venue where Olympic tickets are sold.	Adjacent to the secure perimeter; near the spectator entry point of the venue	Gross area includes internal & external queue.	Assumes container unit with disabled access to internal and external service window. Dependant upon venue layout and footprint, spectator access point locations.											P
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	15	1	15	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s)	15	1	15	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	25	1	25	50	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.											P
Driver Staging	80	1	80	150	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.											P
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside venue secure perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	20	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-											P
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from Host City, based on vehicle/bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J								P
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J								P
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F							P
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.											G IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.											G IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.	I		F								G IOC
Spectator and Staff Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.											P
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.	I		F								P
Accessible	-	-	-	-	-	-	-	Part of Spectator total.											P
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Surface areas paved or gravel.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have drop-off in close proximity to accredited entry point and then driver will park.			I	F							P
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.											P
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.											P
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-			J	J							P
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes vehicle circulation.											P
Emergency Services	-	-	-	50 (each)	-	Generally located inside the Secure Venue Perimeter.	-	Includes vehicle circulation.											P
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.											P
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.	-	I		F								P

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Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.		I			F					P	
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.											
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-	-											
Venue Development																			
Site Management Compound	503	1	503	650	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Dependent upon venue footprint, extent of temporary works and number of contractors.					F					P	
Site Management Area	60	1	60	-	-	-	Enclosed space.	-											
Site Manager & Assistant Site Manager(s) Work Area	12	1	12	-	Work and meeting area for the Site Manager and Assistant Site Manager.	-	-	-											
Site Administration Desk & Work Area	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-	-											
Response Team & Vendor Staging	24	1	24	-	On-site permanent and temporary facilities for specialty staff and general labor crew to be on-call.	-	-	-											
Secure Storage - Site Management	12	1	12	-	Area for storage.	-	-	-											
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.	-	Enclosed space. Area for office, staging and a secure storage area.	Assumes container units or existing space. Contractor usually installs container units at their own cost.											
Sign/Look Staging, Work Space/Secure Storage	50	1	50	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	-	Assumes container unit or existing space.											
Material Warehouse/Construction Work Space	80	1	80	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	-	Enclosed space.	Assumes tent or canopy with 2 side walls. Area for carpentry, painting and general construction. Storage for non-weather proof materials.											
Vendor Secure Storage	60	1	60	-	Area for containers, usually provided by the various temporary construction sub-contractors.	-	Enclosed space.	Assumes container units or existing space.											
Materials Staging Area	50	1	50	-	Area for the off-loading and loading of bulk construction materials.	-	Area only.	-											
Exterior Storage Area	50	1	50	-	Outdoor storage of material and products.	-	Area only.	Weatherproof area for large and bulk materials.											
Vehicle Staging	90	1	90	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	-	Area only.	Service, Repair & Specialty vehicles.											
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											

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Venue Management																			
Venue Operations Centre (VOC)	60	1	60	90	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Dependent upon venue capacity and venue layout.										P	
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-					F						
Assigned Desks	20	1	20	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Space and Storage	18	1	18	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	40	1	40	50	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.					F					P	
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	24	1	24	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	8-10 people.											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	150	1	150	180	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre.	Enclosed space.	Assumes existing space or tent. Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.					F					P	
Workforce																			
Workforce Area	150	1	150	180	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.					F					P	
Check-In Area	96	1	96	-	Area to log-in venue staff and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Area	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	335	1	335	400	The space where workforce meals are served and where workforce can break during their shift.	A location that will provide easy access to all workforce for breaks and meals; will vary according to venue layout/size.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon venue workforce numbers.					F					P	
END OF DOCUMENT																			

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Accreditation																							
Venue Accreditation Office	50	1	50	125	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.										P	-				
Day Pass Issue & Problem Resolution Desk	15	1	15	-																			
Work Area	15	1	15	-																			
Manager Desk or Office & Storage	12	1	12	-																			
Waiting Area	8	1	8	-																			
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	-	Enclosed space. Required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.					F					P	-				
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.							F								
Broadcast																							
Broadcast Compound	-	1	-	3500	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements.															
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Gross area includes snow removal access. Assumes container unit.											R	IOC			
Broadcast Manager Office	12	1	12	-		-	-	-	-														
Work Room, Assigned and Unassigned Desks	48	1	48	-		-	-	-	-														
Technical Operations Centre	40	1	40	100	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.											R	IOC			
Broadcast Catering	140	1	140	180		Located inside Broadcast compound.	Enclosed space.	-	-														
Kitchen and Prep	20	1	20	-		-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.														
Buffet Line and Dining	120	1	120	-	Dining and break area for broadcast personnel.	-	-	Located in temporary structure. Assumes container/trailer unit or tent.															
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements. Located in temporary structure. Assumes container/trailer unit or tent.															
Work Area(s)	20	Varies	Varies	-		-	-	Enclosed space.	-														
Mobile Unit(s)	65	Varies	Varies	-		-	-	Enclosed space.	-														
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters. Located in temporary structure. Assumes container/trailer unit or tent.															
Work Area(s)	20	Varies	Varies	-		-	-	Enclosed space.	-														
Mobile Unit(s)	65	Varies	Varies	-		-	-	Enclosed space.	-														
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.															
Toilets	1.5	8	12	36	Toilet units designated for broadcast personnel.	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.															
Commentator Control Room (CCR)	60	1	60	75	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in close proximity to commentator position area.	Enclosed space with incoming television cable.	Assumes existing space or container unit.											R	IOC			
Broadcast Information Office (BIO)	20	1	20	25	Space for broadcast management and team meetings.	Located near commentator positions and CCR	Enclosed space.	Assumes existing space or container unit.											R	IOC			
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-											G	IOC			
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J								R	IOC			
Mixed Zone	20	1	20	170	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Adjacent to the FOP.	<u>Gross area</u> includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I	I	J								R	IOC, IF			
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in seating areas with view to FOP.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Outdoor commentator positions should have the option of cover for protection from various weather conditions (e.g. sun, rain). Space for commentator positions may vary according to actual venue/permanent seating setup.											R	IOC			

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Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	Located at the rear of the commentator grouping so as not to disrupt the FOP view of other commentator positions.	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	A com-cam position equals 2 adjacent commentator positions.			I	J			J	I			
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions.	1 position = uses 1 seat in existing seating bowls.	-			I	J			J	I		R	IOC
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval. Space for camera positions may vary according to actual venue/permanent seating setup.	J		I	J			J	J		R	IOC
Camera Position - Other	4	25	100	225	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	Space for camera positions (e.g. crane camera) may vary according to actual venue/permanent seating setup. All positions/functions need approval by the FIVB.	I		I	J			J	I		R	IOC
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-				J	I		J			G	IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	See also Technology requirements.				J	I		J			G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in Back of House areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.				J	I		J			G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography	J			J	I		J	I		R	IOC
Catering																			
Catering Compound	565	1	565	850	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity.										P	
Work Areas - Catering Management	28	1	28	-		-	Enclosed space.	Gross area includes snow removal access.											
Organising Committee Catering Manager	-	-	-	-		Located in Venue Operations Centre.	See Venue Management - VOC.	Assumes existing space or container.											
Catering Contractor	16	1	16	-		-	-	-											
Beverage Contractor	12	1	12	-	Operational work space(s).	-	-	-											
Dry, Cold and Ice Storage	38	6	228	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.											
Vehicle Staging	90	1	90	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-											
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-											
Kitchen and Preparation Area	80	1	80	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.											
Uncovered Storage	75	1	75	-	Outdoor storage of material and products.	-	Area only.	-											
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilets should be provided.											
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit.	-											
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container's). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity and level of catering activity.			I		F					P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	See Look for details.	-			I		F					P	

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Ceremonies																			
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-			I	F						P	
Ceremonies Staging	36	1	36	45	For the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule; to coordinate location of podium, procession, and recession route, and location of flagpoles.	Adjacent to or close to FOP.	Consists of coordinator work space with area for anthem storage, secure storage, preparation and dressing area; see below for additional details.	Assumes existing space or container.			I	F						P	
Manager Desk	6	1	6	-	Workspace for Manager.	-	-	-											
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.											
Presenters, Medal/Flower staging, Secure medal and flag storage	22	1	22	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format. Medals storage is not required for those venues where the medal ceremony will take place at another location.											
Presenter Preparation and Dressing	4	2	8	-	A dressing and preparation area for Presenters.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-											
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	Close to FOP.	Limited use, may be shared with other space. See Sport Presentation.	-		I	F							P	
Awards Podium Storage	12	1	12	15	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	-			I	F						P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.	I		J	J				J	G	R	IOC
Cleaning and Waste																			
Cleaning & Waste Compound	252	1	252	350	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependant upon venue capacity.				F						P	
Vehicle Staging	72	1	72	-	Parking area for collection vehicles which generally remain inside the venue.	-	Area only.	-											
Sorting Area	72	1	72	-	Area for sorting waste.	-	Area only.	-											
Waste & Recycle Containers	15	4	60	-	Area in front of waste and recycle bins where material is separated for containment.	-	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).											
Compactor Unit	25	Varies	Varies	-		-	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.											
Equipment Supply & Storage	15	2	30	-	Space for cleaning equipment and paper product.	-	Enclosed space.	Assumes container unit.											
Contractor Office	18	1	18	-	Space for management and workforce staging.	-	Enclosed space.	-											
Doping Control																			
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	-	J	J	J							R	IOC
Waiting Area/Reception	26	1	26	30	Area where athletes check-in and wait prior to testing.	-	-	-											
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).											
Blood Processing Room(s)	15	Varies	Varies	20 (each)	Area where athlete blood samples are provided and sealed	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).											
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).											
Office / Storage	12	1	12	15	Wash basin for hand sanitisation.	-	Enclosed space. Secure storage.	-											
Office / Storage	12	1	12	15	Work and storage space for Doping Manager.	-	Enclosed space. Secure storage.	-											
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-	I		J	J						R	IOC

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.					F					P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of workforce pre-shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large group.	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.					F					P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.										P	
Information Desk	-	-	-	-	-	-	-	-											
Lost and Found	-	-	-	-	A holding area for items found in the venue.	-	-	-											
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spectators.	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	-	-	Will depend on level of service at venue.					F					P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes; located between screening/search area and spectator plaza.	Total number generally 50% of security screening positions.					F					P	
Stroller Storage	Varies	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	In close proximity to seating area.	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.					F					P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.					F					P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators					F					P	
Spectator Shade and Shelter	Varies	Varies	Varies	72 (each)	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and spectator service amenities.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.					F					P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-					F					P	
Spectator Toilets	1.5	Varies	Varies	5 (each) 6 (per 20 toilets)	Toilet units designated for spectators.	Located in FOH, close proximity to seating and spectator amenities.	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.					F					P	
Hand Wash Stations	1	Varies	Varies		A chemical unit used in the absence of potable water.	Located in FOH, close proximity to seating and spectator amenities.	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.					F					P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Finance																				
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I		F						P		
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Generally located inside venue perimeter and outside venue perimeter.	Area only.	Dependant upon venue capacity.												
Language Services																				
Work Area / Desk	20	1	20	25	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre.	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-		J	J			I				G	IOC	
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference needs.	-		J	J			I				G	IOC	
Logistics																				
Logistics Compound	-	1	Varies	650	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access. Secondary Compound Area - an additional compound area may be necessary for staging or storage of equipment that is in close proximity to FOP and/or the finish area.											P	
Logistics Centre	60	1	60	-	-	-	Enclosed space.	Assumes container units or tent.												
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-												
Team Staging/Work Area	33	1	33	-	Space for staging and a work area.	-	-	-												
Secure Storage & Equipment Sign-out	15	1	15	-	Area for storage.	-	Storage for tools.	-												
Warehouse Storage	90	1	90	-	Storage area for furniture, fixtures, and equipment (FF&E).	-	Enclosed space.	Assumes tent												
Storage Yard	75	1	75	-	Outside storage area within compound.	-	Area only.	-												
Vehicle Staging	100	1	100	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-												
Fuel Tank(s)	9	Varies	Varies	25 (each)	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.												
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.												
Material Transfer Area (MTA)	-	1	-	575	Generally for deliveries to the venue that may take place after hours or not within the logistics delivery window period.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.											P	
X-Ray Area	36	1	36	72	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.												

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Look of the Games																			
Work Area and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.										P	
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J					J		R	IOC
National Olympic Committee (NOC) Flags	Varies	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events) and competition format.	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.			J	J				J		R	IOC
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and back of locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J				J	G	R,P	IOC, IF
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals.	-											
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH).	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.		I	J	J				J	G	R	IOC, L
Backdrop - Press Conference Room	2.2 x 6	-	-	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F		I	I				
Medical Services																			
Athlete Medical	65	1	65	100	An area where Medical provides services to athletes competing at the venue.	Located in Back of House within the accredited athlete area.	Enclosed space.	Assumes container or existing space.	J	J	J							R	IF
Reception & Waiting	12	1	12	-	Area where athletes check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Physiotherapy Area(s)	8	2	16	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J							S	IF
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.											
Spectator Medical	50	1	50	100	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed space. 1 per 20,000 spectators.	Assumes container unit or existing space.		I	F	I						P	
Reception & Waiting	12	1	12	-	Area where spectators check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	12	1	12	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Triage Station	36	1	38	72	Additional space to treat minor medical needs of spectators.	Located in the Front of House.	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.		I	F	I						P	
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.				F	I					P	
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Area only. Paved, graveled or grass area with fence, barricade or rope enclosure.	-			F	I						P	

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Merchandise																					
Office, Cash Room & Work Area	12	1	12	15	An area to manage the retailing of all Olympic merchandise inside the venue.	-	Enclosed space with secure entry.	Assumes container unit or existing space.					F					P			
Storage	15	2	30	35		-	-	Assumes storage containers or existing space.					F						P		
Program Sales Stands/Booths	1	1	1	2		-	Area only.	Units provided by vendor. Quantity and location decided by vendor and OCOG.					F						P		
Merchandise Points of Sale (POS)	6	Varies	Varies	18 (each)		Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.	Gross area is per each P.O.S. and includes service area and queue.					I		F			P		
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-					I	J	J			G	R	IOC	
Olympic Family Services																					
Olympic Family Lounge	240	1	240	500	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes tent.					I		F			I	G	G	IOC
Welcome Desk and Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-	-													
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.	-													
Staff/Volunteer Room and Storage	12	1	12	-	On-call waiting area for Protocol staff and equipment storage.	-	-	-													
Dining and Lounge	140	1	140	-	Area for dining and lounge.	-	-	-													
Preparation/Buffer set-up/Beverage Area	70	1	70	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Staff/Volunteer, Athlete, Media)	-													
Toilets	30	1	30	60	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	4 female, 4 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided											P		
Protocol flags	-	-	-	-	-	-	See Look of the Games.	-											R	IOC	
Press Operations																					
Venue Media Centre (VMC)	450	1	450	650	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Confer	Close proximity to Press Tribune, Press Conference room, and Mixed Zone area.	Enclosed space for 120 press and 30 photographers.	Assumes tent.											R	IOC	
Reception & Information Desk	18	1	18	-	Welcome desk at the entrance, for information distribution.	-	-	-													
Storage	4	1	4	-	Equipment storage.	-	-	-													
Press Manager Office	12	1	12	-	Operational work space.	-	-	-													
Photo Manager Office	12	1	12	-	Operational work space.	-	-	-													
Olympic News Service (ONS) Work Room or Area	25	1	25	-	Operational work space.	-	Enclosed space.	-													
Info Stations	20	1	20	-	Computer stations and printers.	-	-	-													
Press Work Room or Area	200	1	200	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.													
Photo Work Room or Area	55	1	55	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.	-													
Photographers Check-in & Photo Bib Distribution	9	1	9	-	Area where photographers register and receive/return photo bibs.	-	-	-													
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.													
Lounge/Catering Prep	70	1	70	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-	-													
Toilets	1.5	8	12	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided													

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IF Press Delegate Room	-	-	-	-	-	-	See International Federation section for details.	-											
Press Conference Room	150	1	150	280	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I			F						R	IOC
Seating Area	100	1	100	-	An area for accredited press.	-	Seats and standing room.	-											
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3.6 m table, 8 chairs & step and repeat backdrop.	-											
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-											
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-											
Backdrop - Press Conference Room	-	-	-	-	-	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	See Look for details.	-				F							
Mixed Zone	20 linear mtrs.	1	20 linear mtrs.	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	-	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I		I	F						R	IOC,IF
Press Tribune	-	-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	Easy access from Venue Media Centre and direct access if possible to Mixed Zone.	Tabled seating is fitted out with telephones, television monitors, power and other press facilities (indoor venues). For outdoor venues, these services will exist in VMC.	-											
Press Tabletop Seating	Varies	Varies	Varies	-	-	Easy access from Venue Media Centre and direct access if possible to mixed zone.	In an existing stadium or seating area: 1 seat wide (folding chairs at 60 cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50 cm deep tabletop per position, each position = 2 stadium seats. Temporary Stands: 1 seat (folding chairs at 60 cm spacing) x 2 rows deep of proposed seating system (normally 150 cm-170 cm deep).	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.			I	F						R	IOC,IF
Press Seating (non-tabled)	Varies	Varies	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.			I	F						R	IOC,IF
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided											
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-											
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	In close proximity to FOP.	Peak photo numbers for Volleyball estimated at 100. 60cm wide x 90cm deep per position, multi-row areas require 60cm riser per row.	Power, Wireless and data cabling needed to photo positions on FOP.	J		I	J						R	IOC, IF
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Normal seating areas.	See Venue Seating for quantities by sport.	Seating areas are generally not applicable for outdoor venues.	I		I	F						G	IOC
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation			
Security																						
Security Command Centre	120	1	120	145	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.										P				
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-														
Security Work Area	15	1	15	-	An area for additional security agencies.	-	-	-														
CCTV Surveillance & Video Desk	15	1	15	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-														
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.														
Radio Dispatch & Monitoring	15	1	15	-	An area for the monitoring and control of security communication and the distribution/return of radios.	-	-	-														
Work Room	50	1	50	-	Open plan of work stations designated for security personnel.	-	-	-														
Secure Storage	10	1	10	-	An area for Security equipment storage.	-	Enclosed, secure space.	-														
Dog Cage(s)	4	Varies	Varies	8 (each)	Holding area for security dogs.	-	Area only for enclosed portable units (e.g. cages).	Dependent upon Host City/Country / Risk Assessment.										F				
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-												P		
Briefing and Break Area / Staging Area	140	1	140	170	Area for briefing staff before and after shifts.	-	Enclosed space.	Assumes tent.														
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.												P		
Vehicle Screening & Sanitisation Area	569	1	569	800	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.												P		
Vehicle Queue	175	1	175	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-														
Oversized Vehicle Queue	140		140	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-														
Vehicle Sanitisation & Wanding Areas	150		75	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.														
Oversized Vehicle (Truck & Bus) Sanitisation	70		70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-														
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.														
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Enclosed space for staging and break.	-														
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.														
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the venue secure perimeter and/or venue screening area for constituents.	-	Dependent upon spectator capacity and venue design.												F	G	P
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-														
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-	I			F								P		
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-	I			F								P		
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.	I	I		F								P		

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Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the venue secure perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.										R	IOC
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the venue secure perimeter.	Enclosed space for screening/search area positions.. Net area for each screening position will accommodate the following: 4 Wanding Stations, OR 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue. Dependent upon spectator capacity and venue design.											
Athlete / Team	18	1-2	18-36	36-72	-	BOH.	-	-				F						R	IOC
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with Athlete and/or Olympic Family.				F						G	IOC
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with TO, ENG and/or Press.				F						P	
Broadcast	18	1-2	18-36	45-90	-	BOH.	-	If possible, direct access from outside venue perimeter into Broadcast Compound.											
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	BOH; located in close proximity to Venue Broadcast Compound.	-	-											
Press and Photographer	18	1-2	18-36	36-72	-	BOH; located in close proximity to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast).	If possible, direct access from outside venue perimeter into Venue Media Centre.				F	I						
Workforce (Staff/Volunteer/Contractor/Vendor)	18	2-3	36-54	90-135	-	BOH or possibly FOH.	-	-				J	J					P	
Spectator / Sponsors	18	Varies	Varies	54	-	FOH.	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-	I			F						P	
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.				F		I				P	
Exception Gate	Varies	Varies	Varies	-	Access gate for designated accredited personnel.	FOH; located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.				F						P	
X-ray of bags	36	Varies	Varies	72 (each)	Device for screening bags/equipment coming into the venue.	FOH and BOH.	Covered.	-				F	I					P	
Venue Perimeter Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	Dependent upon spectator capacity and venue design.											
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	1m to 3m width, sometimes used as a secondary service vehicle exit point.	-											
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m each, number varies per concourse design.	-											
Workforce (Staff/Volunteer/Contractor/Vendor)	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	Size dependant upon total workforce numbers.				I	F				G	P	
Sponsor Services																			
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.				I	F					P	

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Sport Operations																			
Competition Management	75	1	75	115	A work area for Sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located close to Athlete Area and FOP; may be co-located within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space.	I			F						P	
Competition Manager & Asst. Manager Desks	12	1	12	-	An area for the Manager and Assistant(s) Manager.	-	-	-											
Assigned Work Area	24	1	24	-	Open plan of work stations designated for Sport personnel.	-	-	-											
Hot Desks	15	1	15	-	Shared work stations.	-	-	-											
Work Area	24	1	24	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-											
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-											
Sport Information	10	1	10	20	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located in Athlete Lounge.	Enclosed space with waiting area and seating.	Includes: information boards, pigeon holes, Info & Help Desk, work area, info terminal stations & storage.	J			J						R	IF
Athlete Lounge	100	1	100	125	An area where athletes can relax at the venue while not training or competing.	Located in Athlete Area.	60-70 people.	Includes: seating area, lounge, Info & Help Desk, info terminal stations.	J			J						R	IF
Athlete Dressing, Locker, Shower, Toilet	40	4	160	220	Change-room facilities to accommodate athletes at the venue during competition and training.	Located in Athlete Area.	Enclosed space. Separate male and female facilities.	Assumes container units or existing space. Each room must have 5 showers, 3 toilets, 1 massage table, 15 lockers. Storage area for athlete/team equipment.	J			J						R	IF
IF & Sport Meeting Room	64	1	64	75	Meeting facility at the venue for the International Federation and Competition Management.	Located in close proximity to the IF Area and Competition Management area.	Enclosed space.	Shared meeting room area between IF & Sport to serve various meeting needs.	J			J						G	IF
Sport Equipment Storage	40	1	40	50	Storage for athlete/team sport equipment.	Located in change-room area.	-	-	J			J	I					R	IF
FOP Equipment Storage	30	1	30	40	Storage of equipment required for competition.	Located adjacent to FOP or within close proximity.	-	-	I			F	I					R	IF
FOP Maintenance Equipment Storage	30	1	30	40	Storage of equipment required for maintaining the Field of Play.	Located adjacent to FOP or within close proximity.	-	-	I			F	I					R	IF
Sport Entertainment Room	-	-	-	-	-	-	See Sport Presentation for details.	-											
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	Refer to FIVB requirements and FIVB Court layout/design for all technical details.	-											
Playing Surface Dimensions or Area	40 x 27	1	1080	-	-	-	Per venue. Refer to FIVB requirements and FIVB Court layout/design for all technical details.	-	F			I						R	IF
Vertical Height Requirement	12.5m	1	12.5m	-	-	-	-	-	F			I	I					R	IF
Surface	-	1	-	-	-	-	Flooring / Surface requires homologation by the FIVB	-	J			J	I					R	IF
Orientation	-	-	-	-	-	-	Refer to FIVB requirements and FIVB Court layout/design for all technical details.	-	J			J	I					R	IF
Sports Lighting - Technical	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

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Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	-	Refer to FIVB requirements and FIVB Court layout/design for all technical details.	-												
Warm-up Surface Dimensions or Area	24 x 15	2	720	-	-	Adjacent to Main Court. One to two minutes walking distance.	-	-	J		J							R	IF	
Vertical Height Requirement	7m	1	7m	-	-	-	-	-	J		J	I						R	IF	
Surface	-	2	-	-	-	-	Flooring / Surface requires homologation by the FIVB	-	J		J	I						R	IF	
Stretching Area	16	2	32	40	An area where athletes can stretch prior to competition.	-	Refer to FIVB requirements.	-	J		J	I						R	IF	
Camera Positions - IF and Teams Athlete / Team Seating	20	1	20	25	-	Seating area of venue.	-	Location may opposite to broadcast camera positions (e.g. crane camera); approval of location/position by FIVB.	I			F						R	IF	
Same Sport	-	Varies	-	-	-	A designated seating area for athletes.	-	-	J		I	J						R	IOC,IF	
Different Sport	-	Varies	-	-	-	-	-	-	I		I	F						R	IOC	
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	May be required for Sport Staff use. Quantity varies according to athlete numbers.				F							P	
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	Required if FOP is not located near Athlete Area.	Assumes temporary units. Quantity varies according to athlete numbers.				F							P	
International Federation																				
IF Area	70	1	70	90	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located in close proximity to accredited seating areas, control committee offices, Competition Management Offices.	Enclosed space.	Assumes container units or existing space.	I		I	F							R	IF
IF President's Office	15	1	15	-	-	-	-	-	I		I	F							R	IF
IF Secretary - General/Executive Director's Office	15	1	15	-	-	-	-	-	I			F							G	IF
Reception, Secretariat, Waiting & Work Area	40	1	40	-	-	-	-	-	I			F							G	IF
President Meeting Room	-	-	-	-	-	-	See IF & Sport meeting room.	-	I			F							G	IF
IF Press Delegate & Photographer Room	24	1	24	28	An area designated for the IF press delegate and photographer.	Located within Venue Media Centre.	-	-	I			F							G	IF
Control Committee Meeting Room	60	1	60	90	-	Close proximity to Competition Management and FOP.	-	-	I			F							G	IF
Appeal & Jury Room	24	1	24	30	This space is utilised for the resolution of protests and appeals after competition.	-	Enclosed space.	-	I			F							R	IF
Officials Meeting Room	40	1	40	45	Area for officials to conduct meetings.	Located close to the International Officials Lounge and possibly having a temporary partition for the Referee Manager office	Officials (Referees, line judges and scorers) Meeting Room.	Assumes container units or existing space.	I			F							R	IF
Technical Delegates Office & Work Area	15	1	15	20	Office area for Technical Delegates.	-	Enclosed space. 2 Technical Delegates.	-	I		I	F							R	IF
Lounge - Officials	100	1	100	120	Area for IF Officials lounge (Referees, Judges, etc.).	Adjacent to IF offices and close proximity to FOP.	Enclosed space.	Assumes container units or existing space.	I		I	F							R	IF
Officials Locker Room, Shower, Toilet	30	2	60	100	A change area for officials.	-	Enclosed space.	-	I			F							R	IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I		J	J							R	IOC,IF
Sport Presentation																				
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.												
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-				F							P	
Announcer Position	3	1	3	-	-	-	-	-				F							P	
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space, consisting of work area, green room, entertainer staging and dressing and prop storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.				F							P	

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Technology Operations																			
Technology Help Desk	15	1	15	18	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support staff & manager.	-				F						P	
Venue Technology Operations (VTO)	25	1	25	32	OCOG Technology Operations area. Operational work space for entire Venue Technology team, including Partners & contractors.	Adjacent to or within Venue Operations Centre (VOC).	Medium security - lockable room. Air-conditioned as office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	-				F					G	P	
OCOG Venue Technology Work Area	-	1	-	-	Work space for Venue Technology Manager, Assistant Venue Technology Manager, Technology Workforce Manager and associated volunteer(s).	-	-	Work space size may be dependent upon workforce per shift.											
AV Contractor Work Area	-	1	-	-	Work space for AV contractors/Technicians.	-	-	Work space size may be dependent upon workforce per shift.											
IT Provider Work Area	-	1	-	-	Work space for IT workforce and "home base" for IT volunteers.	-	-	Work space size may be dependent upon workforce per shift.											
Reprographic Provider Work Area	-	1	-	-	Work space for reprographic contractors/technicians	-	-	Work space size may be dependent upon workforce per shift.											
Mobile Phone Provider Work Area	-	1	-	-	Workspace for mobile phone provider.	-	-	Work space size may be dependent upon workforce per shift. Charging area for Venue Operations workforce phones may be required.											
Wired Communications Provider Work Area	-	1	-	-	Work space for Wired Communications contractors/technicians.	-	-	Work space size may be dependent upon workforce per shift.											
Timing & Scoring/OVR Provider Work Area	-	1	-	-	Work space for OVR/Timing & Scoring contractors/technicians.	-	-	May not be required if adequate working space is allocated in OVR room.											
Radio Distribution Room (RDR)	15	1	15	18	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E and workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).	I			F						P	
Information Technology																			
Computer Equipment Room (CER)	20	1	20	25	Location for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.	I			F					G	P	
Data Local Area Network (LAN) Management Room & Store	25	1	25	32	LAN monitoring room & associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational staff & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces.				F					G	P	

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Telecommunication & Audio Visual																			
Telecomm. Equipment Room (TER) Primary	36	1	36	45	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	Raised flooring is preferable for cabling distribution, but not essential.	I			F						P	
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.	I			F						P	
Telecomm. Operations & Store	25	1	25	32	Operational space for Telecommunications technical staff and associated storage for spare parts.	Adjacent to TER.	As TER with adequate FF&E to support operational staff & storage.	If located adjacent to TER, power supply boards, UPS units & A/C services can be common for both spaces.	I			F						P	
Audio Control Positions	-	-	-	-	-	-	-	-				F					G	P	
Venue	4	1	4	8	Area within Sport Production, location for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Production. Can be on FOP, in stands or in a booth with view to FOP.	High Security. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	Storage for country anthems.											
Press Conference	4	1	4	8	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), air-conditioned, waterproof. Work space & FF&E for operator.	PA system may also be used for Competition Draw if draw is held in Press Conference room.											
Warm-Up Area	2	1	2	4	Athletes' call up system.	Warm-up Area/Court	Standard/mains power & FF&E.	-											
Athlete Briefing	2	1	2	4	PA systems required to facilitate briefings to athletes. Space required for amplifier/microphone.	Within Athlete Briefing area for Volleyball.	Standard/mains power & FF&E.	-											
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-											
Workforce Break/Dining	2	Varies	Varies	-	Area within Staff Break/Training room where audio control equipment is installed to facilitate meetings/training of large numbers of staff.	Workforce break/dining areas.	Standard/mains power & FF&E.	-											
Video Board Control	4	1	4	8	Location of video control for video board or video projection system. Operations integral with those of Sport Production.	Ideally with Sport Production. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	Separate camera for spectators entertainment to feed the video board.	I			F					G	P	
Wired Communications Control	2	1	2	4	Location of wired communications master control station and support technician. System essential to operations of both Sport Production and Results/FOP management.	Near to or within Sport Production is preferable. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location is located outdoors. Good cable access to FOP, OVR Room, Sport Production, Broadcast Graphics Room & Results Printing required. Workspace & FF&E for one technician, control equipment, spare parts and containers/boxes for equipment.	-				F					G	P	
Temporary PA equipment Room	2 min	1	2 min	4 min.	Temporary location for installation of PA active equipment (amplifiers etc) for venue PA system.	In existing PA equipment room, if applicable. May be located under venue seating/tribunes if existing room not available.	High Security. Fully redundant power (mains & standby generator) to equipment. Good cable access to speaker location and PA/Audio Control position required. Equipment installed in racks. Each rack set is 1000H x 600W x 600 D maximum.	Number of racks will depend on size of system deployed. Generally venues with large geographic area (outdoor) require larger installation and therefore more racks of amplifier equipment.					F					P	

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Timing, Scoring and Results Operations																				
Results Data Entry Position	-	-	-	-	Location(s) for event results and/or statistics data entry during competition.	Refer to FIVB requirements and FIVB Court layout/design for exact locations.	High Security. Fully redundant power (mains & generator) with UPS to all results data entry equipment/workstations. Space & FF&E for all data entry personnel & results management staff.	Adequate weather (rain/sun) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch	
Field of Play - Statistics Tables	2	2	4	8	Areas/positions for statistics calling & data entry into OVR system.	Positions located at either end of FOP with sport statisticians.	Cable pathway to Technical Table.	May occur as a position on the FOP, or in a room with a view to the FOP.												
Field of Play - Technical Table	3	1	3	6	Area/position for results data entry & ball speed gun control operations.	Position located at Technical Table on FOP with sport results & sport officials.	Cable Pathway to Statistics Tables , Official Table, sport specific scoreboards, speed guns & OVR Room.	Generally occurs Back of House, in Sport location.												
Timing and Scoring Position	-	-	-	-	Location(s) for event timing & scoring personnel & equipment during competition.	Sport Specific. However, all locations must have view to FOP	High Security Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards, ball speed guns & OVR room. Space & FF&E for operators and equipment. Adequate weather (rain/sun) protection for equipment/workstations to be provided. If a second court is required , data entry positions to be duplicated as Main Court.	Refer to FIVB requirements and FIVB Court layout/design for exact locations.	I	I	I	F						R	IF, Swatch	
Field of Play - Official Table	2	1	2	4	Area on Official table for judge/referee and scoring & timing equipment.	Position located on FOP with sport officials.	Cable pathway to Technical Table.	-												
On Venue Results (OVR)	-	-	-	-	Location is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	Easy access to FOP critical for technical and results staff.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Space & FF&E required for high density of computer workstations, racks for servers and working space for technicians, operators and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or venues where two sports occur concurrently will require more space for additional OVR equipment. If a second court is required, it is possible that additional OVR space may be required near the court. This would be a reduced size OVR room with minimal equipment deployed.										P		
OVR Provider Work Area	20	1	20	25	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO/CIS/PRD etc).	Ideally adjacent to IT provider work area.	-	-												
IT Provider Work Area	20	1	20	25	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-												
Scoreboard Control	-	-	-	-	Location of scoreboard control operations. Operations integral with those of Sport Production, data provided from OVR System. Space for both Control and Interface workstations & 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.	I	I		F						G	P	IF
Scoreboard Control	2	1	2	4	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator & workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-												
Scoreboard Interface	2	1	2	4	Area for interface equipment (PC workstations) linking OVR system & Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-												

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Results Printing (PRD)	60	1	60	75	Location for hard copy results production & distribution. Location of high intensity work involving many staff preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area & position for the Print Distribution Workstation (IDS interface) equipment and operator.	Near/adjacent to Press Workroom, access to Press Tribunes, Broadcast Commentary Positions, Sport Information Desk, Doping & Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specification. Space & FF&E required for equipment and operational staff as well as space for 1 x pallet of paper to support print/copy operations.	-	I	I	I	F						R	IF, Swatch
TV Graphics Interface	3	1	3	6	Location where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operators & good cable access to OVR room.	-				I		F			G	P	
Technology Storage																			
Technology General Storage	15	1	15	18	Location for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F					G	P	
IT Bulk Storage	30	1	30	38	Storage area for all spare IT equipment & associated boxes/containers.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to IT provider at all times.				F					G	P	
Reprographic Primary Storage Area	12	1	12	15	Primary storage/technical area in-venue for reprographic provider. Storage for spare parts, additional devices and consumables serving primarily Results Printing Operations.	In venue location adjacent to, or within Results Printing Room.	High Security - lockable. Standard office environment with standard power. Workspace & FF&E for one technician.	-	I		F						G	P	
Reprographic Bulk Storage Area	15	1	15	18	Storage area for bulk paper allocated to venue (multiple pallets).	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of paper required to support venue operations.				F					G	P	
Timing and Scoring Workshop	10	1	10	13	In venue storage & workshop for timing equipment, spare parts & small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.	-	I		F						G	P	
Timing & Scoring Bulk Store	30	1	30	38	Storage area for large crates & containers used for scoreboards and bulk equipment. Must be accessible to OVR provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of Timing & Scoring equipment deployed to venue. May be combined with Timing & Scoring Workshop if location & size of space meet requirements for venue.	I		F						G	P	
Audio Visual Bulk Store	15	1	15	18	Storage area for large crates & containers used for video boards, PA equipment & TV boxes. Must be accessible to Video/Public address provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of audio/video equipment deployed to venue.				F					G	P	
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closet. CCFs are to be installed in locations that allow for easy access for service technicians and which allow for easy cable access both from TER room and to user device locations.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Work Room.	High Security - lockable and weatherproof. May require fan or dedicated A/C depending on room location and/or configuration. Fully redundant power (mains and generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.	I		F							P	
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of power from data/voice and audio-visual cabling.	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in a manner which allows for easy access and repair/replacement. Legacy installations are to be installed as permanent while temporary (overlay) should be installed using methods which are easily installed and removed minimising potential damage to existing venue.				F						P	
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.	-	-	-											
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.	-	-	-											
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.	-	-	-											

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	-											
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	-											
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-											
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-											
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-											
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-											
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-											
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing and Scoring/OVR contractor.	I			F						P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.											
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F						P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the videoboard. Required for outdoor venues where the videoboards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each videoboard.											
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Production on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F					G	P	
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to/from audio/PA amplification system and/or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend PA speakers from venue ceiling structure.	-	-	-											
Mobile Phone Infrastructure (antenna)	-	Varies	-	-	Infrastructure required to support installation of additional radio antenna & mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to/from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.	I			F					G	P	

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Ticketing																			
Ticket Box Office	40	1	40	100	An area at the venue where Olympic tickets are sold.	Adjacent to the secure perimeter; near the spectator entry point of the venue	Gross area includes internal & external queue.	Assumes container unit with disabled access to internal and external service window. Dependant upon venue layout and footprint, spectator access point locations.										P	
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	15	1	15	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s)	15	1	15	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	25	1	25	50	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.										P	
Driver Staging	80	1	80	150	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.										P	
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside venue secure perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	20	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-										P	
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from Host City, based on vehicle/bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J							P	
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J							P	
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F						P	
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.				F						G	IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.				F						G	IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.	I		F							G	IOC
Spectator and Staff Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				F						P	
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.	I		F							P	
Accessible	-	-	-	-	-	-	-	Part of Spectator total.				F						P	
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Surface areas paved or gravel.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have drop-off in close proximity to accredited entry point and then driver will park.			I	F						P	
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.				F						P	
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.				F						P	
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-			J	J						P	
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes vehicle circulation.				F						P	
Emergency Services	-	-	-	50 (each)	-	Generally located inside the Secure Venue Perimeter.	-	Includes vehicle circulation.				F						P	

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Venue Development																				
Site Management Compound	503	1	503	650	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Dependent upon venue footprint, extent of temporary works and number of contractors.										P		
Site Management Area	60	1	60	-	-	-	Enclosed space.	-												
Site Manager & Assistant Site Manager(s) Work Area	12	1	12	-	Work and meeting area for the Site Manager and Assistant Site Manager.	-	-	-												
Site Administration Desk & Work Area	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-	-												
Response Team & Vendor Staging	24	1	24	-	On-site permanent and temporary facilities for specialty staff and general labor crew to be on-call.	-	-	-												
Secure Storage - Site Management	12	1	12	-	Area for storage.	-	-	-												
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.	-	Enclosed space. Area for office, staging and a secure storage area.	Assumes container units or existing space. Contractor usually installs container units at their own cost.												
Sign/Look Staging, Work Space/Secure Storage	50	1	50	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	-	Assumes container unit or existing space.												
Material Warehouse/Construction Work Space	80	1	80	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	-	Enclosed space.	Assumes tent or canopy with 2 side walls. Area for carpentry, painting and general construction. Storage for non-weather proof materials.												
Vendor Secure Storage	60	1	60	-	Area for containers, usually provided by the various temporary construction sub-contractors.	-	Enclosed space.	Assumes container units or existing space.												
Materials Staging Area	50	1	50	-	Area for the off-loading and loading of bulk construction materials.	-	Area only.	-												
Exterior Storage Area	50	1	50	-	Outdoor storage of material and products.	-	Area only.	Weatherproof area for large and bulk materials.												
Vehicle Staging	90	1	90	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	-	Area only.	Service, Repair & Specialty vehicles.												
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.	I			F							P	
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.	-	I			F							P	
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.	I			F							P	
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.												
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-	-												

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Venue Management																			
Venue Operations Centre (VOC)	60	1	60	90	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Dependent upon venue capacity and venue layout.										P	
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-					F						
Assigned Desks	20	1	20	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Space and Storage	18	1	18	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	40	1	40	50	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.					F					P	
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	24	1	24	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	8-10 people.											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	150	1	150	180	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre.	Enclosed space.	Assumes existing space or tent. Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.					F					P	
Workforce																			
Workforce Area	150	1	150	180	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.					F					P	
Check-In Area	96	1	96	-	Area to log-in venue staff and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Area	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	335	1	335	400	The space where workforce meals are served and where workforce can break during their shift.	A location that will provide easy access to all workforce for breaks and meals; will vary according to venue layout/size.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon venue workforce numbers.					F					P	
END OF DOCUMENT																			

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Accreditation																								
Venue Accreditation Office	50	1	50	125	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.											P	-				
Day Pass Issue & Problem Resolution Desk	15	1	15	-																				
Work Area	15	1	15	-																				
Manager Desk or Office & Storage	12	1	12	-																				
Waiting Area	8	1	8	-																				
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	-	Enclosed space. Required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.											P	-				
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Broadcast																								
Broadcast Compound	-	1	-	4000	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements.																
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Gross area includes snow removal access.											R	IOC				
Broadcast Manager Office	12	1	12	-		-	-	-	Assumes container unit.											G	IOC			
Work Room, Assigned & Unassigned Desks	48	1	48	-		-	-	-	-															
Technical Operations Centre	40	1	40	100	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.											R	IOC				
Broadcast Catering	140	1	140	180	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	-																
Kitchen & Prep	20	1	20	-		-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.															
Buffet Line & Dining	120	1	120	-		-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.															
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements.																
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-																
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters.																
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-																
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.																
Toilets	1.5	8	12	36	Toilet units designated for broadcast personnel.	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Commentator Control Room (CCR)	50	1	50	65	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in close proximity to commentator position area	Enclosed space with incoming television cable.	Assumes existing space or container unit.											R	IOC				
Broadcast Information Office (BIO)	20	1	20	25	Space for broadcast management and team meetings.	Located near commentator positions and CCR	Enclosed space.	Assumes existing space or container unit.											R	IOC				
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-											G	IOC				
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J								R	IOC				
Mixed Zone	20 linear mtrs.	1	20 linear mtrs.	120	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Adjacent to the FOP	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	2 showers next to mixed zone area for athletes to use if necessary prior to entering the mixed zone.	I	I	J								R	IOC, IF				
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in seating areas with view to FOP and covered when possible.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Outdoor commentator positions should have the option of cover for protection from various weather conditions (e.g. sun, rain). Space for commentator positions may vary according to actual venue/permanent seating setup.											R	IOC				

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Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	Located at the rear of the commentator grouping so as not to disrupt the FOP view of other commentator positions.	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	A com-cam position equals 2 adjacent commentator positions.			I	J								
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions	1 position = uses 1 seat in existing seating bowls.	-			I	J						R	IOC	
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval. Space for camera positions may vary according to actual venue/permanent seating setup.	J		I	J						R	IOC	
Camera Position - Other	4	30	120	270	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	Space for camera positions (e.g. crane camera) may vary according to actual venue/permanent seating setup. All positions/functions need approval by the FIVB.	I		I	J						R	IOC	
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-				J	I		J				G	IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	See also Technology requirements.				J	I		J				G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in Back of House areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.				J	I		J				G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography	J			J	I		J	I			R	IOC
Catering																				
Catering Compound	565	1	565	850	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity. Gross area includes snow removal access.					I	F					P	
Work Areas - Catering Management	28	1	28	-	Operational work space(s).	Generally, located in Catering Compound or possible the VOC.	Enclosed space.	Assumes existing space or container.												
Organising Committee Catering Manager	-	-	-	-		-	See Venue Management - VOC.	-												
Catering Contractor	16	1	16	-		-	-	-												
Beverage Contractor	12	1	12	-		-	-	-												
Dry, Cold & Ice Storage	38	6	228	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.												
Vehicle Staging	90	1	90	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-												
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-												
Kitchen & Preparation Area	80	1	80	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.												
Uncovered Storage	75	1	75	-	Outdoor storage of material and products.	-	Area only.	-												
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilets should be provided.												
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit.	-												
Spectator Points of Sale (P.O.S.)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container's). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity and level of catering activity.		I		F						P		
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.												
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.												
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	See Look for details.	-		I		F							P	

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Ceremonies																				
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-											P	
Ceremonies Staging	36	1	36	45	For the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule; to coordinate location of podium, procession, and recession route, and location of flagpoles.	Adjacent to or close to FOP.	Consists of coordinator work space with area for anthem storage, secure storage, preparation and dressing area; see below for additional details.	Assumes existing space or container.											P	
Manager Desk	6	1	6	-	Work space for Manager.	-	-	-												
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenters, Medal/Flower staging, Secure medal and flag storage	22	1	22	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format. Medals storage is not required for those venues where the medal ceremony will take place at another location.												
Presenter Preparation & Dressing	4	2	8	-	A dressing and preparation area for Presenters.	In close proximity to FOP.	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-												
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	In close proximity to FOP.	Limited use, may be shared with other space. See Sport Presentation.	-												
Awards Podium Storage	12	1	12	15	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	-											P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.	I		J	J					J	G	R	IOC
Cleaning and Waste																				
Cleaning & Waste Compound	252	1	252	350	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependant upon venue capacity.											P	
Vehicle Staging	72	1	72	-	Parking area for collection vehicles which generally remain inside the venue.	-	Area only.	-												
Sorting Area	72	1	72	-	Area for sorting waste.	-	Area only.	-												
Waste & Recycle Containers	15	4	60	-	Area in front of waste and recycle bins where material is separated for containment.	-	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).												
Compactor Unit	25	Varies	Varies	-		-	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.												
Equipment Supply & Storage	15	2	30	-	Space for cleaning equipment and paper product.	-	Enclosed space.	Assumes container unit.												
Contractor Office	18	1	18	-	Space for management and workforce staging.	-	Enclosed space.	-												
Doping Control																				
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	-	J		J	J							R	IOC
Waiting Area/Reception	26	1	26	30	Area where athletes check-in and wait prior to testing.	-	-	-												
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Blood Processing Room(s)	15	Varies	Varies	20 (each)	Area where athlete blood samples are provided and sealed	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Office / Storage	12	1	12	15	Wash basin for hand sanitisation.	-	Enclosed space. Secure storage.	-												
Office / Storage	12	1	12	15	Work and storage space for Doping Manager.	-	Enclosed space. Secure storage.	-												
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-	I		J	J							R	IOC

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Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.					F					P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of workforce pre-shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large group.	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.					F					P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.					F					P	
Information Desk	-	-	-	-	-	-	-	-											
Lost and Found	-	-	-	-	A holding area for items found in the venue.	-	-	-											
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spectators.	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	-	-	Will depend on level of service at venue.					F					P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes; located between screening/search area and spectator plaza.	Total number generally 50% of security screening positions.					F					P	
Stroller Storage	Varies	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	In close proximity to seating area.	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.					F					P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.					F					P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators					F					P	
Spectator Shade and Shelter	Varies	Varies	Varies	72 (each)	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and spectator service amenities.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.					F					P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-					F					P	
Spectator Toilets	1.5	Varies	Varies	5 (each) 6 (per 20 toilets)	Toilet units designated for spectators.	Located in FOH, close proximity to seating and spectator amenities.	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.					F					P	
Hand Wash Stations	1	Varies	Varies	20	A chemical unit used in the absence of potable water.	Located in FOH, close proximity to seating and spectator amenities.	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.					F					P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Finance																				
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I			F						P	
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Generally located inside venue perimeter and outside venue perimeter.	Area only.	Dependent upon spectator capacity.												
Language Services																				
Work Area / Desk	20	1	20	25	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre.	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-		J	J			I				G	IOC	
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference needs.	-		J	J			I				G	IOC	
Logistics																				
Logistics Compound	-	1	Varies	650	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access. Secondary Compound Area - an additional compound area may be necessary for staging or storage of equipment that is in close proximity to FOP and/or the finish area.											P	
Logistics Centre	60	1	60	-	-	-	Enclosed space.	Assumes container units or tent.												
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-												
Team Staging/Work Area	33	1	33	-	Space for staging and a work area.	-	-	-												
Secure Storage & Equipment Sign-out	15	1	15	-	Area for storage.	-	Storage for tools.	-												
Warehouse Storage	90	1	90	-	Storage area for furniture, fixtures, and equipment (FF&E).	-	Enclosed space.	Assumes tent												
Storage Yard	75	1	75	-	Outside storage area within compound.	-	Area only.	-												
Vehicle Staging	100	1	100	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-												
Fuel Tank(s)	9	Varies	Varies	25 (each)	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.												
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.												
Material Transfer Area (MTA)	-	1	-	575	An area where packages or other items are delivered when they arrive outside the venue delivery schedule times.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.											P	
X-Ray Area	36	1	36	72	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.												

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Look of the Games																				
Work Area and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.										P		
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J					J		R	IOC	
National Olympic Committee (NOC) Flags	-	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events) and competition format.	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.			J	J				J		R	IOC	
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and back of locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J				J	G	R,P	IOC, IF	
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals.	-												
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH).	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.		I	J	J				J	G	R	IOC, L	
Backdrop - Press Conference Room	2.2 x 6	1	2.2 x 6	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F		I	I					
Medical Services																				
Athlete Medical	65	1	65	100	An area where Medical provides services to athletes competing at the venue.	Located in Back of House within the accredited athlete area.	Enclosed space.	Assumes container or existing space.	J	J	J							R	IF	
Reception & Waiting	12	1	12	-	Area where athletes check-in and wait prior to examination.	-	-	-												
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-												
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-												
Physiotherapy Area(s)	8	2	16	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-												
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Athlete Physiotherapy Area	-	-	-	-	-	-	See Sport Operations.	-	J	J	J					J		R	IF	
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J							S	IF	
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.												
Spectator Medical	50	1	50	100	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed space. 1 per 20,000 spectators.	Assumes container unit or existing space.			I	F	I					P		
Reception & Waiting	12	1	12	-	Area where spectators check-in and wait prior to examination.	-	-	-												
Medical Work Space & Secure Storage	12	1	12	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-												
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-												
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Triage Station	36	1	38	72	Additional space to treat minor medical needs of spectators.	Located in the Front of House.	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.			I	F	I					P		
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.				F	I					P		
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Area only. Paved, graveled or grass area with fence, barricade or rope enclosure.	-				F	I					P		

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Merchandise																				
Office, Cash Room & Work Area	12	1	12	15	An area to manage the retailing of all Olympic merchandise inside the venue.	-	Enclosed space with secure entry.	Assumes container unit or existing space.					F					P		
Storage	15	3	15	45		-	-	Assumes storage containers or existing space.					F						P	
Program Sales Stands/Booths	1	1	1	2		-	Area only.	Units provided by vendor. Quantity and location decided by vendor and OCOG.					F						P	
Merchandise Points of Sale (POS)	6	Varies	Varies	18		Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.	Gross area is per each P.O.S. and includes service area and queue.		I		F						P	
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-		I	J	J						G	R	IOC
Olympic Family Services																				
Olympic Family Lounge	319	1	319	700	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes tent.	I		I	F					I	G	G	IOC
Welcome Desk & Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-	-												
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.	-												
Staff/Volunteer Room & Storage	16	1	-	-	On-call waiting area for Protocol staff and equipment storage.	-	-	-												
Dining & Lounge	190	1	-	-	Area for dining and lounge.	-	-	-												
Preparation/Buffer set-up/Beverage Area	95	1	-	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Staff/Volunteer, Athlete, Media)	-												
Toilets	40	1	40	80	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	4 female, 4 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided.				F							P	
Protocol flags	-	-	-	-	-	-	See Look of the Games	-			J	J				J			R	IOC
Press Operations																				
Venue Media Centre (VMC)	450	1	450	650	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Confer	Close proximity to Press Tribune, Press Conference room, and Mixed Zone area.	Enclosed space for 120 press and 30 photographers.	Assumes tent.				F						R	IOC	
Reception & Information Desk	18	1	18	-	Welcome desk at the entrance, for information distribution.	-	-	-												
Storage	4	1	4	-	Equipment storage.	-	-	-												
Press Manager Office	12	1	12	-	Operational work space.	-	-	-												
Photo Manager Office	12	1	12	-	Operational work space.	-	-	-												
Olympic News Service (ONS) Work Room or Area	25	1	25	-	Operational work space.	-	Enclosed space.	-												
Info Stations	20	1	20	-	Computer stations and printers.	-	-	-												
Press Work Room or Area	200	1	200	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.												
Photo Work Room or Area	55	1	55	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.	-												
Photographers Check-in & Photo Bib Distribution	9	1	9	-	Area where photographers register and receive/return photo bibs.	-	-	-												
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.												
Lounge/Catering Prep	70	1	70	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-	-												
Toilets	1.5	8	12	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided.												
IF Press Delegate Room	-	-	-	-	-	-	See International Federation section for details.	-												

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Press Conference Room	150	1	150	280	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences or other technical meetings.	I			F						R	IOC
Seating Area	100	1	100	-	An area for accredited press.	-	Seats and standing room.	-											
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3.6 m table, 8 chairs & step and repeat backdrop.	-											
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-											
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-											
Backdrop - Press Conference Room	-	-	-	-	-	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	See Look for details.	-				F			I	I			
Mixed Zone	20 linear mtrs.	1	20 linear mtrs.	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	-	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I		I	F						R	IOC,IF
Press Tribune	-	-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	Easy access from Venue Media Centre and direct access if possible to Mixed Zone.	Tabled seating is fitted out with telephones, television monitors, power and other press facilities (indoor venues). For outdoor venues, these services will exist in VMC.	-											
Press Tabletop Seating	Varies	Varies	Varies	-	-	Easy access from Venue Media Centre and direct access if possible to mixed zone.	<u>In an existing stadium or seating area:</u> 1 seat wide (folding chairs at 60 cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50 cm deep tabletop per position, each position = 2 stadium seats. <u>Temporary Stands:</u> 1 seat (folding chairs at 60 cm spacing) x 2 rows deep of proposed seating system (normally 150 cm-170 cm deep).	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.			I	F					R	IOC,IF	
Press Seating (non-tabled)	Varies	Varies	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.			I	F						R	IOC,IF
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided											
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-											
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	Located on FOP.	Approx. 100 photographers expected at peak finals periods. 60cm wide x 90cm deep per position, multi-row areas require 60cm riser per row.	Power, Wireless and data cabling needed to photo positions on FOP.	J		I	J						R	IOC, IF
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Normal seating areas.	-	Seating areas are generally not applicable for outdoor venues.	I		I	F						G	IOC
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

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Security																				
Security Command Centre	120	1	120	145	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.											P	
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-												
Security Work Area	15	1	15	-	An area for additional security agencies.	-	-	-												
CCTV Surveillance & Video Desk	15	1	15	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-												
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.												
Radio Dispatch & Monitoring	15	1	15	-	An area for the monitoring and control of security communication and the distribution/return of radios.	-	-	-												
Work Room	50	1	50	-	Open plan of work stations designated for security personnel.	-	-	-												
Secure Storage	10	1	10	-	An area for Security equipment storage.	-	-	-												
Dog Cage(s)	4	Varies	Varies	8 (each)	Holding area for security dogs.	-	Area only for enclosed portable units (e.g. cages)	Dependent on Host City / Country / Risk Assessment												
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-												P
Briefing and Break Area / Staging Area	140	1	140	170	Area for briefing staff before and after shifts.	-	Enclosed space.	Assumes tent.												
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.												P
Vehicle Screening & Sanitisation Area	569	1	569	800	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.												P
Vehicle Queue	175	1	175	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-												
Oversized Vehicle Queue	140		140	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-												
Vehicle Sanitisation & Wanding Areas	150		75	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.												
Oversized Vehicle (Truck & Bus) Sanitization	70		70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-												
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.												
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Staff staging and break enclosed space.	-												
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the venue secure perimeter and/or venue screening area for constituents.	-	Dependent upon spectator capacity and venue design.												P
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-												
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-	I			F								P
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-	I			F								P
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.	I		I	F								P

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Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the venue secure perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.										R	IOC
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the venue secure perimeter.	Enclosed space for screening/search area positions.. Net area for each screening position will accommodate the following: 4 Wanding Stations, OR 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue. Dependent upon spectator capacity and venue design.											
Athlete / Team	18	1-2	18-36	36-72	-	BOH.	-	-				F						R	IOC
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with Athlete and/or Olympic Family.				F						G	IOC
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with TO, ENG and/or Press.				F						P	
Broadcast	18	1-2	18-36	45-90	-	BOH.	-	If possible, direct access from outside venue perimeter into Broadcast Compound.											
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	BOH; located in close proximity to Venue Broadcast Compound.	-	-											
Press and Photographer	18	1-2	18-36	36-72	-	BOH; located in close proximity to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast).	If possible, direct access from outside venue perimeter into Venue Media Centre.				F	I						
Workforce (Staff/Volunteer/Contractor/Vendor)	18	2-3	36-54	90-135	-	BOH or possibly FOH.	-	-				J	J					P	
Spectator / Sponsors	18	Varies	Varies	54	-	FOH.	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-	I			F							P
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.				F		I					P
Exception Gate	Varies	Varies	Varies	-	Access gate for designated accredited personnel.	FOH; located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.				F							P
X-ray of bags	36	Varies	Varies	72 (each)	Device for screening bags/equipment coming into the venue.	FOH and BOH.	Covered.	-				F	I						P
Venue Perimeter Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	Dependent upon spectator capacity and venue design.											
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	1 m to 3m width, sometimes used as a secondary service vehicle exit point.	-											
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m each, number varies per concourse design.	-											
Workforce (Staff/Volunteer/Contractor/Vendor)	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	Size dependant upon total workforce numbers.				I	F				G	P	
Sponsor Services																			
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.				I	F						P

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Sport Operations																			
Competition Management	60	1	60	90	A work area for Sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located close to Athlete Area and FOP; may be co-located within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space.	I			F						P	
Competition Manager & Asst. Manager Desks	12	1	12	-	An area for the Manager and Assistant(s) Manager.	-	-	-											
Assigned Work Area	20	1	20	-	Open plan of work stations designated for Sport personnel.	-	-	-											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Area	18	1	18	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-											
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	Daily IF and OCOG Competition Management staff (min. 20 persons), Technical Meeting (min. 180 persons) meetings. The press conference or VOC multi-purpose room can be used also for such a meeting.											
Sport Information	25	1	25	35	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located in the Athlete Lounge.	Enclosed space with waiting area and seating.	Includes: information boards, pigeon holes, Info & Help desk, work area, info terminal stations & storage.	J		J							R	IF
Athlete Lounge	200	1	200	240	An area where athletes can relax at the venue while not training or competing.	Located in Athlete Area.	-	Includes: seating area, lounge, Info & Help Desk, info terminal stations.	J		J							R	IF
Player Call Desk	-	-	-	-	An area where athletes can sign-in and sign-out when arriving and departing the venue.	Loated in Athlete lounge.	-												
Physiotherapy Area(s)	40	2	80		Area where physiotherapy occurs.	Adjacent to Athlete Medical.	Massage tables with privacy screening.	Assumes container units or existing space.											
Athlete Dressing, Locker, Shower, Toilet	60	2	120	160	Change-room facilities to accommodate athletes at the venue during competition and training.	Located in Athlete Area.	Enclosed space. Separate male and female facilities.	Assumes container units or existing space. It is recommended to provide 2 showers that players can use immediately after play; in close proximity to mixed zone.	J		J							R	IF
Players Pre & Post Game Relaxation Rm.	50	2	100	115	Area for athlete preparation prior to match.	In close proximity to Athlete Lounge and locker areas and Athlete Medical area.	Enclosed space. A location where athletes can concentrate prior to the match; as well as after the match has concluded. Separate male and female facilities.	-	I		F							G	IF
IF & Sport Meeting Room	80	1	80	95	Meeting facility at the venue for the International Federation and Competition Management.	Located in close proximity to the IF Area and Competition Management area.	Enclosed space.	Shared meeting room area between IF & Sport to serve various meeting needs.	J		J							G	IF
Sport Equipment Storage	40	1	40	50	Storage for athlete/team sport equipment.	Located adjacent to FOP or within close proximity.	-	-	J		J	I						R	IF
FOP Equipment Storage	30	1	30	40	Storage of equipment required for competition.	Located adjacent to FOP or within close proximity.	-	-	I		F	I						R	IF
FOP Maintenance Equipment Storage	30	1	30	40	Storage of equipment required for maintaing the Field of Play.	Located adjacent to FOP or within close proximity.	-	-	I		F	I						R	IF
Sport Entertainment Room	-	-	-	-	-	-	See Sport Presentation for details.	-											
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	Refer to FIVB requirements and FIVB Court layout/design for all technical details.	-											
Playing Surface Dimensions or Area	26 x 18	1	468	-	-	-	Per venue: Court area: 16 x 8. Competition area: 26 x 18.	1-2 Main Courts may be required.	F		I			I	I			R	IF
Total Required Area Dimensions or Area	36-40 x 26-28	1	936-1120	-	-	-	36min.-40max. x 26min. - 28max. Area including the competition court and surface between the bleachers and banners.	Homologation required by the FIVB. Including free zone area around playing court (5m) and the free passage way between the free zone and the spectators area; this may vary from 3m-6m on the side of the time-out.	F		I			I	I			R	IF
Surface	-	1	-	-	-	-	Sand requires homologation by the FIVB.	Refer to FIVB requirements and FIVB Court layout/design for all technical details.	J		J	I		J				R	IF
Orientation	-	-	-	-	Orientation of FOP area.	-	According to sun effects, shadow, wind, and television requirements. Refer to FIVB requirements and FIVB Court layout/design for all technical details.	-	J		J	I		I	J			R	IF
Sports Lighting - Technical	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											
Camera Positions - IF and Teams	20	1	20	25	-	Seating area of venue.	-	Location may opposite to broadcast camera positions (e.g. crane camera); approval of location/position by FIVB.	I		F							R	IF

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Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	-	Refer to FIVB requirements and FIVB Court layout/design for all technical details.	-											
Warm-up Surface Dimensions or Area	26 x 18	2	936	-	-	Adjacent to Main Court.	Warm-up Court area: 16 x 8.	Total area required may be greater than playing surface dimension. Contingency court: 1 court should be equipped as the centre court with all basic elements (e.g. time-out areas, scorers, table, lighting, pa system, scoreboard, etc.) for use in the need of a contingency court.	J			J						R	IF
Surface	-	2	-	-	-	-	Sand requires homologation by the FIVB.	-	J		J	I						R	IF
Orientation	-	-	-	-	Orientation of warm-up area.	-	Refer to FIVB requirements.	-	I		F	I						R	IF
Athlete / Team Seating	-	-	-	-	A designated seating area for athletes.	-	-	-	J	I	J							R	IF
Same Sport	-	Varies	-	-	-	-	-	-	J	I	J							R	IOC,IF
Different Sport	-	Varies	-	-	-	-	-	-	I	I	F							R	IOC
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	May be required for Sport Staff use. Quantity varies according to athlete numbers.				F						P	
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	Required if FOP is not located near Athlete Area.	Assumes temporary units. Quantity varies according to athlete numbers.				F						P	
International Federation																			
IF Area	70	1	70	90	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located in close proximity to accredited seating areas, Olympid Family lounge, control committee offices, Competition Management Offices.	Enclosed space.	Assumes container units or existing space.	I	I	F							R	IF
IF President's Office	15	1	15	-	-	-	-	-	I	I	F							R	IF
IF Secretary - General/Executive Director's Office	15	1	15	-	-	-	-	-	I		F							G	IF
Reception, Secretariat, Waiting & Work Area	40	1	40	-	-	-	-	-	I		F							G	IF
President Meeting Room	-	-	-	-	-	-	See IF & Sport meeting room.	-	I		F							G	IF
IF Press Delegate & Photographer Room	30	1	30	35	An area designated for the IF press delegate and photographer.	Located within Venue Media Centre.	-	-	I		F							G	IF
Control Committee Meeting Room	60	1	60	90	An area where the control committee meets daily. This space is utilised for the resolution of protests and appeals after competition.	In close proximity to Competition Management and FOP.	-	-	I		F							G	IF
Appeal & Jury Room	24	1	24	30	-	-	Enclosed space.	Also for a debriefing area for referees.	I		F							G	IF
Officials Meeting Room	50	1	50	65	Area for officials to conduct meetings.	Located close to the International Officials Lounge.	Enclosed space. Officials (Referees, line judges and scorers) Meeting Room. A temporary partition required to separate the Referee Manager's office.	Assumes container units or existing space.	I		F							R	IF
Technical Delegates Office & Work Area	15	1	15	20	Office area for Technical Delegates.	Adjacent to control committee and FIVB delegate offices.	Enclosed space. 2 Technical Delegates.	-	I	I	F							R	IF
Lounge - Officials	100	1	100	120	Area for IF Officials lounge (Referees, Judges, etc.).	Adjacent to IF offices and close proximity to FOP.	Enclosed space.	Assumes container units or existing space.	I	I	F							R	IF
Officials Locker Room, Shower, Toilet	60	2	120	130	Referees, Line Judges, scorers locker rooms.	-	Enclosed space.	Assumes container units or existing space.	I		F							R	IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I	J	J							R	IOC,IF
Sport Presentation																			
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.											
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-			F							P	
Announcer Position	3	1	3	-	-	-	-	-			F							P	
Sport Entertainment Room	60	1	60	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	In close proximity to FOP; easy access if possible.	Enclosed space, consisting of work area, green room, entertainer staging and dressing and prop storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.				F						P	

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Technology Operations																			
Technology Help Desk	16	1	16	-	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium Security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support staff & manager.	-				F						P	
Venue Technology Operations (VTO)	25	1	25	-	OCOG Technology Operations area. Operational work space for entire Venue Technology team, including Partners & contractors.	Adjacent to or within Venue Operations Centre (VOC).	Medium Security - lockable room. Air-conditioned as office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	-				F					G	P	
OCOG Venue Technology Work Area	-	1	-	-	Work space for Venue Technology Manager, Assistant Venue Technology Manager, Technology Workforce Manager and associated volunteer(s).	-	-	Work space size may be dependent upon workforce per shift.											
AV Contractor Work Area	-	1	-	-	Work space for AV contractors/Technicians.	-	-	Work space size may be dependent upon workforce per shift.											
IT Provider Work Area	-	1	-	-	Work space for IT workforce and "home base" for IT volunteers.	-	-	Work space size may be dependent upon workforce per shift.											
Reprographic Provider Work Area	-	1	-	-	Work space for reprographic contractors/technicians	-	-	Work space size may be dependent upon workforce per shift.											
Mobile Phone Provider Work Area	-	1	-	-	Workspace for mobile phone provider.	-	-	Work space size may be dependent upon workforce per shift. Charging area for Venue Operations workforce phones may be required.											
Wired Communications Provider Work Area	-	1	-	-	Work space for Wired Communications contractors/technicians.	-	-	Work space size may be dependent upon workforce per shift.											
Timing & Scoring/OVR Provider Work Area	-	1	-	-	Work space for OVR/Timing & Scoring contractors/technicians.	-	-	May not be required if adequate working space is allocated in OVR room.											
Radio Distribution Room (RDR)	20	1	20	25	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E and workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).	I			F						P	
Information Technology																			
Computer Equipment Room (CER)	16	1	16	-	Location for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.	I			F					G	P	
Data Local Area Network (LAN) Management Room & Store	25	1	25	-	LAN monitoring room and associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational staff & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces.				F					G	P	

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Telecommunication & Audio Visual																				
Telecomm. Equipment Room (TER) Primary	36	1	36	-	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	Raised flooring is preferable for cabling distribution, but not essential.	I			F						P		
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.	I			F						P		
Telecomm. Operations & Store	25	1	25	-	Operational space for Telecommunications technical staff and associated storage for spare parts.	Adjacent to TER.	As TER with adequate FF&E to support operational staff & storage.	If located adjacent to TER, power supply boards, UPS units & A/C services can be common for both spaces.	I			F						P		
Audio Control Positions																				
Venue	4	1	4	-	Area within Sport Production, location for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Production. Can be on FOP, in stands or in a booth with view to FOP.	High Security. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	Storage for country anthems.				F					G	P		
Press Conference	4	1	4	-	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), air-conditioned, waterproof. Work space & FF&E for operator.	PA system may also be used for Competition Draw if draw is held in Press Conference room.												
Warm-Up Area	2	1	2	-	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Warm-Up Area/Court	Standard/mains power & FF&E.	-												
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-												
Workforce Break/Dining	2	Varies	Varies	-	Area within Staff Break/Training room where audio control equipment is installed to facilitate meetings/training of large numbers of staff.	Workforce break/dining areas.	Standard/mains power & FF&E.	-												
Video Board Control	4	1	4	8	Location of video control for video board or video projection system. Operations integral with those of Sport Production.	Ideally with Sport Production. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	Separate camera for spectators entertainment to feed the video board.	I			F						G	P	
Wired Communications Control	2	1	2	-	Location of wired communications master control station and support technician. System essential to operations of both Sport Production and Results/FOP management.	Near to or within Sport Production is preferable. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location if located outdoors. Good cable access to FOP, OVR Room, Sport Production, Broadcast Graphics Room & Results Printing required. Workspace & FF&E for one technician, control equipment, spare parts and containers/boxes for equipment.	-				F						G	P	
Temporary PA equipment Room	2 min	1	2 min	-	Temporary location for installation of PA active equipment (amplifiers etc) for venue PA system.	In existing PA equipment room, if applicable. May be located under venue seating/tribunes if existing room not available.	High Security. Fully redundant power (mains & standby generator) to equipment. Good cable access to speaker location and PA/Audio Control position required. Equipment installed in racks. Each rack set is 1000H x 600W x 600 D maximum.	Number of racks will depend on size of system deployed. Generally venues with large geographic area (outdoor) require larger installation and therefore more racks of amplifier equipment.					F					P		

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Timing, Scoring, & Results Operations																				
Results Data Entry Position	-	-	-	-	Location(s) for event results and/or statistics data entry during competition.	Refer to FIVB requirements and FIVB Court layout/design for exact locations.	High Security. Fully redundant power (mains & generator) with UPS to all results data entry equipment/workstations. Space & FF&E for all data entry personnel & results management staff.	Where Data Entry outdoors, adequate weather (rain/sun) protection for equipment/workstations to be provided. If a second court is required , data entry positions to be duplicated as Main Court.	I	I	I	F						R	IF, Swatch	
Field of Play - Statistics Tables	2	2	4	-	Areas/positions for statistics calling & data entry into OVR system.	Positions located at either end of FOP with sport statisticians.	Cable pathway to Technical Table.	May occur as a position on the FOP, or in a room with a view to the FOP.												
Field of Play - Technical Table	3	1	3	-	Area/position for results data entry & ball speed gun control operations.	Position located at Technical Table on FOP with sport results & sport officials.	Cable Pathway to Statistics Tables , Official Table, sport specific scoreboards, speed guns & OVR Room.	Generally occurs Back of House, in Sport location.												
Timing and Scoring Position	-	-	-	-	Location(s) for event timing & scoring personnel & equipment during competition.	Sport Specific. However, all locations must have view to FOP	High Security. Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards, ball speed guns & OVR room. Space & FF&E for operators and equipment. Adequate weather (rain/sun) protection for equipment/workstations to be provided. If a second court is required , data entry positions to be duplicated as Main Court.	-	I	I	I	F						R	IF, Swatch	
Field of Play - Official Table	2	2	4	-	-	Position located on FOP with sport officials.	Cable pathway to Technical Table.	-												
On Venue Results (OVR)	61	1	61	-	Location is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	Easy access to FOP critical for technical and results staff.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Space & FF&E required for high density of computer workstations, racks for servers and working space for technicians, operators and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or venues where two sports occur concurrently will require more space for additional OVR equipment. If a second court is required, it is possible that additional OVR space may be required near the court. This would be a reduced size OVR room with minimal equipment deployed.										P		
OVR Provider Work Area	18	1	18	-	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO/CIS/PRD etc).	Ideally adjacent to IT provider work area.	-	-												
IT Provider Work Area	18	1	18	-	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-												
Scoreboard Control	4	1	4	-	Location of scoreboard control operations. Operations integral with those of Sport Production, data provided from OVR System. Space for both Control and Interface workstations and 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.	I	I		F						G	P	IF
Scoreboard Control	2	1	2	-	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator and workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-												
Scoreboard Interface	2	1	2	-	Area for interface equipment (PC workstations) linking OVR system and Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-												

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Results Printing (PRD)	60	1	60	-	Location for hard copy results production and distribution. Location of high intensity work involving many staff preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area and position for the Print Distribution Workstation (IDS interface) equipment and operator.	Near/adjacent to Press Workroom, access to Press Tribunes, Broadcast Commentary Positions, Sport Information Desk, Doping & Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specification. Space & FF&E required for equipment and operational staff as well as space for 1 x pallet of paper to support print/copy operations.	-	I	I	I	F						R	IF, Swatch
TV Graphics Interface	3	1	3	-	Location where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operators & good cable access to OVR room.	-				I		F			G	P	
Technology Storage																			
Technology General Storage	15	1	15	-	Location for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F					G	P	
IT Bulk Storage	30	1	30	-	Storage area for all spare IT equipment & associated boxes/containers.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to IT provider at all times.				F					G	P	
Reprographic Primary Storage Area	12	1	12	-	Primary storage/technical area in-venue for reprographic provider. Storage for spare parts, additional devices and consumables serving primarily Results Printing Operations.	In venue location adjacent to, or within Results Printing Room.	High Security - lockable. Standard office environment with standard power. Workspace & FF&E for one technician.	-	I		F						G	P	
Reprographic Bulk Storage Area	15	1	15	-	Storage area for bulk paper allocated to venue (multiple pallets).	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of paper required to support venue operations.				F					G	P	
Timing and Scoring Workshop	10	1	10	-	In venue storage and workshop for timing equipment, spare parts and small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.	-	I		F						G	P	
Timing & Scoring Bulk Store	40	1	40	-	Storage area for large crates and containers used for scoreboards and bulk equipment. Must be accessible to OVR provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of Timing & Scoring equipment deployed to venue. May be combined with Timing & Scoring Workshop if location & size of space meet requirements for venue.	I		F						G	P	
Audio Visual Bulk Store	15	1	15	-	Storage area for large crates and containers used for video boards, PA equipment and TV boxes. Must be accessible to Video/Public address provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of audio/video equipment deployed to venue.				F					G	P	
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required to distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closet. CCFs are to be installed in locations that allow for easy access for service technicians and easy cable access from TER room and to user device locations.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Work Room.	High Security - lockable & weatherproof. May require fan or dedicated A/C depending upon room location and / or configuration. Fully redundant power (mains & generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.	I		F							P	
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of Power from Data/Voice and Audio Visual Cabling	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in a manner which allows for easy access and repair/replacement. Legacy installations are to be installed as permanent while temporary (overlay) should be installed using methods which are easily installed & removed minimising potential damage to existing venue.				F						P	
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.	-	-	"											
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.	-	-	"											
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.	-	-	"											

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CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	"											
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	"											
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-											
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-											
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-											
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-											
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-											
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F							P
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.											
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to Video Control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F							P
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the videoboard. Required for outdoor venues where the videoboard cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each videoboard.											
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Production on a sport specific basis.	Adequate power, cable pathways to/from boards to Video Control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F						G	P
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to / from audio / PA amplification system and / or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend PA speakers from venue ceiling structure.	-	-	-											
Mobile Phone Infrastructure (antenna)	-	Varies	-	-	Infrastructure required to support installation of additional radio antenna and mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to / from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.	I			F						G	P

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Ticketing																			
Ticket Box Office	40	1	40	100	An area at the venue where Olympic tickets are sold.	Adjacent to the secure perimeter; near the spectator entry point of the venue	Gross area includes internal & external queue.	Assumes container unit with accessible access to internal and external service window. Dependent upon spectator capacity, venue layout and footprint and spectator access point locations.										P	
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	15	1	15	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s)	15	1	15	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	25	1	25	50	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.										P	
Driver Staging	80	1	80	150	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.										P	
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside Venue Secure Perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	20	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-										P	
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from each Host City, based on vehicle / bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J							P	
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J							P	
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F						P	
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.				F						G	IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.				F						G	IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.			I	F						G	IOC
Spectator and Staff Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				F						P	
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F						P	
Accessible	-	-	-	-	-	-	-	Part of Spectator total.				F						P	
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Surface areas paved or gravel.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have a drop-off in close proximity to accredited entry point and then driver will park.			I	F						P	
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.				F						P	
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.				F						P	
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-			J	J						P	
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes circulation.				F						P	
Emergency Services	-	-	-	50 (each)	-	Generally located inside the Secure Venue Perimeter.	-	Includes circulation.				F						P	

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Venue Development																				
Site Management Compound	503	1	503	650	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Dependent upon venue footprint, extent of temporary works, and number of contractors.										P		
Site Management Area	60	1	60	-	-	-	Enclosed space.	-												
Site Manager & Assistant Site Manager(s) Work Area	12	1	12	-	Work and meeting area for the Site Manager and Assistant Site Manager.	-	-	-												
Site Administration Desk & Work Area	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-	-												
Response Team & Vendor Staging	24	1	24	-	On-site permanent and temporary facilities for specialty staff and general labor crew to be on-call.	-	-	-												
Secure Storage - Site Management	12	1	12	-	Area for storage.	-	-	-												
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.	-	Enclosed space. Area for office, staging and a secure storage area.	Assumes container units or existing space. Contractor usually installs container units at their own cost.												
Sign/Look Staging, Work Space/Secure Storage	50	1	50	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	-	Assumes container unit or existing space.												
Material Warehouse/Construction Work Space	80	1	80	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	-	Enclosed space.	Assumes tent or canopy with 2 side walls. Area for carpentry, painting and general construction. Storage for non-weather proof materials.												
Vendor Secure Storage	60	1	60	-	Area for containers, usually provided by the various temporary construction sub-contractors.	-	Enclosed space.	Assumes container units or existing space.												
Materials Staging Area	50	1	50	-	Area for the off-loading and loading of bulk construction materials.	-	Area only.	-												
Exterior Storage Area	50	1	50	-	Outdoor storage of material and products.	-	Area only.	Weatherproof area for large and bulk materials.												
Vehicle Staging	90	1	90	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	-	Area only.	Service, Repair & Specialty vehicles												
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.	I			F							P	
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.	-	I			F							P	
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.	I			F							P	
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.												
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-	-												

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Venue Management																			
Venue Operations Centre (VOC)	60	1	60	90	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Venue capacity and venue layout.										P	
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-											
Assigned Desks	20	1	20	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Space and Storage	18	1	18	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	40	1	40	50	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.										P	
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	1 person.	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	24	1	24	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	8-10 people.											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	150	1	150	180	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre.	Enclosed space.	Assumes existing space or tent. Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.										P	
Workforce																			
Workforce Area	150	1	150	180	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.										P	
Check-In Area	96	1	96	-	Area to log-in venue staff and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Area	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	335	1	335	400	The space where workforce meals are served and where workforce can break during their shift.	A location that will provide easy access to all workforce for breaks and meals; will vary according to venue layout/size.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon workforce numbers..										P	
END OF DOCUMENT																			

WEIGHTLIFTING

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

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Accreditation																							
Venue Accreditation Office	50	1	50	125	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.										P	-				
Day Pass Issue & Problem Resolution Desk	15	1	15	-																			
Work Area	15	1	15	-																			
Manager Desk or Office & Storage	12	1	12	-																			
Waiting Area	8	1	8	-																			
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	-	Enclosed space. Required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.					F					P	-				
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.															
Broadcast																							
Broadcast Compound	-	1	-	2500	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements.															
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Gross area includes snow removal access. Assumes container unit.															
Broadcast Manager Office	12	1	12	-		-	-	-															
Work Room, Assigned and Unassigned Desks	48	1	48	-		-	-	-															
Technical Operations Centre	40	1	40	100	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Broadcast Catering	140	1	140	180	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	-															
Kitchen and Prep	20	1	20	-		-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.														
Buffet Line and Dining	120	1	120	-		-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.														
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements.															
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-															
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters.															
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-															
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.															
Toilets	1.5	8	12	36	Toilet units designated for broadcast personnel.	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.															
Commentator Control Room (CCR)	50	1	50	60	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in close proximity to commentator position area.	Enclosed space with incoming television cable.	Assumes existing space or container unit.															
Broadcast Information Office (BIO)	20	1	20	25	Space for broadcast management and team meetings.	Located near commentator positions and CCR	Enclosed space.	Assumes existing space or container unit.															
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-															
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J												
Mixed Zone	20	1	20	170	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Adjacent to the FOP.	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I	I	J												
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in seating areas with view to FOP and covered when possible.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Outdoor commentator positions should have the option of cover for protection from various weather conditions (e.g. sun, rain). Space for commentator positions may vary according to actual venue/permanent seating setup.															

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	Located at the rear of the commentator grouping so as not to disrupt the FOP view of other commentator positions.	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	A com-cam position equals 2 adjacent commentator positions.			I	J			J	I			
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions.	1 position = uses 1 seat in existing seating bowls.	-			I	J			J	I		R	IOC
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval. Space for camera positions may vary according to actual venue/permanent seating setup.	J		I	J			J	J		R	IOC
Camera Position - Other	4	20	80	180	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	Space for camera positions may vary according to actual venue/permanent seating setup.	I		I	J			J	I		R	IOC
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-					J	I	J			G	IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	See also Technology requirements.					J	I	J			G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in Back of House areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.					J	I	J			G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography	J			J	I	J	I			R	IOC
Catering																			
Catering Compound	565	1	565	850	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity.		I		F						P	
Work Areas - Catering Management	28	1	28	-		-	Enclosed space.	Assumes existing space or container.											
Organising Committee Catering Manager	-	-	-	-		Located in Venue Operations Centre.	See Venue Management - VOC.	-											
Catering Contractor	16	1	16	-		-	-	-											
Beverage Contractor	12	1	12	-	Operational work space(s).	-	-	-											
Dry, Cold and Ice Storage	38	6	228	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.											
Vehicle Staging	90	1	90	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-											
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-											
Kitchen and Preparation Area	80	1	80	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.											
Uncovered Storage	75	1	75	-	Outdoor storage of material and products.	-	Area only.	-											
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilets should be provided.											
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit.	-											
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container's). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity and level of catering activity.		I		F						P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	See Look for details.	-		I		F						P	

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Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Ceremonies																				
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-											P	
Ceremonies Staging	36	1	36	45	For the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule; to coordinate location of podium, procession, and recession route, and location of flagpoles.	Adjacent to or close to FOP.	Consists of coordinator work space with area for anthem storage, secure storage, preparation and dressing area; see below for additional details.	Assumes existing space or container.											P	
Manager Desk	6	1	6	-	Workspace for Manager.	-	-	-												
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenters, Medal/Flower staging, Secure medal and flag storage	22	1	22	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format. Medals storage is not required for those venues where the medal ceremony will take place at another location.												
Presenter Preparation and Dressing	4	2	8	-	A dressing and preparation area for Presenters.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-												
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	Close to FOP.	Limited use, may be shared with other space. See Sport Presentation.	-		I		F							P	
Awards Podium Storage	12	1	12	15	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	-			I	F							P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.	I		J	J				J	G	R	IOC	
Cleaning and Waste																				
Cleaning & Waste Compound	252	1	252	350	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependant upon venue capacity.											P	
Vehicle Staging	72	1	72	-	Parking area for collection vehicles which generally remain inside the venue.	-	Area only.	-												
Sorting Area	72	1	72	-	Area for sorting waste.	-	Area only.	-												
Waste & Recycle Containers	15	4	60	-	Area in front of waste and recycle bins where material is separated for containment.	-	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).												
Compactor Unit	25	Varies	Varies	-		-	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.												
Equipment Supply & Storage	15	2	30	-	Space for cleaning equipment and paper product.	-	Enclosed space.	Assumes container unit.												
Contractor Office	18	1	18	-	Space for management and workforce staging.	-	Enclosed space.	-												
Doping Control																				
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	-	J		J	J							R	IOC
Waiting Area/Reception	26	1	26	30	Area where athletes check-in and wait prior to testing.	-	-	-												
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Blood Processing Room(s)	15	Varies	Varies	20 (each)	Area where athlete blood samples are provided and sealed	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Office / Storage	12	1	12	15	Work and storage space for Doping Manager.	-	Enclosed space. Secure storage.	-												
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-	I		J	J							R	IOC

WEIGHTLIFTING

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.										P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of workforce pre-shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large group.	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.										P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.										P	
Information Desk	-	-	-	-	-	-	-	-											
Lost and Found	-	-	-	-	A holding area for items found in the venue.	-	-	-											
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spectators.	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	-	-	Will depend on level of service at venue.										P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes; located between screening/search area and spectator plaza.	Total number generally 50% of security screening positions.										P	
Stroller Storage	Varies	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	In close proximity to seating area.	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.										P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.										P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators										P	
Spectator Shade and Shelter	Varies	Varies	Varies	72 (each)	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and spectator service amenities.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.										P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-										P	
Spectator Toilets	1.5	Varies	Varies	5 (each) 6 (per 20 toilets)	Toilet units designated for spectators.	Located in FOH, close proximity to seating and spectator amenities.	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.										P	
Hand Wash Stations	1	Varies	Varies	20	A chemical unit used in the absence of potable water.	Located in FOH, close proximity to seating and spectator amenities.	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.										P	

WEIGHTLIFTING

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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Finance																				
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I			F						P	
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Generally located inside venue perimeter and outside venue perimeter.	Area only.	Dependant upon venue capacity.												
Language Services																				
Work Area / Desk	20	1	20	25	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre.	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-			J	J			I				G	IOC
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference needs.	-			J	J			I				G	IOC
Logistics																				
Logistics Compound	-	1	Varies	650	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access. Secondary Compound Area - an additional compound area may be necessary for staging or storage of equipment that is in close proximity to FOP and/or the finish area.												P
Logistics Centre	60	1	60	-	-	-	Enclosed space.	Assumes container units or tent.												
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-												
Team Staging/Work Area	33	1	33	-	Space for staging and a work area.	-	-	-												
Secure Storage & Equipment Sign-out	15	1	15	-	Area for storage.	-	Storage for tools.	-												
Warehouse Storage	90	1	90	-	Storage area for furniture, fixtures, and equipment (FF&E).	-	Enclosed space.	Assumes tent												
Storage Yard	75	1	75	-	Outside storage area within compound.	-	Area only.	-												
Vehicle Staging	100	1	100	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-												
Fuel Tank(s)	9	Varies	Varies	25 (each)	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.												
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.												
Material Transfer Area (MTA)	-	1	-	575	Generally for deliveries to the venue that may take place after hours or not within the logistics delivery window period.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.												P
X-Ray Area	36	1	36	72	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.												

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Look of the Games																			
Work Area and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.					F					P	
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J					J		R	IOC
National Olympic Committee (NOC) Flags	Varies	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events) and competition format.	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.			J	J				J		R	IOC
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and back of locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J				J	G	R,P	IOC, IF
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals.	-											
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH).	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.		I	J	J				J	G	R	IOC, L
Backdrop - Press Conference Room	2.2 x 6	-	-	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F		I	I				
Medical Services																			
Athlete Medical	65	1	65	100	An area where Medical provides services to athletes competing at the venue.	Located in Back of House within the accredited athlete area.	Enclosed space.	Assumes container or existing space.	J	J	J							R	IF
Reception & Waiting	12	1	12	-	Area where athletes check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Physiotherapy Area(s)	8	2	16	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J							S	IF
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.											
Spectator Medical	50	1	50	100	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed space. 1 per 20,000 spectators.	Assumes container unit or existing space.		I	F	I						P	
Reception & Waiting	12	1	12	-	Area where spectators check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	12	1	12	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Triage Station	36	1	38	72	Additional space to treat minor medical needs of spectators.	Located in the Front of House.	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.		I	F	I						P	
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.				F	I					P	
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Area only. Paved, graveled or grass area with fence, barricade or rope enclosure.	-			F	I						P	

WEIGHTLIFTING

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	I	J	F	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Merchandise																						
Office, Cash Room & Work Area	12	1	12	15		-	Enclosed space with secure entry.	Assumes container unit or existing space.							F						P	
Storage	15	2	30	35	An area to manage the retailing of all Olympic merchandise inside the venue.	-	-	Assumes storage containers or existing space. Units provided by vendor. Quantity and location decided by vendor and OCOG.						F							P	
Program Sales Stands/Booths	1	1	1	2		-	Area only.	Gross area is per each P.O.S. and includes service area and queue.						F							P	
Merchandise Points of Sale (POS)	6	Varies	Varies	18 (each)	Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.					I		F							P	
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.					I	J	J					G	R	IOC	
Olympic Family Services																						
Olympic Family Lounge	240	1	240	500	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes tent.	I						F				I	G	G	IOC
Welcome Desk and Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-															
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.															
Staff/Volunteer Room and Storage	12	1	12	-	On-call waiting area for Protocol staff and equipment storage.	-	-															
Dining and Lounge	140	1	140	-	Area for dining and lounge.	-	-															
Preparation/Buffer set-up/Beverage Area	70	1	70	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Staff/Volunteer, Athlete, Media)															
Toilets	30	1	30	60	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	4 female, 4 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided							F						P	
Protocol flags	-	-	-	-	-	-	See Look of the Games.						J	J							R	IOC
Press Operations																						
Venue Media Centre (VMC)	450	1	450	650	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Confer	Close proximity to Press Tribune, Press Conference room, and Mixed Zone area.	Enclosed space for 145 press and 25 photographers.	Assumes tent.							F						R	IOC
Reception & Information Desk	18	1	18	-	Welcome desk at the entrance, for information distribution.	-	-															
Storage	4	1	4	-	Equipment storage.	-	-															
Press Manager Office	12	1	12	-	Operational work space.	-	-															
Photo Manager Office	12	1	12	-	Operational work space.	-	-															
Olympic News Service (ONS) Work Room or Area	25	1	25	-	Operational work space.	-	Enclosed space.															
Info Stations	20	1	20	-	Computer stations and printers.	-	-															
Press Work Room or Area	200	1	200	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.														
Photo Work Room or Area	55	1	55	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.															
Photographers Check-in & Photo Bib Distribution	9	1	9	-	Area where photographers register and receive/return photo bibs.	-	-															
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.														
Lounge/Catering Prep	70	1	70	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-															
Toilets	1.5	8	12	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided														

WEIGHTLIFTING

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Press Conference Room	150	1	150	280	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I			F						R	IOC	
Seating Area	100	1	100	-	An area for accredited press.	-	Seats and standing room.	-												
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3.6 m table, 8 chairs & step and repeat backdrop.	-												
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-												
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-												
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-				F			I	I				
Mixed Zone	15-20 linear mtrs.	1	15-20 linear mtrs.	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I	I	F							R	IOC,IF	
Press Tribune	-	-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	-	Tabled seating is fitted out with telephones, television monitors, power and other press facilities (indoor venues). For outdoor venues, these services will exist in VMC.	-												
Press Tabletop Seating	Varies	Varies	Varies	-	-	Easy access from Venue Media Centre and direct access if possible to Mixed Zone.	<u>In an existing stadium or seating area:</u> 1 seat wide (folding chairs at 60 cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50 cm deep tabletop per position, each position = 2 stadium seats. <u>Temporary Stands:</u> 1 seat (folding chairs at 60 cm spacing) x 2 rows deep of proposed seating system (normally 150 cm-170 cm deep).	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.			I	F						R	IOC,IF	
Press Seating (non-tabled)	Varies	Varies	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.			I	F							R	IOC,IF
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided												
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-												
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	In close proximity to FOP.	Total number of expected photographers at medal sessions: 80. 60cm wide x 90cm deep per position, multi-row areas require 60cm riser per row.	Power, Wireless and data cabling needed to photo positions on FOP.	J	I	J								R	IOC, IF
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Normal seating areas.	See Venue Seating for quantities by sport.	Seating areas are generally not applicable for outdoor venues.	I	I	F								G	IOC
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-												

WEIGHTLIFTING

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Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Security																				
Security Command Centre	120	1	120	145	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.										P		
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-												
Security Work Area	15	1	15	-	An area for additional security agencies.	-	-	-												
CCTV Surveillance & Video Desk	15	1	15	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-												
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.												
Radio Dispatch & Monitoring	15	1	15	-	An area for the monitoring and control of security communication and the distribution/return of radios.	-	-	-												
Work Room	50	1	50	-	Open plan of work stations designated for security personnel.	-	-	-												
Secure Storage	10	1	10	-	An area for Security equipment storage.	-	Enclosed, secure space.	-												
Dog Cage(s)	4	Varies	Varies	8 (each)	Holding area for security dogs.	-	Area only for enclosed portable units (e.g. cages).	Dependent upon Host City/Country / Risk Assessment.							F					
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-											P	
Briefing and Break Area / Staging Area	140	1	140	170	Area for briefing staff before and after shifts.	-	Enclosed space.	Assumes tent.					J	J						
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.					J	J					P	
Vehicle Screening & Sanitisation Area	569	1	569	800	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.							I	F			P	
Vehicle Queue	175	1	175	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-												
Oversized Vehicle Queue	140		140	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-												
Vehicle Sanitisation & Wanding Areas	150		75	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.												
Oversized Vehicle (Truck & Bus) Sanitisation	70		70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-												
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.												
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Enclosed space for staging and break.	-												
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the venue secure perimeter and/or venue screening area for constituents.	-	Dependent upon spectator capacity and venue design.										F	G	P
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-												
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-	I		F							I	P	
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-	I		F							I	P	
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.	I	I	F							I	P	

WEIGHTLIFTING

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Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the venue secure perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.										R	IOC
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the venue secure perimeter.	Enclosed space for screening/search area positions.. Net area for each screening position will accommodate the following: 4 Wanding Stations, OR 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue. Dependent upon spectator capacity and venue design.											
Athlete / Team	18	1-2	18-36	36-72	-	BOH.	-	-				F						R	IOC
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with Athlete and/or Olympic Family.				F						G	IOC
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with TO, ENG and/or Press.				F						P	
Broadcast	18	1-2	18-36	45-90	-	BOH.	-	If possible, direct access from outside venue perimeter into Broadcast Compound.											
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	BOH; located in close proximity to Venue Broadcast Compound.	-	-											
Press and Photographer	18	1-2	18-36	36-72	-	BOH; located in close proximity to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast).	If possible, direct access from outside venue perimeter into Venue Media Centre.				F	I						
Workforce (Staff/Volunteer/Contractor/Vendor)	18	2-3	36-54	90-135	-	BOH or possibly FOH.	-	-				J	J					P	
Spectator / Sponsors	18	Varies	Varies	54	-	FOH.	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-	I			F							P
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.				F		I					P
Exception Gate	Varies	Varies	Varies	-	Access gate for designated accredited personnel.	FOH; located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.				F							P
X-ray of bags	36	Varies	Varies	72 (each)	Device for screening bags/equipment coming into the venue.	FOH and BOH.	Covered.	-				F	I						P
Venue Perimeter Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	Dependent upon spectator capacity and venue design.											
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	1m to 3m width, sometimes used as a secondary service vehicle exit point.	-											
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m each, number varies per concourse design.	-											
Workforce (Staff/Volunteer/Contractor/Vendor)	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	Size dependant upon total workforce numbers.				I	F				G	P	
Sponsor Services																			
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.				I	F						P

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Sport Operations																			
Competition Management	60	1	60	90	A work area for Sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located close to Athlete Area and FOP; may be co-located within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space.	I			F						P	
Competition Manager & Asst. Manager Desks	12	1	12	-	An area for the Manager and Assistant(s) Manager.	-	-	-											
Assigned Work Area	20	1	20	-	Open plan of work stations designated for Sport personnel.	-	-	-											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Area	18	1	18	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-											
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-											
Sport Information	20	1	20	30	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located in Athlete Area.	Enclosed space with waiting area and seating.	Includes: information boards, pigeon holes, Info & Help Desk, work area, info terminal stations & storage.	J			J						R	IF
Athlete Lounge	80	1	80	130	An area where athletes can relax at the venue while not training or competing.	Located in Athlete Area.	-	Includes: seating area, lounge, Info & Help Desk, info terminal stations.	J			J						R	IF
Athlete Dressing, Locker, Shower, Toilet	60	2	120	150	Change-room facilities to accommodate athletes at the venue during competition and training.	Located in Athlete Area.	Enclosed space. Number of athletes accommodated by size standard is sport specific.	Sauna to accommodate 8 athletes at a time (facilities for men and women). Assumes container units or existing space.	J			J						R	IF
Athlete Weigh-in	20	2	40	50	A room and a waiting area for official weigh-in and a room for checking bodyweight.	Located in close proximity to Athlete change rooms and FOP.	A room and a waiting area for official weigh-in; a room for checking bodyweight. 1 official venue weigh-in facility (combined for both male and female athletes).	Each training site will have weigh-in facilities.	J			J						R	IF
IF & Sport Meeting Room	30	1	30	45	Meeting facility at the venue for the International Federation and Competition Management.	Located in close proximity to the IF Area and Competition Management area.	Enclosed space.	Shared meeting room area between IF & Sport to serve various meeting needs.	J			J						G	IF
FOP Equipment Storage	30	1	30	40	Storage of equipment required for competition.	Located adjacent to FOP or within close proximity.	-	-	I			F	I					R	IF
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	Reference should be made to IWF guidelines for all FOP technical requirements.	-											
Playing Surface Dimensions or Area	16	1	16	144	-	-	A 4m x 4m platform on stage. Large stage, 12m x 12m; elevated to a height of: 1m.	See IWF requirements for more specific FOP requirements.	F			I						R	IF
Vertical Height Requirement	5m	1	5m	-	-	-	See IWF requirements.	High enough to accommodate boards.	F			I	I					R	IF
Surface	-	-	-	-	-	-	See IWF requirements.	-	J			J	I					R	IF
Working Officials Platform	-	-	-	-	Area for officials on duty (Jury, referees, loaders, technical controllers, doctors on duty, Technical Delegates).	Within FOP designated positions.	Tables and Equipment - See IWF requirements.	-	I			F	I					R	IF
Sports Lighting - Technical	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

WEIGHTLIFTING

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Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	-	-	-											
Warm-up Surface Dimensions or Area	9	Varies	Varies	-	-	Close proximity to FOP/stage.	Space to accommodate warm-up platforms 3m x 3m each. 8-12 platforms for the warm-up area.	See IWF requirements.	J		J				I	J		R	IF
Vertical Height Requirement	5m	1	5m	-	-	-	-	See IWF requirements.	J		J	I				J		R	IF
Surface	-	-	-	-	-	-	Ground statically hard, covering material may vary.	See IWF requirements.	J		J	I				J		R	IF
Athlete / Team Seating	-	-	-	-	A designated seating area for athletes.	-	-	-	J	I	J					J			
Same Sport	-	Varies	-	-	-	-	-	-	J	I	J					I		R	IOC,IF
Different Sport	-	Varies	-	-	-	-	-	-	I	I	F					I		R	IOC
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	May be required for Sport Staff use. Quantity varies according to athlete numbers.					F					P	
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	Required if FOP is not located near Athlete Area.	Assumes temporary units. Quantity varies according to athlete numbers.					F					P	
International Federation																			
IF Area	60	1	60	65	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located in close proximity to accredited seating areas.	Enclosed space.	Assumes container units or existing space.	I	I	F							R	IF
IF President's Office	15	1	15	-	-	-	-	-	I	I	F							R	IF
IF Secretary - General/Executive Director's Office	15	1	15	-	-	-	-	-	I		F							G	IF
Reception, Secretariat, Waiting & Work Area	30	1	30	-	-	-	-	-	I		F							G	IF
IF Meeting Area	-	-	-	-	-	-	See Venue Management - Multi-Purpose Room.	-											
Lounge-International Technical Officials	80	1	80	100	Rest area for officials.	Located in close proximity to FOP.	Enclosed space.	Assumes container units or existing space.	J		J							G	IF
Technical Delegates Office & Work Area	15	1	15	20	Office area for Technical Delegates.	-	Enclosed space. 2 Technical Delegates.	-	I	I	F					I		R	IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I	J	J					J		R	IOC,IF
Sport Presentation																			
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.											
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-			F							P	
Announcer Position	3	1	3	-	-	-	-	-			F							P	
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space, consisting of work area, green room, entertainer staging and dressing and prop storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.					F					P	

WEIGHTLIFTING

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Technology Operations																			
Technology Help Desk	16	1	16	20	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support staff & manager.	-				F						P	
Venue Technology Operations (VTO)	25	1	25	32	OCOG Technology Operations area. Operational work space for entire Venue Technology team, including Partners & contractors.	Adjacent to or within Venue Operations Centre (VOC).	Medium security - lockable room. Air-conditioned as office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	-				F					G	P	
OCOG Venue Technology Work Area	-	1	-	-	Work space for Venue Technology Manager, Assistant Venue Technology Manager, Technology Workforce Manager and associated volunteer(s).	-	-	Work space size may be dependent upon workforce per shift.											
AV Contractor Work Area	-	1	-	-	Work space for AV contractors/Technicians.	-	-	Work space size may be dependent upon workforce per shift.											
IT Provider Work Area	-	1	-	-	Work space for IT workforce and "home base" for IT volunteers.	-	-	Work space size may be dependent upon workforce per shift.											
Reprographic Provider Work Area	-	1	-	-	Work space for reprographic contractors/technicians	-	-	Work space size may be dependent upon workforce per shift.											
Mobile Phone Provider Work Area	-	1	-	-	Workspace for mobile phone provider.	-	-	Work space size may be dependent upon workforce per shift. Charging area for Venue Operations workforce phones may be required.											
Wired Communications Provider Work Area	-	1	-	-	Work space for Wired Communications contractors/technicians.	-	-	Work space size may be dependent upon workforce per shift.											
Timing & Scoring/OVR Provider Work Area	-	1	-	-	Work space for OVR/Timing & Scoring contractors/technicians.	-	-	May not be required if adequate working space is allocated in OVR room.											
Radio Distribution Room (RDR)	15	1	15	18	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E and workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).	I			F						P	
Information Technology																			
Computer Equipment Room (CER)	16	1	16	20	Location for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.	I			F					G	P	
Data Local Area Network (LAN) Management Room & Store	25	1	25	32	LAN monitoring room & associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational staff & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces.				F					G	P	

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Telecommunication & Audio Visual																			
Telecomm. Equipment Room (TER) Primary	36	1	36	45	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	Raised flooring is preferable for cabling distribution, but not essential.		I		F							P
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER.	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.		I		F							P
Telecomm. Operations & Store	25	1	25	32	Operational space for Telecommunications technical staff and associated storage for spare parts.	Adjacent to TER.	As TER with adequate FF&E to support operational staff & storage.	If located adjacent to TER, power supply boards, UPS units & A/C services can be common for both spaces.		I		F							P
Audio Control Positions																			
	-	-	-	-	-	-	-	-				F						G	P
Venue	4	1	4	8	Area within Sport Production, location for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Production. Can be on FOP, in stands or in a booth with view to FOP.	High Security. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	Storage for country anthems.											
Press Conference	4	1	4	8	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), air-conditioned, waterproof. Work space & FF&E for operator.	PA system may also be used for Competition Draw if draw is held in Press Conference room.											
Warm-Up Area	2	1	2	4	Athlete Call Up PA system required for facilitate call to mat. Space required for amplifier/microphone.	Within Warm-up area for Athletes.	Standard/mains power & FF&E.	PA system may also be used for Competition Draw if draw is held in Warm-up area.											
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-											
Workforce Break/Dining	2	Varies	Varies	-	Area within Staff Break/Training room where audio control equipment is installed to facilitate meetings/training of large numbers of staff.	Workforce break/dining areas.	Standard/mains power & FF&E.	-											
Video Board Control	4	1	4	8	Location of video control for video board or video projection system. Operations integral with those of Sport Production.	Ideally with Sport Production. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	-				F						G	P
Wired Communications Control	2	1	2	4	Location of wired communications master control station and support technician. System essential to operations of both Sport Production and Results/FOP management.	Near to or within Sport Production is preferable. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location is located outdoors. Good cable access to FOP, OVR Room, Sport Production, Broadcast Graphics Room & Results Printing required. Workspace & FF&E for one technician, control equipment, spare parts and containers/boxes for equipment.	-				F						G	P
Temporary PA equipment Room	2 min	1	2 min	4 min.	Temporary location for installation of PA active equipment (amplifiers etc) for venue PA system.	In existing PA equipment room, if applicable. May be located under venue seating/tribunes if existing room not available.	High Security. Fully redundant power (mains & standby generator) to equipment. Good cable access to speaker location and PA/Audio Control position required. Equipment installed in racks. Each rack set is 1000H x 600W x 600 D maximum.	Number of racks will depend on size of system deployed. Generally venues with large geographic area (outdoor) require larger installation and therefore more racks of amplifier equipment.					F						P

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Timing, Scoring and Results Operations																			
Results Data Entry Position	-	-	-	-	Location(s) for event results and/or statistics data entry during competition.	As noted below.	High Security. Fully redundant power (mains & generator) with UPS to all results data entry equipment/workstations. Space & FF&E for all data entry personnel & results management staff.	Adequate weather (rain/sun) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
Field of Play - Mat 1, 2, 3	3	3	9	12	Areas/positions for results data entry at each mat.	Position located at each Mat on FOP with timing, scoring & sport mat officials.	-	May occur as a position on the FOP, or in a room with a view to the FOP.											
Field of Play - Official Table	3	1	3	6	Area/position for results data entry and event control.	Position located at Officials Table on FOP.													
Weigh-In & Draw Data Entry	4	4	16	20	Athletes' weigh-in & competition draw are performed by Sport every 2nd day of competition for WR & data to be entered into OVR system by OVR provider. Workspace required for operators & data entry workstations at each weigh-in draw location.	Usually draw & weigh-in performed in warm-up area of venue.	Number of positions for weigh-in & draw data entry may change depending on sport requirements.	Occurs Back of House in weigh in area. If data entry is not performed "live" during the weigh in, then data may be passed manually to OVR provider after completion of the weigh in by Sport, who then input to system within the OVR room.											
Timing and Scoring Position	-	-	-	-	Location(s) for event timing & scoring personnel & equipment during competition.	Sport Specific. However, all locations must have view to FOP	High Security Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards & OVR room. Space & FF&E for operators and equipment. Adequate weather (rain/sun) protection for equipment/workstations to be provided.	-	I	I	I	F						R	IF, Swatch
Field of Play - Mat 1, 2, 3	3	3	9	12	-	Position located at each Mat on FOP with timing, data entry & sport mat officials.	-	-											
On Venue Results (OVR)	-	-	-	-	Location is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	Easy access to FOP critical for technical and results staff.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Space & FF&E required for high density of computer workstations, racks for servers and working space for technicians, operators and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or venues where two sports occur concurrently will require more space for additional OVR equipment.	I	F								P	
OVR Provider Work Area	20	1	20	25	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO/CIS/PRD etc).	Ideally adjacent to IT provider work area.	Space required in OVR to support RTDS equipment.	-											
IT Provider Work Area	18	1	18	23	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-											
Broadcast Graphics Support Room	25	1	25	32	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results.	-											
Scoreboard Control	-	-	-	-	Location of scoreboard control operations. Operations integral with those of Sport Production, data provided from OVR System. Space for both Control and Interface workstations & 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.	I	F							G	P	
Scoreboard Control	2	1	2	4	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator & workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-											
Scoreboard Interface	2	1	2	4	Area for interface equipment (PC workstations) linking OVR system & Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-											

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Results Printing (PRD)	60	1	60	75	Location for hard copy results production & distribution. Location of high intensity work involving many staff preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area & position for the Print Distribution Workstation (IDS interface) equipment and operator.	Near/adjacent to Press Workroom, access to Press Tribunes, Broadcast Commentary Positions, Sport Information Desk, Doping & Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specification. Space & FF&E required for equipment and operational staff as well as space for 1 x pallet of paper to support print/copy operations.	-	I	I	I	F						R	IF, Swatch
TV Graphics Interface	9	3	27	34	Locations where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics for each FOP/Mat of WR.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operators & good cable access to OVR room.	-				I		F			G	P	
Technology Storage																			
Technology General Storage	15	1	15	18	Location for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F					G	P	
IT Bulk Storage	30	1	30	38	Storage area for all spare IT equipment & associated boxes/containers.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to IT provider at all times.				F					G	P	
Reprographic Primary Storage Area	12	1	12	15	Primary storage/technical area in-venue for reprographic provider. Storage for spare parts, additional devices and consumables serving primarily Results Printing Operations.	In venue location adjacent to, or within Results Printing Room.	High Security - lockable. Standard office environment with standard power. Workspace & FF&E for one technician.	-	I		F						G	P	
Reprographic Bulk Storage Area	12	1	12	15	Storage area for bulk paper allocated to venue (multiple pallets).	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of paper required to support venue operations.				F					G	P	
Timing and Scoring Workshop	10	1	10	13	In venue storage & workshop for timing equipment, spare parts & small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.	-	I		F						G	P	
Timing & Scoring Bulk Store	40	1	40	50	Storage area for large crates & containers used for scoreboards and bulk equipment. Must be accessible to OVR provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of Timing & Scoring equipment deployed to venue. May be combined with Timing & Scoring Workshop if location & size of space meet requirements for venue.	I		F						G	P	
Audio Visual Bulk Store	30	1	30	38	Storage area for large crates & containers used for video boards, PA equipment & TV boxes. Must be accessible to Video/Public address provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of audio/video equipment deployed to venue.				F					G	P	
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closet. CCFs are to be installed in locations that allow for easy access for service technicians and which allow for easy cable access both from TER room and to user device locations.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Work Room.	High Security - lockable and weatherproof. May require fan or dedicated A/C depending on room location and/or configuration. Fully redundant power (mains and generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.	I		F							P	
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of power from data/voice and audio-visual cabling.	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in an manner which allows for easy access and repair/replacement. Legacy installations are to be installed as permanent while temporary (overlay) should be installed using methods which are easily installed and removed minimising potential damage to existing venue.				F						P	
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.	-	-	-											
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.	-	-	-											
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.	-	-	-											

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CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	-												
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	-												
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-												
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-												
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-												
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-												
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-												
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing and Scoring/OVR contractor.	I		F								P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.												
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I		F								P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the videoboard. Required for outdoor venues where the videoboards cannot be suspended from ceiling structure.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each videoboard.												
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Production on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I		F							G	P	
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to/from audio/PA amplification system and/or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend PA speakers from venue ceiling structure.	-	-	-												
Mobile Phone Infrastructure (antenna)	-	Varies	-	-	Infrastructure required to support installation of additional radio antenna & mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to/from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.	I		F							G	P	

WEIGHTLIFTING

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Ticketing																			
Ticket Box Office	40	1	40	100	An area at the venue where Olympic tickets are sold.	Adjacent to the secure perimeter; near the spectator entry point of the venue	Gross area includes internal & external queue.	Assumes container unit with disabled access to internal and external service window. Dependant upon venue layout and footprint, spectator access point locations.											P
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	15	1	15	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s)	15	1	15	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	25	1	25	50	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.											P
Driver Staging	80	1	80	150	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.											P
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside venue secure perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	20	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-											P
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from Host City, based on vehicle/bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J								P
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J								P
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F							P
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.											G IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.											G IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.	I		F								G IOC
Spectator and Staff Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.											P
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F							P
Accessible	-	-	-	-	-	-	-	Part of Spectator total.											P
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Surface areas paved or gravel.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have drop-off in close proximity to accredited entry point and then driver driver will park.			I	F							P
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.											P
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.											P
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-			J	J							P
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes vehicle circulation.											P
Emergency Services	-	-	-	50 (each)	-	Generally located inside the Secure Venue Perimeter.	-	Includes vehicle circulation.											P
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.											P
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.	-			I	F							P

WEIGHTLIFTING

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.		I			F					P	
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.											
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-	-											
Venue Development																			
Site Management Compound	503	1	503	650	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Dependent upon venue footprint, extent of temporary works and number of contractors.					F					P	
Site Management Area	60	1	60	-	-	-	Enclosed space.	-											
Site Manager & Assistant Site Manager(s) Work Area	12	1	12	-	Work and meeting area for the Site Manager and Assistant Site Manager.	-	-	-											
Site Administration Desk & Work Area	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-	-											
Response Team & Vendor Staging	24	1	24	-	On-site permanent and temporary facilities for specialty staff and general labor crew to be on-call.	-	-	-											
Secure Storage - Site Management	12	1	12	-	Area for storage.	-	-	-											
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.	-	Enclosed space. Area for office, staging and a secure storage area.	Assumes container units or existing space. Contractor usually installs container units at their own cost.											
Sign/Look Staging, Work Space/Secure Storage	50	1	50	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	-	Assumes container unit or existing space.											
Material Warehouse/Construction Work Space	80	1	80	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	-	Enclosed space.	Assumes tent or canopy with 2 side walls. Area for carpentry, painting and general construction. Storage for non-weather proof materials.											
Vendor Secure Storage	60	1	60	-	Area for containers, usually provided by the various temporary construction sub-contractors.	-	Enclosed space.	Assumes container units or existing space.											
Materials Staging Area	50	1	50	-	Area for the off-loading and loading of bulk construction materials.	-	Area only.	-											
Exterior Storage Area	50	1	50	-	Outdoor storage of material and products.	-	Area only.	Weatherproof area for large and bulk materials.											
Vehicle Staging	90	1	90	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	-	Area only.	Service, Repair & Specialty vehicles.											
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											

WEIGHTLIFTING

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Venue Management																			
Venue Operations Centre (VOC)	60	1	60	90	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Dependent upon venue capacity and venue layout.										P	
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-					F						
Assigned Desks	20	1	20	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Space and Storage	18	1	18	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	40	1	40	50	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.					F					P	
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	24	1	24	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	8-10 people.											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	150	1	150	180	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre.	Enclosed space.	Assumes existing space or tent. Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.					F					P	
Workforce																			
Workforce Area	150	1	150	180	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.					F					P	
Check-In Area	96	1	96	-	Area to log-in venue staff and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Area	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	335	1	335	400	The space where workforce meals are served and where workforce can break during their shift.	A location that will provide easy access to all workforce for breaks and meals; will vary according to venue layout/size.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon venue workforce numbers.					F					P	
END OF DOCUMENT																			

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation				
Accreditation																							
Venue Accreditation Office	50	1	50	125	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.										P	-				
Day Pass Issue & Problem Resolution Desk	15	1	15	-																			
Work Area	15	1	15	-																			
Manager Desk or Office & Storage	12	1	12	-																			
Waiting Area	8	1	8	-																			
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	-	Enclosed space. Required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.					F					P	-				
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.															
Broadcast																							
Broadcast Compound	-	1	-	4000	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements.															
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Gross area includes snow removal access. Assumes container unit.										R	IOC				
Broadcast Manager Office	12	1	12	-		-	-	-	-										G	IOC			
Work Room, Assigned and Unassigned Desks	48	1	48	-		-	-	-	-														
Technical Operations Centre	40	1	40	100	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.										R	IOC				
Broadcast Catering	140	1	140	180	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	-															
Kitchen and Prep	20	1	20	-		-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.														
Buffet Line and Dining	120	1	120	-		-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.														
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements.															
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-															
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters.															
Work Area(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-															
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.															
Toilets	1.5	8	12	36	Toilet units designated for broadcast personnel.	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.															
Commentator Control Room (CCR)	55	1	55	65	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in close proximity to commentator position area.	Enclosed space with incoming television cable.	Assumes existing space or container unit.										R	IOC				
Broadcast Information Office (BIO)	20	1	20	25	Space for broadcast management and team meetings.	Located near commentator positions and CCR	Enclosed space.	Assumes existing space or container unit.										R	IOC				
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-										G	IOC				
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J							R	IOC				
Mixed Zone	20 linear mtrs.	1	20 linear mtrs.	170	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Adjacent to the FOP.	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I	I	J							R	IOC, IF				
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in seating areas with view to FOP and covered when possible.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Outdoor commentator positions should have the option of cover for protection from various weather conditions (e.g. sun, rain). Space for commentator positions may vary according to actual venue/permanent seating setup.										R	IOC				

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	Located at the rear of the commentator grouping so as not to disrupt the FOP view of other commentator positions.	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	A com-cam position equals 2 adjacent commentator positions.			I	J			J	I			
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions.	1 position = uses 1 seat in existing seating bowls.	-			I	J			J	I		R	IOC
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval. Space for camera positions may vary according to actual venue/permanent seating setup.	J		I	J			J	J		R	IOC
Camera Position - Other	4	30	120	270	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	Space for camera positions may vary according to actual venue/permanent seating setup.	I		I	J			J	I		R	IOC
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-					J	I	J			G	IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	See also Technology requirements.					J	I	J			G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in Back of House areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.					J	I	J			G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography	J			J	I	J	I			R	IOC
Catering																			
Catering Compound	565	1	565	850	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity. Gross area includes snow removal access.		I		F						P	
Work Areas - Catering Management	28	1	28	-		-	Enclosed space.	Assumes existing space or container.											
Organising Committee Catering Manager	-	-	-	-		Located in Venue Operations Centre.	See Venue Management - VOC.	-											
Catering Contractor	16	1	16	-		-	-	-											
Beverage Contractor	12	1	12	-	Operational work space(s).	-	-	-											
Dry, Cold and Ice Storage	38	6	228	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.											
Vehicle Staging	90	1	90	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-											
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-											
Kitchen and Preparation Area	80	1	80	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.											
Uncovered Storage	75	1	75	-	Outdoor storage of material and products.	-	Area only.	-											
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilets should be provided.											
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit.	-											
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container's). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity and level of catering activity.		I		F						P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	-	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	See Look for details.	-		I		F						P	

WRESTLING

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Ceremonies																				
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-											P	
Ceremonies Staging	36	1	36	45	For the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule; to coordinate location of podium, procession, and recession route, and location of flagpoles.	Adjacent to or close to FOP.	Consists of coordinator work space with area for anthem storage, secure storage, preparation and dressing area; see below for additional details.	Assumes existing space or container.											P	
Manager Desk	6	1	6	-	Workspace for Manager.	-	-	-												
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenters, Medal/Flower staging, Secure medal and flag storage	22	1	22	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format. Medals storage is not required for those venues where the medal ceremony will take place at another location.												
Presenter Preparation and Dressing	4	2	8	-	A dressing and preparation area for Presenters.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-												
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	Close to FOP.	Limited use, may be shared with other space. See Sport Presentation.	-		I									P	
Awards Podium Storage	12	1	12	15	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	-			I	F							P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.	I		J	J					J	G	R	IOC
Cleaning and Waste																				
Cleaning & Waste Compound	252	1	252	350	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependant upon venue capacity.											P	
Vehicle Staging	72	1	72	-	Parking area for collection vehicles which generally remain inside the venue.	-	Area only.	-												
Sorting Area	72	1	72	-	Area for sorting waste.	-	Area only.	-												
Waste & Recycle Containers	15	4	60	-	Area in front of waste and recycle bins where material is separated for containment.	-	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).												
Compactor Unit	25	Varies	Varies	-		-	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.												
Equipment Supply & Storage	15	2	30	-	Space for cleaning equipment and paper product.	-	Enclosed space.	Assumes container unit.												
Contractor Office	18	1	18	-	Space for management and workforce staging.	-	Enclosed space.	-												
Doping Control																				
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	-	J		J	J							R	IOC
Waiting Area/Reception	26	1	26	30	Area where athletes check-in and wait prior to testing.	-	-	-												
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Blood Processing Room(s)	15	Varies	Varies	20 (each)	Area where athlete blood samples are provided and sealed	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Office / Storage	12	1	12	15	Work and storage space for Doping Manager.	-	Enclosed space. Secure storage.	-												
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-	I		J	J							R	IOC

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.					F					P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of workforce pre-shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large group.	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.					F					P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.					F					P	
Information Desk	-	-	-	-	-	-	-	-											
Lost and Found	-	-	-	-	A holding area for items found in the venue.	-	-	-											
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spectators.	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	-	-	Will depend on level of service at venue.					F					P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes; located between screening/search area and spectator plaza.	Total number generally 50% of security screening positions.					F					P	
Stroller Storage	Varies	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	In close proximity to seating area.	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.					F					P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.					F					P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators					F					P	
Spectator Shade and Shelter	Varies	Varies	Varies	72 (each)	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and spectator service amenities.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.					F					P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-					F					P	
Spectator Toilets	1.5	Varies	Varies	5 (each) 6 (per 20 toilets)	Toilet units designated for spectators.	Located in FOH, close proximity to seating and spectator amenities.	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.					F					P	
Hand Wash Stations	1	Varies	Varies		A chemical unit used in the absence of potable water.	Located in FOH, close proximity to seating and spectator amenities.	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.					F					P	

WRESTLING

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Finance																				
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I			F					P		
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Generally located inside venue perimeter and outside venue perimeter.	Area only.	Dependant upon venue capacity.												
Language Services																				
Work Area / Desk	20	1	20	25	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre.	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-		J	J			I				G	IOC	
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference needs.	-		J	J			I				G	IOC	
Logistics																				
Logistics Compound	-	1	Varies	650	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access. Secondary Compound Area - an additional compound area may be necessary for staging or storage of equipment that is in close proximity to FOP and/or the finish area.											P	
Logistics Centre	60	1	60	-	-	-	Enclosed space.	Assumes container units or tent.												
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-												
Team Staging/Work Area	33	1	33	-	Space for staging and a work area.	-	-	-												
Secure Storage & Equipment Sign-out	15	1	15	-	Area for storage.	-	Storage for tools.	-												
Warehouse Storage	90	1	90	-	Storage area for furniture, fixtures, and equipment (FF&E).	-	Enclosed space.	Assumes tent												
Storage Yard	75	1	75	-	Outside storage area within compound.	-	Area only.	-												
Vehicle Staging	100	1	100	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-												
Fuel Tank(s)	9	Varies	Varies	25 (each)	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.												
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.												
Material Transfer Area (MTA)	-	1	-	575	Generally for deliveries to the venue that may take place after hours or not within the logistics delivery window period.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.											P	
X-Ray Area	36	1	36	72	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.												

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Look of the Games																			
Work Area and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.					F					P	
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J					J		R	IOC
National Olympic Committee (NOC) Flags	Varies	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events) and competition format.	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.			J	J				J		R	IOC
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and back of locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J				J	G	R,P	IOC, IF
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals.	-											
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH).	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.		I	J	J				J	G	R	IOC, L
Backdrop - Press Conference Room	2.2 x 6	-	-	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F		I	I				
Medical Services																			
Athlete Medical	65	1	65	100	An area where Medical provides services to athletes competing at the venue.	Located in Back of House within the accredited athlete area.	Enclosed space.	Assumes container or existing space.	J	J	J							R	IF
Reception & Waiting	12	1	12	-	Area where athletes check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Physiotherapy Area(s)	8	2	16	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J							S	IF
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.											
Spectator Medical	50	1	50	100	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed space. 1 per 20,000 spectators.	Assumes container unit or existing space.		I	F	I						P	
Reception & Waiting	12	1	12	-	Area where spectators check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	12	1	12	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Triage Station	36	1	38	72	Additional space to treat minor medical needs of spectators.	Located in the Front of House.	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.		I	F	I						P	
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.				F	I					P	
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Area only. Paved, graveled or grass area with fence, barricade or rope enclosure.	-			F	I						P	

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Merchandise																				
Office, Cash Room & Work Area	12	1	12	15		-	Enclosed space with secure entry.	Assumes container unit or existing space.					F					P		
Storage	15	2	30	35	An area to manage the retailing of all Olympic merchandise inside the venue.	-	-	Assumes storage containers or existing space. Units provided by vendor. Quantity and location decided by vendor and OCOG.				F						P		
Program Sales Stands/Booths	1	1	1	2		-	Area only.					F						P		
Merchandise Points of Sale (POS)	6	Varies	Varies	18 (each)	Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.	Gross area is per each P.O.S. and includes service area and queue.		I		F						P		
Outlets' Look	-	-	-	-	Look required for concessionaire units.	-	Venue merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.			I	J	J						G	R	IOC
Olympic Family Services																				
Olympic Family Lounge	240	1	240	500	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes tent.	I		I	F					I	G	G	IOC
Welcome Desk and Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-													
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.													
Staff/Volunteer Room and Storage	12	1	12	-	On-call waiting area for Protocol staff and equipment storage.	-	-													
Dining and Lounge	140	1	140	-	Area for dining and lounge.	-	-													
Preparation/Buffer set-up/Beverage Area	70	1	70	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Staff/Volunteer, Athlete, Media)													
Toilets	30	1	30	60	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	4 female, 4 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided				F							P	
Protocol flags	-	-	-	-	-	-	See Look of the Games.				J	J							R	IOC
Press Operations																				
Venue Media Centre (VMC)	400	1	400	600	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Confer	Close proximity to Press Tribune, Press Conference room, and Mixed Zone area.	Enclosed space for 150 press and 30 photographers.	Assumes tent.				F							R	IOC
Reception & Information Desk	18	1	18	-	1	-	-													
Storage	4	1	4	-	Equipment storage.	-	-													
Press Manager Office	12	1	12	-	Operational work space.	-	-													
Photo Manager Office	12	1	12	-	Operational work space.	-	-													
Olympic News Service (ONS) Work Room or Area	25	1	25	-	Operational work space.	-	Enclosed space.													
Info Stations	20	1	20	-	Computer stations and printers.	-	-													
Press Work Room or Area	170	1	170	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.												
Photo Work Room or Area	35	1	35	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.													
Photographers Check-in & Photo Bib Distribution	9	1	9	-	Area where photographers register and receive/return photo bibs.	-	-													
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.												
Lounge/Catering Prep	70	1	70	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-													
Toilets	1.5	6	9	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided												

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	I	J	F	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Press Conference Room	100	1	100	210	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I				F							R	IOC	
Seating Area	60	1	60	-	An area for accredited press.	-	Seats and standing room.	-														
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3.6 m table, 8 chairs & step and repeat backdrop.	-														
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-														
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-														
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-						F			I	I				
Mixed Zone	15-20 linear mtrs.	1	15-20 linear mtrs.	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I			I	F							R	IOC,IF	
Press Tribune	-	-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	-	Tabled seating is fitted out with telephones, television monitors, power and other press facilities (indoor venues). For outdoor venues, these services will exist in VMC.	-														
Press Tabletop Seating	Varies	Varies	Varies	-	-	Easy access from Venue Media Centre and direct access if possible to Mixed Zone.	<u>In an existing stadium or seating area:</u> 1 seat wide (folding chairs at 60 cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50 cm deep tabletop per position, each position = 2 stadium seats. <u>Temporary Stands:</u> 1 seat (folding chairs at 60 cm spacing) x 2 rows deep of proposed seating system (normally 150 cm-170 cm deep).	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.					I	F						R	IOC,IF	
Press Seating (non-tabled)	Varies	Varies	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.					I	F						R	IOC,IF	
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided														
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-														
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	In close proximity to FOP.	Total number of expected photographers at medal sessions: 80. 60cm wide x 90cm deep per position, multi-row areas require 60cm riser per row.	Power, Wireless and data cabling needed to photo positions on FOP.	J			I	J							R	IOC, IF	
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Normal seating areas.	See Venue Seating for quantities by sport.	Seating areas are generally not applicable for outdoor venues.	I			I	F							G	IOC	
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-														

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Security																				
Security Command Centre	120	1	120	145	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.										P		
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-												
Security Work Area	15	1	15	-	An area for additional security agencies.	-	-	-												
CCTV Surveillance & Video Desk	15	1	15	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-												
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.												
Radio Dispatch & Monitoring	15	1	15	-	An area for the monitoring and control of security communication and the distribution/return of radios.	-	-	-												
Work Room	50	1	50	-	Open plan of work stations designated for security personnel.	-	-	-												
Secure Storage	10	1	10	-	An area for Security equipment storage.	-	Enclosed, secure space.	-												
Dog Cage(s)	4	Varies	Varies	8 (each)	Holding area for security dogs.	-	Area only for enclosed portable units (e.g. cages).	Dependent upon Host City/Country / Risk Assessment.							F					
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-											P	
Briefing and Break Area / Staging Area	140	1	140	170	Area for briefing staff before and after shifts.	-	Enclosed space.	Assumes tent.					J	J						
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.					J	J					P	
Vehicle Screening & Sanitisation Area	569	1	569	800	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.							I	F			P	
Vehicle Queue	175	1	175	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-												
Oversized Vehicle Queue	140		140	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-												
Vehicle Sanitisation & Wanding Areas	150		75	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.												
Oversized Vehicle (Truck & Bus) Sanitisation	70		70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-												
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.												
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Enclosed space for staging and break.	-												
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the venue secure perimeter and/or venue screening area for constituents.	-	Dependent upon spectator capacity and venue design.									F		G	P
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-												
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-	I		F								P	
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-	I		F								P	
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.	I	I	F								P	

WRESTLING

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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the venue secure perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.										R	IOC
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the venue secure perimeter.	Enclosed space for screening/search area positions.. Net area for each screening position will accommodate the following: 4 Wanding Stations, OR 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue. Dependent upon spectator capacity and venue design.											
Athlete / Team	18	1-2	18-36	36-72	-	BOH.	-	-				F						R	IOC
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with Athlete and/or Olympic Family.				F						G	IOC
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with TO, ENG and/or Press.				F						P	
Broadcast	18	1-2	18-36	45-90	-	BOH.	-	If possible, direct access from outside venue perimeter into Broadcast Compound.											
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	BOH; located in close proximity to Venue Broadcast Compound.	-	-											
Press and Photographer	18	1-2	18-36	36-72	-	BOH; located in close proximity to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast).	If possible, direct access from outside venue perimeter into Venue Media Centre.				F	I						
Workforce (Staff/Volunteer/Contractor/Vendor)	18	2-3	36-54	90-135	-	BOH or possibly FOH.	-	-				J	J					P	
Spectator / Sponsors	18	Varies	Varies	54	-	FOH.	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-	I			F							P
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.				F		I					P
Exception Gate	Varies	Varies	Varies	-	Access gate for designated accredited personnel.	FOH; located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.				F							P
X-ray of bags	36	Varies	Varies	72 (each)	Device for screening bags/equipment coming into the venue.	FOH and BOH.	Covered.	-				F	I						P
Venue Perimeter Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	Dependent upon spectator capacity and venue design.											
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	1m to 3m width, sometimes used as a secondary service vehicle exit point.	-											
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m each, number varies per concourse design.	-											
Workforce (Staff/Volunteer/Contractor/Vendor)	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	Size dependant upon total workforce numbers.				I	F				G	P	
Sponsor Services																			
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.				I	F						P

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Sport Operations																			
Competition Management	60	1	60	90	A work area for Sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located close to Athlete Area and field of play; may be co-located within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space.	I				F					P	
Competition Manager & Asst. Manager Desks	12	1	12	-	An area for the Manager and Assistant(s) Manager.	-	-	-											
Assigned Work Area	20	1	20	-	Open plan of work stations designated for Sport personnel.	-	-	-											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Area	18	1	18	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-											
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-											
Sport Information	40	1	40	50	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located in Athlete Area.	Enclosed space with waiting area and seating.	Includes: information boards, pigeon holes, Info & Help Desk, work area, info terminal stations & storage.	J									R	IF
Athlete Lounge	150	1	150	190	An area where athletes can relax at the venue while not training or competing.	Located in Athlete Area.	-	Includes: seating area, lounge, Info & Help Desk, info terminal stations.	J									R	IF
Athlete Dressing, Locker, Shower, Toilet	30	2	60	80	Change-room facilities to accommodate athletes at the venue during competition and training.	Located in Athlete Area.	Enclosed space. Separate male and female facilities.	Assumes container units or existing space.	J									R	IF
Athlete Weigh-in	20	1	20	25	A room and a waiting area for official weigh-in.	Located in close proximity to Athlete change rooms and FOP.	A room and a waiting area for official weigh-in.	The drawing is viewed by competitors and officials, normally watching in the stands on a video screen.	J									R	IF
IF & Sport Meeting Room	30	1	30	45	Meeting facility at the venue for the International Federation and Competition Management.	Located in close proximity to the IF Area and Competition Management area.	Enclosed space.	Shared meeting room area between IF & Sport to serve various meeting needs.	J									G	IF
FOP Equipment Storage	75	1	75	100	Storage of equipment required for competition.	Located adjacent to FOP or within close proximity.	Enclosed space.	-	I									R	IF
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	Reference should be made to FILA guidelines for all FOP technical requirements.	-											
Playing Surface Dimensions or Area	12 x 12	3	432	26 x 52 = 1352	-	-	3 mats for Olympic Competition; a mat with a 9 metre diameter and a 1.5m border of the same mat thickness is required. Total mat area = 12m x 12m. Total area requirement: 26 x 52 metres. Raised platform requirements: 14x40, with a height not greater than 1.10m. If the border or free space around the mat does not equal 2m, the platform shall be equipped with 45° degree sloping panels.	See FILA requirements for more specific FOP requirements.	F									R	IF
Vertical Height Requirement	-	-	-	-	-	-	See FILA requirements	-	F									R	IF
Surface	-	-	-	-	-	-	Mat and flooring near mat shall be covered with a soft covering fastened into place.	-	J									R	IF
Orientation	-	-	-	-	-	-	See FILA requirements	-	J									R	IF
Sports Lighting - Technical	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

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Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	Located adjacent to competition area.	Reference should be made to FILA guidelines for all warm-up technical requirements.	-											
Warm-up Surface Dimensions or Area	-	-	-	-	-	-	See FILA requirements	-	J			J			I	J		R	IF
Vertical Height Requirement	-	-	-	-	-	-	See FILA requirements	-	J			J	I		J			R	IF
Surface	-	-	-	-	-	-	See FILA requirements	-	J			J	I		J			R	IF
Orientation	-	-	-	-	-	-	See FILA requirements	-	I			F	I					R	IF
Athlete / Team Seating	-	-	-	-	A designated seating area for athletes.	-	-	-	J	I	J					J			
Same Sport	-	Varies	-	-	-	-	-	-	J	I	J				I			R	IOC,IF
Different Sport	-	Varies	-	-	-	-	-	-	I	I	F				I			R	IOC
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	May be required for Sport Staff use. Quantity varies according to athlete numbers.					F						P
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	Required if FOP is not located near Athlete Area.	Assumes temporary units. Quantity varies according to athlete numbers.					F						P
International Federation																			
IF Area	60	1	60	65	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located in close proximity to accredited seating areas.	Enclosed space.	Assumes container units or existing space.	I	I	F							R	IF
IF President's Office	15	1	15	-	-	-	-	-	I	I	F							R	IF
IF Secretary - General/Executive Director's Office	15	1	15	-	-	-	-	-	I		F							G	IF
Reception, Secretariat, Waiting & Work Area	30	1	30	-	-	-	-	-	I		F							G	IF
Jury and Appeals Room	30	1	30	35	Area to view video sequences.	-	Enclosed space.	Assumes container units or existing space.	I		F							R	IF
Lounge - International Technical Officials	20	1	20	25	Rest area for officials.	-	Enclosed space.	Assumes container units or existing space.	J		J							G	IF
Technical Delegates Office & Work Area	15	1	15	20	Office area for Technical Delegates.	-	Enclosed space. 2 Technical Delegates.	Assumes container units or existing space.	I	I	F				I			R	IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I	J	J				J			R	IOC,IF
Sport Presentation																			
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.											
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-			F								P
Announcer Position	3	1	3	-	-	-	-	-			F								P
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space, consisting of work area, green room, entertainer staging and dressing and prop storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.					F						P

WRESTLING

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Technology Operations																			
Technology Help Desk	16	1	16	20	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support staff & manager.	-				F						P	
Venue Technology Operations (VTO)	25	1	25	32	OCOG Technology Operations area. Operational work space for entire Venue Technology team, including Partners & contractors.	Adjacent to or within Venue Operations Centre (VOC).	Medium security - lockable room. Air-conditioned as office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	-				F					G	P	
OCOG Venue Technology Work Area	-	1	-	-	Work space for Venue Technology Manager, Assistant Venue Technology Manager, Technology Workforce Manager and associated volunteer(s).	-	-	Work space size may be dependent upon workforce per shift.											
AV Contractor Work Area	-	1	-	-	Work space for AV contractors/Technicians.	-	-	Work space size may be dependent upon workforce per shift.											
IT Provider Work Area	-	1	-	-	Work space for IT workforce and "home base" for IT volunteers.	-	-	Work space size may be dependent upon workforce per shift.											
Reprographic Provider Work Area	-	1	-	-	Work space for reprographic contractors/technicians	-	-	Work space size may be dependent upon workforce per shift.											
Mobile Phone Provider Work Area	-	1	-	-	Workspace for mobile phone provider.	-	-	Work space size may be dependent upon workforce per shift. Charging area for Venue Operations workforce phones may be required.											
Wired Communications Provider Work Area	-	1	-	-	Work space for Wired Communications contractors/technicians.	-	-	Work space size may be dependent upon workforce per shift.											
Timing and Scoring/OVR Provider Work Area	-	1	-	-	Work space for OVR/Timing & Scoring contractors/technicians.	-	-	May not be required if adequate working space is allocated in OVR room.											
Radio Distribution Room (RDR)	15	1	15	18	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E and workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).	I			F						P	
Information Technology																			
Computer Equipment Room (CER)	16	1	16	20	Location for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room and Telecommunications TER Room.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.	I			F					G	P	
Data Local Area Network (LAN) Management Room & Store	25	1	25	32	LAN monitoring room & associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational staff & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces.				F					G	P	

WRESTLING

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Telecommunication & Audio Visual																				
Telecomm. Equipment Room (TER) Primary	36	1	36	45	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	Raised flooring is preferable for cabling distribution, but not essential.		I		F							P	
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER.	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.		I		F							P	
Telecomm. Operations & Store	25	1	25	32	Operational space for Telecommunications technical staff and associated storage for spare parts.	Adjacent to TER.	As TER with adequate FF&E to support operational staff & storage.	If located adjacent to TER, power supply boards, UPS units & A/C services can be common for both spaces.		I		F							P	
Audio Control Positions																				
	-	-	-	-	-	-	-	-				F						G	P	
Venue	4	1	4	8	Area within Sport Production, location for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Production. Can be on FOP, in stands or in a booth with view to FOP.	High Security. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	Storage for country anthems.												
Press Conference	4	1	4	8	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), air-conditioned, waterproof. Work space & FF&E for operator.	PA system may also be used for Competition Draw if draw is held in Press Conference room.												
Warm-Up Area	2	1	2	4	Athlete Call Up PA system required for facilitate call to mat. Space required for amplifier/microphone.	Within Warm-up area for Athletes.	Standard/mains power & FF&E.	PA system may also be used for Competition Draw if draw is held in Warm-up area.												
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-												
Workforce Break/Dining	2	Varies	Varies	-	Area within Staff Break/Training room where audio control equipment is installed to facilitate meetings/training of large numbers of staff.	Workforce break/dining areas.	Standard/mains power & FF&E.	-												
Video Board Control	4	1	4	8	Location of video control for video board or video projection system. Operations integral with those of Sport Production.	Ideally with Sport Production. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	-				F						G	P	
Wired Communications Control	2	1	2	4	Location of wired communications master control station and support technician. System essential to operations of both Sport Production and Results/FOP management.	Near to or within Sport Production is preferable. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location is located outdoors. Good cable access to FOP, OVR Room, Sport Production, Broadcast Graphics Room & Results Printing required. Workspace & FF&E for one technician, control equipment, spare parts and containers/boxes for equipment.	-				F						G	P	
Temporary PA equipment Room	2 min	1	2 min	4 min.	Temporary location for installation of PA active equipment (amplifiers etc) for venue PA system.	In existing PA equipment room, if applicable. May be located under venue seating/tribunes if existing room not available.	High Security. Fully redundant power (mains & standby generator) to equipment. Good cable access to speaker location and PA/Audio Control position required. Equipment installed in racks. Each rack set is 1000H x 600W x 600 D maximum.	Number of racks will depend on size of system deployed. Generally venues with large geographic area (outdoor) require larger installation and therefore more racks of amplifier equipment.					F						P	

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Timing, Scoring and Results Operations																			
Results Data Entry Position	-	-	-	-	Location(s) for event results and/or statistics data entry during competition.	As noted below.	High Security. Fully redundant power (mains & generator) with UPS to all results data entry equipment/workstations. Space & FF&E for all data entry personnel & results management staff.	Adequate weather (rain/sun) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, Swatch
Field of Play - Mat 1, 2, 3	3	3	9	12	Areas/positions for results data entry at each mat.	Position located at each Mat on FOP with timing, scoring & sport mat officials.	-	May occur as a position on the FOP, or in a room with a view to the FOP.											
Field of Play - Official Table	3	1	3	6	Area/position for results data entry and event control.	Position located at Officials Table on FOP.	-	-											
Weigh-In & Draw Data Entry	4	4	16	20	Athletes' weigh-in & competition draw are performed by Sport every 2nd day of competition for WR & data to be entered into OVR system by OVR provider. Workspace required for operators & data entry workstations at each weigh-in draw location.	Usually draw & weigh-in performed in warm-up area of venue.	Number of positions for weigh-in & draw data entry may change depending on sport requirements.	Occurs Back of House in weigh in area. If data entry is not performed "live" during the weigh in, then data may be passed manually to OVR provider after completion of the weigh in by Sport, who then input to system within the OVR room.											
Timing and Scoring Position					Location(s) for event timing & scoring personnel & equipment during competition.	Sport Specific. However, all locations must have view to FOP	High Security Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards & OVR room. Space & FF&E for operators and equipment.	-	I	I	I	F						R	IF, Swatch
Field of Play - Mat 1, 2, 3	3	3	9	12	-	Position located at each Mat on FOP with timing, data entry & sport mat officials.	-	-											
On Venue Results (OVR)	-	-	-	-	Location is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	Easy access to FOP critical for technical and results staff.	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Space & FF&E required for high density of computer workstations, racks for servers and working space for technicians, operators and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or venues where two sports occur concurrently will require more space for additional OVR equipment.			I	F						P	
OVR Provider Work Area	20	1	20	25	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO/CIS/PRD etc).	Ideally adjacent to IT provider work area.	Space required in OVR to support RTDS equipment.	-											
IT Provider Work Area	18	1	18	23	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-											
Broadcast Graphics Support Room	25	1	25	32	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results.	-											
Scoreboard Control	-	-	-	-	Location of scoreboard control operations. Operations integral with those of Sport Production, data provided from OVR System. Space for both Control and Interface workstations & 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.										G	P
Scoreboard Control	2	1	2	4	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator & workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-											
Scoreboard Interface	2	1	2	4	Area for interface equipment (PC workstations) linking OVR system & Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-											

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Results Printing (PRD)	60	1	60	75	Location for hard copy results production & distribution. Location of high intensity work involving many staff preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area & position for the Print Distribution Workstation (IDS interface) equipment and operator.	Near/adjacent to Press Workroom, access to Press Tribunes, Broadcast Commentary Positions, Sport Information Desk, Doping & Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specification. Space & FF&E required for equipment and operational staff as well as space for 1 x pallet of paper to support print/copy operations.	-	I	I	I	F						R	IF, Swatch
TV Graphics Interface	9	3	27	34	Locations where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics for each FOP/Mat of WR.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operators & good cable access to OVR room.	-				I		F			G	P	
Technology Storage																			
Technology General Storage	15	1	15	18	Location for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F					G	P	
IT Bulk Storage	30	1	30	38	Storage area for all spare IT equipment & associated boxes/containers.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to IT provider at all times.				F					G	P	
Reprographic Primary Storage Area	12	1	12	15	Primary storage/technical area in-venue for reprographic provider. Storage for spare parts, additional devices and consumables serving primarily Results Printing Operations.	In venue location adjacent to, or within Results Printing Room.	High Security - lockable. Standard office environment with standard power. Workspace & FF&E for one technician.	-	I		F						G	P	
Reprographic Bulk Storage Area	12	1	12	15	Storage area for bulk paper allocated to venue (multiple pallets).	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of paper required to support venue operations.				F					G	P	
Timing and Scoring Workshop	10	1	10	13	In venue storage & workshop for timing equipment, spare parts & small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.	-	I		F						G	P	
Timing & Scoring Bulk Store	40	1	40	50	Storage area for large crates & containers used for scoreboards and bulk equipment. Must be accessible to OVR provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of Timing & Scoring equipment deployed to venue. May be combined with Timing & Scoring Workshop if location & size of space meet requirements for venue.	I		F						G	P	
Audio Visual Bulk Store	30	1	30	38	Storage area for large crates & containers used for video boards, PA equipment & TV boxes. Must be accessible to Video/Public address provider at all times.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	Quantity of audio/video equipment deployed to venue.				F					G	P	
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required to distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closet. CCFs are to be installed in locations that allow for easy access for service technicians and which allow for easy cable access both from TER room and to user device locations.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Work Room.	High Security - lockable and weatherproof. May require fan or dedicated A/C depending on room location and/or configuration. Fully redundant power (mains and generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.	I		F							P	
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of power from data/voice and audio-visual cabling.	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in an manner which allows for easy access and repair/replacement. Legacy installations are to be installed as permanent while temporary (overlay) should be installed using methods which are easily installed and removed minimising potential damage to existing venue.				F						P	
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.	-	-	-											
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.	-	-	-											
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.	-	-	-											

WRESTLING

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	-											
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	-											
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-											
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-											
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-											
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-											
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-											
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing and Scoring/OVR contractor.	I			F							P
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.											
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F							P
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the videoboard. Required for outdoor venues where the videoboard cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each videoboard.											
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Production on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F						G	P
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to/from audio/PA amplification system and/or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend PA speakers from venue ceiling structure.	-	-	-											
Mobile Phone Infrastructure (antenna)	-	Varies	-	-	Infrastructure required to support installation of additional radio antenna & mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to/from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.	I			F						G	P

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Ticketing																			
Ticket Box Office	40	1	40	100	An area at the venue where Olympic tickets are sold.	Adjacent to the secure perimeter; near the spectator entry point of the venue	Gross area includes internal & external queue.	Assumes container unit with disabled access to internal and external service window. Dependant upon venue layout and footprint, spectator access point locations.											P
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	15	1	15	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s)	15	1	15	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	25	1	25	50	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.											P
Driver Staging	80	1	80	150	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.											P
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside venue secure perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	20	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-											P
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from Host City, based on vehicle/bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J								P
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J								P
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F							P
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.				F							G IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.				F							G IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.			I	F							G IOC
Spectator and Staff Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				F							P
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F							P
Accessible	-	-	-	-	-	-	-	Part of Spectator total.				F							P
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Surface areas paved or gravel.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have drop-off in close proximity to accredited entry point and then driver will park.			I	F							P
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.				F							P
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.				F							P
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-			J	J							P
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes vehicle circulation.				F							P
Emergency Services	-	-	-	50 (each)	-	Generally located inside the Secure Venue Perimeter.	-	Includes vehicle circulation.				F							P
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.											P
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.	-											P

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G- GenericSpace	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.		I			F					P	
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.											
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-	-											
Venue Development																			
Site Management Compound	503	1	503	650	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Dependent upon venue footprint, extent of temporary works and number of contractors.					F					P	
Site Management Area	60	1	60	-	-	-	Enclosed space.	-											
Site Manager & Assistant Site Manager(s) Work Area	12	1	12	-	Work and meeting area for the Site Manager and Assistant Site Manager.	-	-	-											
Site Administration Desk & Work Area	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-	-											
Response Team & Vendor Staging	24	1	24	-	On-site permanent and temporary facilities for specialty staff and general labor crew to be on-call.	-	-	-											
Secure Storage - Site Management	12	1	12	-	Area for storage.	-	-	-											
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.	-	Enclosed space. Area for office, staging and a secure storage area.	Assumes container units or existing space. Contractor usually installs container units at their own cost.											
Sign/Look Staging, Work Space/Secure Storage	50	1	50	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	-	Assumes container unit or existing space.											
Material Warehouse/Construction Work Space	80	1	80	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	-	Enclosed space.	Assumes tent or canopy with 2 side walls. Area for carpentry, painting and general construction. Storage for non-weather proof materials.											
Vendor Secure Storage	60	1	60	-	Area for containers, usually provided by the various temporary construction sub-contractors.	-	Enclosed space.	Assumes container units or existing space.											
Materials Staging Area	50	1	50	-	Area for the off-loading and loading of bulk construction materials.	-	Area only.	-											
Exterior Storage Area	50	1	50	-	Outdoor storage of material and products.	-	Area only.	Weatherproof area for large and bulk materials.											
Vehicle Staging	90	1	90	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	-	Area only.	Service, Repair & Specialty vehicles.											
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											

WRESTLING

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Venue Management																			
Venue Operations Centre (VOC)	60	1	60	90	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Dependent upon venue capacity and venue layout.										P	
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-					F						
Assigned Desks	20	1	20	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Space and Storage	18	1	18	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	40	1	40	50	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.					F					P	
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	24	1	24	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	8-10 people.											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	150	1	150	180	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre.	Enclosed space.	Assumes existing space or tent. Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.					F					P	
Workforce																			
Workforce Area	150	1	150	180	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.					F					P	
Check-In Area	96	1	96	-	Area to log-in venue staff and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Area	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	Sun screen, daily news letter, competition schedule, etc.	-											
Workforce Break & Dining Area	335	1	335	400	The space where workforce meals are served and where workforce can break during their shift.	A location that will provide easy access to all workforce for breaks and meals; will vary according to venue layout/size.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon venue workforce numbers.					F					P	
END OF DOCUMENT																			

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R - Requirement, G - Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation				
Accreditation																							
Venue Accreditation Office	50	1	50	125	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.											P				
Day Pass Issue & Problem Resolution Desk	15	1	15	-																			
Work Space	15	1	15	-																			
Manager Desk or Office & Storage	12	1	12	-																			
Waiting Area	8	1	8	-																			
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	Located in the Back of House area, on the perimeter of an accredited area and/or entry.	Enclosed space. May be required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.				F							P				
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.				F											
Broadcast																							
Broadcast Compound	-	1	-	5000	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, normally in the Back of House area, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements.															
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.				I		F				G	IOC				
Broadcast Manager Office	12	1	12	-	-	-	-	-															
Work Room, Assigned & Unassigned Desks	48	1	48	-	-	-	-	-															
Technical Operations centre	40	1	40	100	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.				I		F				R	IOC				
Broadcast Catering	140	1	140	180	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	-															
Kitchen & Prep	20	1	20	-	-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.															
Buffet Line & Dining	120	1	120	-	-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.															
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements.															
Work Space(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-															
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters.															
Work Space(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-															
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.															
Toilets	1.5	8	12	36	-	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.															
Secondary Broadcast Compound	-	-	-	230	Serves as a secondary unit to the main compound to house various broadcast technical needs that are required for Broadcast to cover the full competition FOP or area.	Located adjacent to FOP.	Area only. Required on venues where size of FOP or location of Primary Compound exceeds cabling capabilities.	Specific elements are venue/sport specific.				J		J				R	IOC				
Toilets	1.5	2	3	-	Toilet units designated for broadcast personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.															
Commentator Control Room (CCR)	10	1	10	15	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in Back of House area, in close proximity to commentator position area.	Enclosed space with incoming television cable.	Assumes existing space or container unit.				I		F				R	IOC				
Broadcast Information Office (BIO)	20	1	20	25	Space for broadcast management and team meetings.	Back of House area; located near commentator positions and CCR.	Enclosed space.	Assumes existing space or container unit.				J		J				R	IOC				
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-				J		J				G	IOC				
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J			J				R	IOC				

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Mixed Zone	50	1	50	100	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Located in the Back of House, adjacent to the FOP.	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I		J				J			R	IOC, IF
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in cabins and/or container units with view to FOP and finish areas.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Commentator positions at outdoor venues are normally located in temporary cabin/container/trailer units.			I	J			J			R	IOC
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	Located in cabins and/or container units with view to FOP and finish areas.	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	-			I	J			J				
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions.	1 position = uses 1 seat in existing seating bowls.	-			I	J			J			R	IOC
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval.	J		I	J			J			R	IOC
Camera Position - Other	4	35	140	315	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	-	I		I	J			J			R	IOC
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-				J	I		J			G	IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	See also Technology requirements.				J	I		J			G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in Back of House areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.				J	I		J			G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography, in conjunction with OBS and IFs.	J		J	I			J	I		R	IOC
Catering																			
Catering Compound	565	1	565	1020	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity.		I		F						P	
Work Spaces - Catering Management	28	1	28	-	Operational work space(s).	Located in Back of House area.	Enclosed space.	Gross area includes snow removal access.											
Organising Committee Catering Manager	-	-	-	-	-	Located in Venue Operations Centre.	See Venue Management - VOC.	Assumes existing space or container.											
Catering Contractor	16	1	16	-	-	-	-	-											
Beverage Contractor	12	1	12	-	-	-	-	-											
Dry, Cold and Ice Storage	38	6	228	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.											
Vehicle Staging	90	1	90	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-											
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-											
Kitchen and Preparation Area	80	1	80	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.											
Uncovered Storage	75	1	75	-	Outdoor storage of material and products.	-	Area only.	-											
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilets should be provided.											
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit.	-											
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in the Front of House, in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container's). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity and level of catering activity.		I		F						P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	Located in the Front House area, adjacent to spectator points of sale.	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	Located in the Front House area, adjacent to spectator points of sale.	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Outlets' Look	-	-	-	-	-	-	See Look for details.	-	I		F							P	

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Ceremonies																			
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-			I	F						P	
Ceremonies Staging	36	1	36	45	Area to coordinate ceremonies; e.g. podium, procession, recession route and flags. .	Adjacent to or close to FOP.	Consists of coordinator work space with area for anthem storage, secure storage, preparation and dressing area; see below for additional details.	Assumes existing space or container.			I	F						P	
Manager Desk	6	1	6	-	Workspace for Manager.	-	-	-											
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.											
Presenters, Medal/Flower staging, Secure medal and flag storage	22	1	22	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format. Medals storage is not required for those venues where the medal ceremony will take place at another location.											
Presenter Preparation and Dressing	4	2	8	-	A dressing and preparation area for Presenters.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-											
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	Close to FOP.	Limited use, may be shared with other space. See Sport Presentation.	-		I	F							P	
Awards Podium Storage	12	1	12	15	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	-		I	F							P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.	I	J	J						G	R	IOC
Cleaning and Waste																			
Cleaning & Waste Compound	252	1	252	420	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House (BOH) area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependant upon venue capacity. Gross area includes snow removal access.				F						P	
Vehicle Staging	72	1	72	-	Parking area for collection vehicles which generally remain inside the venue.	BOH	Area only.	-											
Sorting Area	72	1	72	-	Area for sorting waste.	BOH	Area only.	-											
Waste & Recycle Containers	15	4	60	-	Area in front of waste and recycle bins where material is separated for containment.	BOH	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).											
Compactor Unit	25	Varies	Varies	-	-	BOH	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.											
Equipment Supply & Storage	15	2	30	-	Space for cleaning equipment and paper product.	BOH	Enclosed space.	Assumes container unit.											
Contractor Office	18	1	18	-	Space for management and workforce staging.	BOH	Enclosed space.	-											
Doping Control																			
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	-	J	J	J							R	IOC
Waiting Area/Reception	26	1	26	30	Area where athletes check-in and wait prior to testing.	-	-	-											
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).											
Blood Processing Room(s)	15	Varies	Varies	20 (each)	Area where athlete blood samples are provided and sealed	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).											
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer. Wash basin for hand sanitisation.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).											
Office / Storage	12	1	12	15	Work and storage space for Doping Manager.	-	Enclosed space. Secure storage.	-											
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-	I	J	J							R	IOC

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Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.										P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of workforce pre-shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large group.	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.					F					P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.										P	
Information Desk	-	-	-	-	-	-	-	-											
Lost and Found	-	-	-	-	A holding area for items found in the venue.	-	-	-											
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spectators.	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	-	-	Will depend on level of service at venue.										P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes; located between screening/search area and spectator plaza.	Total number generally 50% of security screening positions.										P	
Stroller Storage	Varies	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	In close proximity to seating area.	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.										P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.										P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators										P	
Spectator Shade and Shelter	Varies	Varies	Varies	72 (each)	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and spectator service amenities.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.										P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-										P	
Spectator Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators.	Located in FOH, close proximity to seating and spectator amenities.	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.										P	
Hand Wash Stations	1	Varies	Varies	6 (per 20 toilets)	A chemical unit used in the absence of potable water.	Located in FOH, close proximity to seating and spectator amenities.	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.										P	

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Finance																				
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I		F							P	
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Located in Front of House, both inside venue perimeter and outside venue perimeter.	Area only.	Quantity dependent upon venue capacity.		I		F							P	
Language Services																				
Work Space / Desk	20	1	20	25	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre (VOC).	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-			J	J			I			G	IOC	
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference need	-			J	J			I			G	IOC	
Logistics																				
Logistics Compound	-	1	-	780	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access. Secondary Compound Area - an additional compound area may be necessary for staging or storage of equipment that is in close proximity to FOP and/or the finish area.											P	
Logistics Centre	60	1	60	-	-	-	Enclosed space.	Assumes container units or tent.												
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-												
Team Staging/Work Space	33	1	33	-	Space for staging and a work area.	-	-	-												
Secure Storage & Equipment Sign-out	15	1	15	-	Area for storage.	-	Storage for tools.	-												
Warehouse Storage	90	1	90	-	Storage area for furniture, fixtures, and equipment (FF)	-	Enclosed space.	Assumes tent												
Storage Yard	75	1	75	-	Outside storage area within compound.	-	Area only.	-												
Vehicle Staging	100	1	100	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-												
Fuel Tank(s)	9	Varies	Varies	25 (each)	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.												
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.												
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.												
Material Transfer Area (MTA)	-	1	-	575	Generally for deliveries to the venue that may take place after hours or not within the logistics delivery window period.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.												P
X-Ray Area	36	1	36	72	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.												

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Look of the Games																				
Work Space and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.											P	
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J					J		R	IOC	
National Olympic Committee (NOC) Flags	Varies	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events) and competition format.	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.			J	J				J		R	IOC	
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and Back of House locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J				J	G	R, P	IOC, IF	
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals.	-												
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH).	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.		I	J	J					J	G	R	IOC, L
Backdrop - Press Conference Room	2.2 x 6	1	2.2 x 6	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F		I	I					
Outlets' Look	-	-	-	-	Look required for concessionaire units.	Located in FOH.	Venue catering and merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-	I			F							P	
Medical Services																				
Athlete Medical	65	1	65	100	An area where Medical provides services to athletes competing at the venue.	Located in Back of House within the accredited athlete area.	Enclosed space.	Assumes container or existing space.	J		J	J							R	IF
Reception & Waiting	12	1	12	-	Area where athletes check-in and wait prior to examination.	-	-	-												
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-												
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-												
Physiotherapy Area(s)	8	2	16	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-												
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J		J	J							S	IF
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.												
Spectator Medical	50	1	50	100	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed space. 1 per 20,000 spectators.	Assumes container unit or existing space.			I	F		I					P	
Reception & Waiting	12	1	12	-	Area where spectators check-in and wait prior to examination.	-	-	-												
Medical Work Space & Secure Storage	12	1	12	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-												
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-												
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Triage Station	36	1	38	72	Additional space to treat minor medical needs of spectators.	Located in the Front of House.	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.		I	F		I						P	
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only. For Winter Games, the ambulances may need heated shelters or access to electrical outlets for block heaters and protection from snow and ice.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.				F		I				P		
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Area only. Paved, graveled or grass area with fence, barricade or rope enclosure.	-			F		I						P	

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Merchandise																				
Office, Cash Room & Work Space	12	1	12	15	An area to manage the retailing of all Olympic merchandise inside the venue.	-	Enclosed space with secure entry.	Assumes container unit or existing space.				F						P		
Storage	15	2	30	35	-	-	-	Assumes storage containers or existing space.				F						P		
Program Sales Stands/Booths	1	1	1	2	-	-	Area only.	Units provided by vendor. Quantity and location decided by vendor and OCOG.				F						P		
Merchandise Points of Sale (POS)	6	Varies	Varies	18 (each)	Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.	Gross area is per each P.O.S. and includes service area and queue.	I			F						P		
Outlets' Look	-	-	-	-	-	-	See Look for details.	-	I	J	J							G	R	IOC
Olympic Family Services																				
Olympic Family Lounge	240	1	240	500	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes tent.	I		I	F						G	G	IOC
Welcome Desk and Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-	-												
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.	-												
Workforce/Volunteer Room and Storage	12	1	12	-	On-call waiting area for Protocol workforce and equipment storage.	-	-	-												
Dining and Lounge	140	1	140	-	Area for dining and lounge.	-	-	-												
Preparation/Buffer set-up/Beverage Area	70	1	70	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Workforce/Volunteer, Athlete, Media)	-												
Toilets	30	1	30	60	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	4 female, 4 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided				F							P	
Protocol flags	-	-	-	-	-	-	See Look of the Games.	-			J	J							R	IOC
Press Operations																				
Venue Media Centre (VMC)	903	1	903	1150	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Conference Room and Photo Positions.	Close proximity to Press Conference Room and Mixed Zone area.	Enclosed space for press and photographers.	Based on the concept and plan for the Games, if the mountain venues and city venues, including the Main Press Centre, are separated by more than one hour of travel time, a mountain sub-MPC will need to be established. The size of this facility should be no less than 3,000 sq. m. plus adjacent transport hub and logistics compound. This facility will offer additional facilities and services for the media in the mountains, including private rental offices, image centre, extended operating hours and catering. The site of the sub-MPC should be that of the Venue Media Centre for the Alpine skiing events.				F						R	IOC	
Reception & Information Desk	30	1	30	-	Welcome desk at the entrance, for information distribution.	-	-	-												
Storage	10	1	10	-	Equipment storage.	-	-	-												
Press Manager Office	15	1	15	-	Operational work space.	-	-	-												
Photo Manager Office	15	1	15	-	Operational work space.	-	-	-												
IF Media Office	15	1	15	-	Operational work space.	-	-	-												
Olympic News Service (ONS) Work Room or Area	30	1	30	-	Operational work space.	-	Enclosed space.	-												
Info Stations	30	1	30	-	Computer stations and printers.	-	-	-												
Press Work Room or Area	400	1	400	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.												
Photo Work Room or Area	140	1	140	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.	-												
Photographers Check-in & Photo Bib Distribution	20	1	20	-	Area where photographers register and receive/return photo bibs.	-	-	-												
Locker Area	1.5	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.												
Lounge/Catering Preparation	180	1	180	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-	-												
Toilets	1.5	12	18	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided												

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R - Requirement, G - Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Press Conference Room	230	1	230	340	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I			F						R	IOC
Seating Area	180	1	180	-	An area for accredited press.	-	Seats and standing room.	-											
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3.6 m table, 8 chairs & step and repeat backdrop.	-											
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-											
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-											
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-				F			I	I			
Mixed Zone	200	1	200	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I		I	F						R	IOC,IF
Press Tribune	-	-	-	-	A section of the standing in the Mixed Zone area (outdoor venues) and of the seating (indoor venues) dedicated to accredited journalists and photographers.	-	For outdoor venues telephones, television monitors, power and other press facilities are existing in the VMC.	-											
Standing Area in the Mixed Zone	Varies	Varies	Varies	-	An area for accredited press.	For outdoor venues, located near finish area or outrun of course area.	An open, corralled area.	Exceptions may exist at various venues.			I	F						R	IOC,IF
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided											
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-											
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	Located along FOP.	60 cm wide x 90 cm deep per position, multi-row areas require 60 cm riser per row.	Power, Wireless and data cabling needed to photo positions on FOP.	J		I	J						R	IOC, IF
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Normal seating areas.	-	Seating areas are generally not applicable for outdoor venues.	I		I	F						G	IOC
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

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Security																				
Security Command Centre	120	1	120	145	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.											P	
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-												
Security Work Space	15	1	15	-	An area for additional security agencies.	-	-	-												
CCTV Surveillance & Video Desk	15	1	15	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-												
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.												
Radio Dispatch & Monitoring	15	1	15	-	An area for the monitoring and control of security communication and the distribution/return of security radios.	-	-	-												
Work Room	50	1	50	-	Open plan of work stations designated for security personnel.	-	-	-												
Secure Storage	10	1	10	-	An area for Security equipment storage.	-	Enclosed, secure space.	-												
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-												P
Briefing and Break Area / Staging Area	140	1	140	170	Area for briefing workforce before and after shifts.	-	Enclosed space.	Assumes tent.					J	J						
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.						J	J					P
Vehicle Screening & Sanitisation Area	569	1	569	800	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.												P
Vehicle Queue	175	1	175	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-												
Oversized Vehicle Queue	140		140	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-												
Vehicle Sanitisation & Wanding Areas	150		75	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.												
Oversized Vehicle (Truck & Bus) Sanitisation	70		70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-												
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.												
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Enclosed space for staging and break.	-												
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the venue secure perimeter and/or venue screening area for constituents.	-	Dependent upon spectator capacity and venue design.												
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-	I											P
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-						F						P
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-						J	J					P
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.												P

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Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the venue secure perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.									G	P	
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the venue secure perimeter.	Enclosed space for screening/search area positions.. Net area for each screening position will accommodate the following: 4 Wanding Stations, OR - 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue. Dependent upon spectator capacity and venue design.											
Athlete / Team	18	1-2	18-36	36-72	-	BOH.	-	-	I			F							P
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with Athlete and/or Olympic Family.	I			F							P
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with TO, ENG and/or Press.	I		I	F							P
Broadcast	18	1-2	18-36	45-90	-	BOH.	-	If possible, direct access from outside venue perimeter into Broadcast Compound.				F		I			R		IOC
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	BOH; located in close proximity to Venue Broadcast Compound.	-	-											
Press and Photographer	18	1-2	18-36	36-72	-	BOH; located in close proximity to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast).	If possible, direct access from outside venue perimeter into Venue Media Centre.				F						R	IOC
Workforce (Staff/Volunteer/Contractor/Vendor)	18	2-3	36-54	90-135	-	BOH or possibly FOH.	-	-				F						G	IOC
Spectator / Sponsors	18	Varies	Varies	54	-	FOH.	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-				F							P
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.											
Exception Gate	Varies	Varies	Varies	-	Access gate for designated accredited personnel.	FOH; located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.											
X-ray of bags	36	Varies	Varies	72 (each)	Device for screening bags/equipment coming into the venue.	FOH and BOH.	Covered.	-				I		F			G	P	
Venue Perimeter Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	Dependent upon spectator capacity and venue design.				F		I					P
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	1m to 3m width, sometimes used as a secondary service vehicle exit point.	-											
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m each, number varies per concourse design.	-											
Workforce (Staff/Volunteer/Contractor/Vendor)	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	Size dependant upon total workforce numbers.											
Sponsor Services																			
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.				I		F					P

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Sport Operations																			
Competition Management	50	1	50	65	A work area for sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located in Back of House, in close proximity to athlete area and FOP; may be co-located within the Venue Operations Centre (VOC).	Enclosed space.	Area/space requirements may vary according to venue layout/FOP layout, alpine disciplines or other ski disciplines sharing venues, and/or the host city venue setup/agreement.	I									P	
Competition Manager & Asst. Manager Desks	15	1	15	-	An area for the manager and assistant(s) manager.	-	-	-											
Assigned Work Space	10	1	10	-	Open plan of work stations designated for Sport personnel.	-	-	-											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Space	15	1	15	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-											
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-											
Sport Information	20	1	20	25	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located adjacent to athlete area.	Enclosed space with waiting area and seating.	Includes: information boards, pigeon holes, Info & Help Desk, work area, info terminal stations & storage.	J		J							R	IF
Results Posting Area	3	1	3	-	An area for posting race results.	Located adjacent to athlete area.	Area only.	-											
Athlete Lounge	140	1	140	180	An area where athletes, coaches, and service personnel can relax at the venue while not training or competing.	Located in athlete area or in close proximity.	Enclosed space.	Includes: seating area, lounge, Info & Help Desk, info terminal stations.	J		J							R	IF
Athlete Wax Cabins	-	-	-	-	Change-room facilities to accommodate athletes at the venue during competition and training; additionally, a separate area used by the service personnel and coaches for working on equipment and waxing skis.	Located in athlete area, adjacent to FOP.	Enclosed space; large compound like area for containers and/or trailers. Level surface area for placement of containers and/or trailers. with easy access for vehicles. Measurement for each cabin is 67m ² . Separate male and female facilities required.	Number of cabins will vary according to final team/athlete numbers. Gross area may vary according to placement of containers; Gross area should include the area required for snow removal equipment/vehicles. Assumes cabins/container units.	J		J							G	IF
Downhill and Super-G Events	67	Varies	Varies	120 (each)	-	-	-	-											
Ski Manufacturer Cabin	-	-	-	-	An area where ski equipment manufacturers provide services to athletes.	Located in the Back of House, in close proximity to Athlete areas.	Enclosed space; an area for placement of containers and/or trailers.	Number will vary according to number of manufacturer requests. Assumes cabins/container units.	J		J							G	IF
Downhill and Super-G Events	35	Varies	Varies	60 (each)	-	-	-	-											
IF & Sport Meeting Room	30	1	30	45	Meeting facility at the venue for team captains and other sport related meeting needs.	Located in close proximity to the IF Area and Competition Management area.	Enclosed space.	Shared meeting room area between IF & Sport to serve various meeting needs.	J		J							G	IF
Sport Equipment Storage	60	1	60	90	Storage for athlete/team sport equipment.	Located in athlete areas.	Enclosed, secure space.	-	J		J	I						R	IF
Overnight Ski Storage	60	2	120	180	Storage for ski equipment.	Located near FOP finish area.	Enclosed, secure space.	-	J		J	I						G	IF
FOP Equipment Storage Area	30	2	60	60	Storage of equipment required for utilised by sport in running competition.	Located in BOH, near FOP finish area.	Securable storage area for equipment (e.g. gates, rakes, shovels).	-	I		F	I						R	IF
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	Reference should be made to FIS guidelines for all FOP technical specifications.	-											
FOP Surface Dimensions or Area	-	-	-	-	-	-	See FIS International Competition Rules (ICR) for all technical specifications.	Snow making is obligatory.	F		I		I					R	IF
Downhill (DH)	-	-	-	-	-	-	-	-											
Super-G (SG)	-	-	-	-	-	-	-	-											
Giant Slalom (GS)	-	-	-	-	-	-	-	-											
Slalom (SL)	-	-	-	-	-	-	-	-											
Combined Events	-	-	-	-	-	-	-	-											
Surface	-	-	-	-	Snow.	-	Snow, snow making facilities/equipment is obligatory.	See FIS International Competition Rules (ICR) for all technical specifications.	J		J	I						R	IF
Orientation	-	-	-	-	-	-	See FIS International Competition Rules (ICR) for all technical specifications.	-	J		J	I	I					R	IF

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Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	-	-	-											
Warm-up Surface Dimensions or Area	-	-	-	-	-	-	-	-	J		J				I			R	IF
Downhill (DH)	-	-	-	-	-	-	-	-											
Super-G (SG)	-	-	-	-	-	-	-	-											
Giant Slalom (GS)	-	-	-	-	-	-	-	-											
Slalom (SL)	-	-	-	-	-	-	-	-											
Combined Events	-	-	-	-	-	-	-	-											
Surface	-	-	-	-	Snow.	-	Snow, snow making facilities/equipment is obligatory.	See FIS International Competition Rules (ICR) for all technical specifications.	J		J	I						R	IF
Orientation	-	-	-	-	-	-	See FIS International Competition Rules (ICR) for all technical specifications.	-	I		F	I						R	IF
Athlete Staging Tent	20	1	20	30	Area where athletes assemble prior to starting the race.	Located in close proximity to starting hut.	Enclosed space.	-	I		F							R	IF
Start Tent or Hut	20	1	20	30	Area where athletes start the race,	Located at the official course start line; top of course/FOP.	Enclosed area.	May be temporary or existing structure.											
Athlete Warming Tent	30	1	30	40			Required for both men and women's course start areas.												
FOP Workforce Warming/Waiting Tent	20	1	20																
Camera Positions	-	-	-	-	-	-	-	-	J		J							P	IF
IF / Team	10	1	10	-	-	Located in FOP position.	Pole-mounted or tripod-mounted cameras.	-											
Biomechanics	10	1	10	-	-	Located in FOP position.	Pole-mounted or tripod-mounted cameras.	-											
Athlete / Team Seating	-	-	-	-	A designated seating area for athletes, coaches and service personnel.	-	-	-	J		I	J							
Same Sport	-	Varies	-	-	-	-	-	-	J		I	J						R	IOC,IF
Different Sport	-	Varies	-	-	-	-	-	-	I		I	F						R	IOC
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes, coaches, and service personnel.	-	-	May be required for Sport workforce use. Quantity varies according to athlete numbers.						F				P	
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes, coaches, and service personnel.	Located in close proximity to course start area.	-	Assumes temporary units. Quantity varies according to athlete numbers.						F				P	
International Federation																			
IF Area	90	1	90	135	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located in the Back of House, within the competition management area and in close proximity to athlete areas.	Enclosed space.	Assumes container units or existing space.	I		I	F						R	IF
IF President's Office	15	1	15	-	An office area for IF President.	-	Enclosed space.	Assumes container units or existing space.	I		I	F						R	IF
IF Secretary-General/Executive Director Office	15	1	15	-	-	-	-	Assumes container units or existing space.	I			F						G	IF
Reception, Secretariat, Waiting & Work Space	40	1	40	-	-	-	-	-	I			F						G	IF
IF Meeting Room	-	-	-	-	-	-	See IF & Sport Meeting Room.	-											
Jury Room	15	2	30	40	This space is utilised for jury meetings during training and competition days and the resolution of protests and appeals after competition.	Located in the Back of House, within the competition management area and in close proximity to athlete areas.	Enclosed space.	Assumes container units or existing space.	I			F						R	IF
Video Room	10	2	20	30	Area utilised by technical officials for video reviews of competition.	Located in Back of House, adjacent to Jury Room.	Enclosed space.	Assumes container units or existing space.											
Lounge - International Technical Officials	15	1	15	20	A rest area for officials.	In close proximity to FOP.	Enclosed space.	Assumes container units or existing space.	J		J							G	IF
Seeding / Draw Room	-	-	-	-	Area for team captain meetings involving coaches and team officials.	IF & Sport Meeting Room.	See IF & Sport Meeting Room.	-											
Technical Information Centre	10	1	10	15	An area for distributing information to officials and competition management.	-	-	Recommend to combine with Sport Information area.											
Officials Locker Room, Shower, Toilet	20	1	20	25	Change-room for officials.	Located in Back of House, in close proximity to FOP.	-	Assumes container units or existing space. Separate men and women lockers may be necessary.	I			F						R	IF
Race Director/Technical Delegates Office/Work Space	15	1	15	20	Office area for Race Director, Technical Delegates.	In close proximity to IF President/Secretary General office area.	Enclosed space.	Assumes container units or existing space.	I		I	F						R	IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I		J	J						R	IOC,IF
Sport Presentation																			
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.											
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-				F						P	
Announcer Position	3	1	3	-	-	-	-	-				F						P	
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space, consisting of work area, green room, entertainer staging and dressing and prop storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.					F					P	

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Technology Operations																				
Technology Help Desk	20	1	20	24	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support workforce & manager.	The Help Desk and LAN Management may share a common space if necessary (e.g. when rooms or space are limited).				F						P		
Venue Technology Operations (VTO)	35	1	35	40	OCOG Technology Operations area. Operational work space for entire Venue Technology team, .	Adjacent to or within Venue Operations Centre (VOC).	Medium Security - lockable room. Air-conditioned office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	No specific spaces for partners and contractors. Time and Scoring partner (e.g. OMEGA) will use the OVR room. When not in direct operation, partner technicians can stand-by in the Technicians Intervention room.				F					G	P		
Technicians Intervention Room	35	1	35	40	A stand-by area for partner technicians when not in direct operation.	Located in close proximity to the VTO.	Enclosed space. Table and chairs. Shared area, separate desks not necessary.	-				F						G	P	
Radio Distribution Room (RDR)	30	1	30	18	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E and workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).				I	F						P	
Information Technology																				
Computer Equipment Room (CER)	15	1	15	25	Area for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room.	High Security - lockable room. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	The TER and CER may share a common space if necessary (e.g. when rooms or space are limited). Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.				I	F					G	P	
Data Local Area Network (LAN) Management Room & Store	30	1	30	35	LAN monitoring room & associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational workforce & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces. The Help Desk and LAN Management may share a common space if necessary (e.g. when rooms or space are limited).				F						G	P	

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Telecommunication & Audio Visual																			
Telecomm. Equipment Room (TER) Primary	45	1	45	50	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room.	High Security - lockable room. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	The TER and CER may share a common space if necessary (e.g. when rooms or space are limited). Raised flooring is preferable for cabling distribution, but not essential.	I		F							P	
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER.	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.	I		F							P	
Audio Control Positions	-	-	-	-	-	-	-	-			F							G	P
Venue	4	1	4	8	Area for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Presentation. Can be on FOP, in stands or in a booth with view to FOP.	High Security-lockable room. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	-											
Press Conference	4	1	4	8	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), HVAC, weatherproof. Work space & FF&E for operator.	-											
Athletes Briefing	2	1	2	4	PA systems required for to facilitate announcements to athletes. Space required for amplifier/microphone.	Within briefing room/area for athletes.	Standard/mains power & FF&E.	-											
International Federation Area	2	1	2	4	PA systems required for Federation Area. Space required for amplifier/microphone.	Location as required by Sport/International Federation.	Standard/mains power & FF&E.	-											
Warm-Up Area	2	1	2	4	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Located in athlete warm-up area.	Standard/mains power & FF&E.	-											
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-											
Workforce Break/Dining	2	Varies	Varies	-	Area within break/dining area where audio control equipment is installed to facilitate meetings/training of large numbers of workforce.	Workforce break/dining areas.	Standard/mains power & FF&E.	-											
Video Board Control	10	1	10	12	Area of video control for video board or video projection system. Operations integral with those of Sport Presentation.	Located within Sport Presentation area. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	-			F							G	P
Wired Communications Control	5	1	5	8	Area of wired communications master control station and support technician. System essential to operations of both Sport Presentation and Results/FOP management.	Located near or within Sport Presentation is recommended. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location is located outdoors. Good cable access to FOP, OVR Room, Sport Presentation, Broadcast Graphics Room & Results Printing required.	-			F							G	P

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Timing, Scoring and Results Operations																			
Timing and Scoring Position	-	-	-	-	Area(s) for event timing & scoring personnel & equipment during competition.	Located adjacent and/or close to FOP.	High Security Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards, speed guns & OVR room. Space & FF&E for operators and equipment.	Where timing and scoring take place outdoors, adequate weather (rain/sun/snow) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, OMEGA
Start Area	1	1	1	2	Position where clock is started for event.	Located with sport at race start position.	Cable access to OVR room between all intermediate timing points, aligner hut & start position.	-											
Control Room	30	1	30	35	Area for central Timing & Scoring control operations, including Backup C system, Event Management & photo-finish system.	Located near finish area with view to FOP.	Cable access to OVR Room, Photo Finish Control & Intermediate Positions along course.	-											
Finish Area	1	1	1	2	-	-	-	-											
On Venue Results (OVR)	-	-	-	-	Area is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	-	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Adequate space and FF&E for high density of computer workstations, racks for servers and working space for technicians, operators, and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or where two sports occur concurrently will require more space for additional OVR equipment.	I	F								P	IF, OMEGA
OVR Provider Work Space	30	1	30	32	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO, CIS, PRD, etc.).	Ideally adjacent to IT provider work area.	-	-											
IT Provider Work Space	20	1	20	25	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-											
Scoreboard Control	-	-	-	-	Area for scoreboard control operations. Operations integral with those of Sport Presentation, data provided from OVR System. Space for both Control and Interface workstations & 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Adequate space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.	I	F							G	P	IF, OMEGA
Scoreboard Control	10	1	10	12	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator & workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-											
Scoreboard Interface	4	1	4	6	Area for interface equipment (PC workstations) linking OVR system & Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-											

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Results Printing (PRD)	Varies	1	Varies	-	Area for hard copy results production & distribution. Location of high intensity work involving many workforce preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area, room for Print Distribution Workstation (IDS interface) equipment and operator.	Located adjacent or in close proximity to Press Workroom. Easy access to Press Tribunes, Broadcast Commentary positions, Sport Information, Doping and Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specifications. Adequate space for interface equipment and graphics operators and good cable access to OVR room. Adequate space for staff and FF&E required for operational staff as well as 1 pallet of paper to support print/copy operations.	-	I	I	I	F				I		R	IF
TV Graphics Interface	6	1	6	9	Area where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operations and good cable access to OVR room.	-				I		F			G	P	
Technology Storage																			
Technology General Storage	60	1	60	75	Area for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F					G	P	
Timing and Scoring Storage & Workshop	20-30	1	20-30	25-35	In venue storage & workshop for timing equipment, spare parts & small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.	-	I		F						G	P	
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required to distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closets.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Workroom.	High Security - lockable and weatherproof. May require fan or dedicated A/C depending on room location and/or configuration. Fully redundant power (mains and generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.	I		F							P	
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of power from data/voice and audio-visual cabling.	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in a manner which allows for easy access and repair/replacement. Legacy installations should be installed as permanent while temporary (overlay) should be installed using methods which are easily installed and removed minimising potential damage to the existing structure or venue.				F						P	
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.	-	-	-											
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.	-	-	-											
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.	-	-	-											

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	-											
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	-											
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-											
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-											
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-											
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-											
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-											
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing and Scoring/OVR contractor.	I			F							P
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.											
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F							P
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the video board. Required for outdoor venues where the video boards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each video board.											
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Presentation on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F						G	P
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to/from audio/PA amplification system and/or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend PA speakers from venue ceiling structure.	-	-	-											
Mobile Phone Infrastructure (antenna)	15	1	15	25	Infrastructure required to support installation of additional radio antenna & mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to/from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.	I			F					G	P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Ticketing																			
Ticket Box Office	40	1	40	100	An area at the venue where Olympic tickets are sold.	Located in Front of House, adjacent to the secure perimeter; near the spectator entry point of the venue.	Gross area includes internal & external queue.	Assumes container unit with disabled access to internal and external service window. Dependant upon venue layout and footprint, spectator access point locations.											P
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	15	1	15	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s) & Will Call	15	1	15	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	25	1	25	50	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.											P
Driver Staging	80	1	80	150	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.											P
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside venue secure perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	20	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-											P
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from Host City, based on vehicle/bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J								P
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J								P
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F							P
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.											G IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.											G IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.			I	F							G IOC
Spectator and Workforce Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.											P
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F							P
Accessible	-	-	-	-	-	-	-	Part of Spectator total.											P
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Area only. Surface areas paved or gravel/hard pack surface.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have drop-off in close proximity to accredited entry point and then driver will park.			I	F							P
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.											P
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.											P
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-			J	J							P
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes vehicle circulation.											P
Emergency Services	-	-	-	50 (each)	-	Generally located inside the secure venue perimeter.	-	Includes vehicle circulation.											P
Vehicle Chain-up Area	-	-	-	700	Area that vehicles (cars, buses, etc.) use to install chains onto vehicle tires.	Located along venue access road.	-	Required only for mountain venues in which the access road has slope exceeding an 8% grade on gravel surface or 10% grade on paved road surface. May be dependent upon local legislation and/or requirements.											P

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	C - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Venue Development																			
Site Management Compound	503	1	503	650	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Gross area includes snow removal access. Dependent upon venue footprint, extent of temporary works and number of contractors.											P
Site Management Area	60	1	60	-	-	-	Enclosed space.	Assumes container unit/trailer or tent.											
Site Manager & Assistant Site Manager(s) Work Space	12	1	12	-	Work and meeting area for the Site Manager and additional staff.	-	-	-											
Site Administration Desk & Work Space	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-	-											
Response Team & Vendor Staging	24	1	24	-	On-site permanent and temporary facilities for specialty workforce and general labor crew to be on-call.	-	-	-											
Secure Storage - Site Management	12	1	12	-	Area for storage.	-	-	-											
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.	-	Enclosed space. Area for office, staging and a secure storage area.	Assumes container unit/trailer or tent. Contractor usually installs container units at their own cost.											
Sign/Look Staging, Work Space/Secure Storage	50	1	50	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	-	Assumes container unit/trailer or tent.											
Material Warehouse/Construction Work Space	80	1	80	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	-	Enclosed space. Area for carpentry, painting and general construction. Storage for non-weather proof materials.	Assumes tent or canopy with 2 side walls.											
Vendor Secure Storage	60	1	60	-	Area for containers, usually provided by the various temporary construction sub-contractors.	-	Enclosed space.	Assumes container unit/trailer or tent or existing space.											
Materials Staging Area	50	1	50	-	Area for the off-loading and loading of bulk construction materials.	-	Area only.	-											
Exterior Storage Area	50	1	50	-	Outdoor storage of material and products.	-	Area only.	Weatherproof area for large and bulk materials.											
Vehicle Staging	90	1	90	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	-	Area only.	Service, Repair & Specialty vehicles.											
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.	I		F								P
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.	-	I		F								P
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.	I		F								P
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.											
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-	-											

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Venue Management																			
Venue Operations Centre (VOC)	60	1	60	90	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Dependent upon venue capacity and venue layout.											P
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-											
Assigned Desks	20	1	20	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Space and Storage	18	1	18	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	40	1	40	50	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.											P
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	24	1	24	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	-											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	150	1	150	180	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre or in close proximity to VOC.	Enclosed space.	Assumes existing space or tent. Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.											P
Snow Removal Compound	-	-	-	-	A service area where the snow removal contractor operates at the venue and performs the snow removal.	Located in the BOH area; adjacent to or within the Logistics or Waste Management compounds.	-	-											
Equipment Storage	15	1	15	-	Area for storage of snow removal equipment.	-	May require covered and enclosure.	-											
Truck & Equipment Staging	50	Varies	Varies	-	Area for staging of snow removal vehicles and equipment	-	May require covered and enclosure.	Number required may vary according to layout and/or size of venue.											
Supply Storage Area	50	Varies	Varies	-	Area for storage of supplies that may be required for snow removal (i.e. salt).	-	May require covered and enclosure.	Number required may vary according to layout and/or size of venue.											
Snow Storage / Removal Area	-	-	-	200-2000	An area or location where snow can be stored after it is removed from operational areas of the venue.	Located outside of operational areas of the venue.	Area only for dumping of snow removed areas of the venue. May require multiple locations that may exist off venue or outside the venue perimeter.	Area requirements will be based on size of venue. Snow removal may require hauling/transport to off venue location.											
Workforce																			
Workforce Area	150	1	150	180	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.											P
Check-In Area	96	1	96	-	Area to log-in venue workforce and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Space	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	335	1	335	400	The space where workforce meals are served and where workforce can break during shifts.	A location that will provide easy access to all venue workforce for breaks and meals; will vary according to venue layout/distances.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon venue workforce numbers.											P
END OF DOCUMENT																			

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Space Sub-space(s)	Net Area - D107	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation					
Accreditation																							
Venue Accreditation Office	50	1	50	125	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space. Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.										P					
Day Pass Issue & Problem Resolution Desk	15	1	15	-																			
Work Space	15	1	15	-																			
Manager Desk or Office & Storage	12	1	12	-																			
Waiting Area	8	1	8	-																			
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	Located in the Back of House area, on the perimeter of an accredited area and/or entry.	May be required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.					F						P				
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.															
Broadcast																							
Broadcast Compound	-	1	-	5000	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, normally in the Back of House area, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements.															
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.					I						G IOC				
Broadcast Manager Office	12	1	12	-	-	-	-	-															
Work Room, Assigned & Unassigned Desks	48	1	48	-	-	-	-	-															
Technical Operations centre	40	1	40	100	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.					I						R IOC				
Broadcast Catering	140	1	140	180	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	-															
Kitchen & Prep	20	1	20	-	-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.															
Buffet Line & Dining	120	1	120	-	-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.															
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements.															
Work Space(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-															
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters.															
Work Space(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-															
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.															
Toilets	1.5	8	12	36	-	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.															
Commentator Control Room	10	1	10	15	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in Back of House area, in close proximity to commentator position area.	Enclosed space with incoming television cable.	Assumes existing space or container unit.					I						R IOC				
Broadcast Information Office (BIO)	20	1	20	25	Space for broadcast management and team meetings.	Back of House area; located near commentator positions and CCR.	Enclosed space.	Assumes existing space or container unit.					J						R IOC				
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-					J						G IOC				
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J								R IOC				
Mixed Zone	25	1	25	90	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Located in the Back of House, adjacent to the FOP.	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I	I	J								R IOC, IF				
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in cabins and/or container units with view to FOP and finish areas.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Commentator positions at outdoor venues are normally located in temporary cabin/container/trailer units.											R IOC				

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Principles of Stakeholder Involvement:
I-Input, J-Joint Decision, F-Final Decision

Space Sub-space(s)	Net Area - D107	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	-	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	-			I	J			J			
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions.	1 position = uses 1 seat in existing seating bowls.	-			I	J			J		R	IOC
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval.	J		I	J			J		R	IOC
Camera Position - Other	4	35	140	315	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	-	I		I	J			J		R	IOC
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-							J	I		G IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	See also Technology requirements.							J	I		J IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in Back of House areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.							J	I		J IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography	J			J	I		J	I		R IOC
Catering																		
Catering Compound	565	1	565	1020	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity. Gross area includes snow removal access.		I		F						P
Work Spaces - Catering Management	28	1	28	-	Operational work space(s).	Located in Back of House area.	Enclosed space.	Assumes existing space or container.										
Organising Committee Catering Manager	-	-	-	-	-	Located in Venue Operations Centre.	See Venue Management - VOC.	-										
Catering Contractor	16	1	16	-	-	-	-	-										
Beverage Contractor	12	1	12	-	-	-	-	-										
Dry, Cold and Ice Storage	38	6	228	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.										
Vehicle Staging	90	1	90	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-										
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-										
Kitchen and Preparation Area	80	1	80	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.										
Uncovered Storage	75	1	75	-	Outdoor storage of material and products.	-	Area only.	-										
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilets should be provided.										
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit.	-										
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary). The temporary holding and distribution of potable water in accordance with local health code standards.	Located in the Front of House, in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container's). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity and level of catering activity.		I		F						P
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	Located in the Front House area, adjacent to spectator points of sale.	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.										
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	Located in the Front House area, adjacent to spectator points of sale.	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.										
Outlets' Look	-	-	-	-	-	-	See Look for details.	-		I		F						P

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Space Sub-space(s)	Net Area - D107	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Ceremonies																				
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-											P	
Ceremonies Staging	36	1	36	45	Area to coordinate ceremonies; e.g. podium, procession, recession route and flags. .	Adjacent to or close to FOP.	Consists of coordinator work space with area for anthem storage, secure storage, preparation and dressing area; see below for additional details.	Assumes existing space or container.											P	
Manager Desk	6	1	6	-	Workspace for Manager.	-	-	-												
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenters, Medal/Flower staging, Secure medal and flag storage	22	1	22	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format. Medals storage is not required for those venues where the medal ceremony will take place at another location.												
Presenter Preparation and Dressing	4	2	8	-	A dressing and preparation area for Presenters.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-												
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	Close to FOP.	Limited use, may be shared with other space. See Sport Presentation.	-		I		F							P	
Awards Podium Storage	12	1	12	15	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	-			I	F							P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.	I		J	J					G	R	IOC	
Cleaning and Waste																				
Cleaning & Waste Compound	252	1	252	420	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House (BOH) area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependant upon venue capacity. Gross area includes snow removal access.											P	
Vehicle Staging	72	1	72	-	Parking area for collection vehicles which generally remain inside the venue.	BOH	Area only.	-												
Sorting Area	72	1	72	-	Area for sorting waste.	BOH	Area only.	-												
Waste & Recycle Containers	15	4	60	-	Area in front of waste and recycle bins where material is separated for containment.	BOH	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).												
Compactor Unit	25	Varies	Varies	-	-	BOH	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.												
Equipment Supply & Storage	15	2	30	-	Space for cleaning equipment and paper product.	BOH	Enclosed space.	Assumes container unit.												
Contractor Office	18	1	18	-	Space for management and workforce staging.	BOH	Enclosed space.	-												
Doping Control																				
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	-	J		J	J							R	IOC
Waiting Area/Reception	26	1	26	30	Area where athletes check-in and wait prior to testing.	-	-	-												
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Blood Processing Room(s)	15	Varies	Varies	20 (each)	Area where athlete blood samples are provided and sealed	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer. Wash basin for hand sanitisation.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Office / Storage	12	1	12	15	Work and storage space for Doping Manager.	-	Enclosed space. Secure storage.	-												
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-	I		J	J							R	IOC

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Space <small>(Sub-space(s))</small>	Net Area - D107	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.											P
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of workforce pre-shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.											P
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.											P
Information Desk	-	-	-	-	-	-	-	-											
Lost and Found	-	-	-	-	A holding area for items found in the venue.	-	-	-											
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spectators.	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	-	-	Will depend on level of service at venue.											P
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes; located between screening/search area and spectator plaza.	Total number generally 50% of security screening positions.											P
Stroller Storage	Varies	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	In close proximity to seating area.	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.											P
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.											P
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators											P
Spectator Shade and Shelter	Varies	Varies	Varies	72 (each)	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and spectator service amenities.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.											P
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-											P
Spectator Toilets	1.5	Varies	Varies	5 (each) 6 (per 20 toilets)	Toilet units designated for spectators.	Located in FOH, close proximity to seating and spectator amenities.	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.											P
Hand Wash Stations	1	Varies	Varies	6 (per 20 toilets)	A chemical unit used in the absence of potable water	Located in FOH, close proximity to seating and spectator amenities.	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.											P

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Space Sub-space(s)	Net Area - D107	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Finance																			
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I		F						P	
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Located in Front of House, both inside venue perimeter and outside venue perimeter.	Area only.	Quantity dependent upon venue capacity.		I		F						P	
Language Services																			
Work Space / Desk	20	1	20	25	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre (VOC).	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-		J	J			I				G	IOC
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference ne-	-		J	J			I				G	IOC
Logistics																			
Logistics Compound	-	1	-	780	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access.					F					P	
Logistics Centre	60	1	60	-	-	-	Enclosed space.	Assumes container units or tent.											
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-											
Team Staging/Work Space	33	1	33	-	Space for staging and a work area.	-	-	-											
Secure Storage & Equipment Sign-out	15	1	15	-	Area for storage.	-	Storage for tools.	-											
Warehouse Storage	90	1	90	-	Storage area for furniture, fixtures, and equipment (F	-	Enclosed space.	Assumes tent											
Storage Yard	75	1	75	-	Outside storage area within compound.	-	Area only.	-											
Vehicle Staging	100	1	100	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-											
Fuel Tank(s)	9	Varies	Varies	25 (each)	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.											
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.											
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.											
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.											
Material Transfer Area (MTA)	-	1	-	575	Generally for deliveries to the venue that may take place after hours or not within the logistics delivery window period.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.				F						P	
X-Ray Area	36	1	36	72	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.											

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Look of the Games																				
Work Space and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.										P		
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J						J	R	IOC	
National Olympic Committee (NOC) Flags	Varies	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events) and competition format.	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.		J	J						J	R	IOC	
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and Back of House locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J					J	G	R,P	IOC, IF
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals. Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.		I	J	J					J	G	R	IOC, L
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH) Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-												
Backdrop - Press Conference Room	2.2 x 6	1	2.2 x 6	-	Look item for Press Conference behind the dais.	Located in FOH.	Venue catering and merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-												
Outlets' Look	-	-	-	-	Look required for concessionaire units.	Located in FOH.	-	-	I				F						P	
Medical Services																				
Athlete Medical	65	1	65	100	An area where Medical provides services to athletes competing at the venue.	Located in Back of House within the accredited athlete area.	Enclosed space.	Assumes container or existing space.	J	J	J							J	R	IF
Reception & Waiting	12	1	12	-	Area where athletes check-in and wait prior to examination.	-	-	-												
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-												
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-												
Physiotherapy Area(s)	8	2	16	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-												
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J								S	IF
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.												
Spectator Medical	50	1	50	100	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed space. 1 per 20,000 spectators.	Assumes container unit or existing space.			I	F		I					P	
Reception & Waiting	12	1	12	-	Area where spectators check-in and wait prior to examination.	-	-	-												
Medical Work Space & Secure Storage	12	1	12	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-												
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-												
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Triage Station	36	1	38	72	Additional space to treat minor medical needs of spectators.	Located in the Front of House.	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.			I	F		I					P	
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only. For Winter Games, the ambulances may need heated shelters or access to electrical outlets for block heaters and protection from snow and ice.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.											P	
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Area only. Paved, graveled or grass area with fence, barricade or rope enclosure.	-											P	

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Merchandise																				
Office, Cash Room & Work Space	12	1	12	15	An area to manage the retailing of all Olympic merchandise inside the venue.	-	Enclosed space with secure entry.	Assumes container unit or existing space.					F					P		
Storage	15	2	30	35	-	-	-	Assumes storage containers or existing space.				F						P		
Program Sales Stands/Booths	1	1	1	2	-	-	Area only.	Units provided by vendor. Quantity and location decided by vendor and OCOG.				F						P		
Merchandise Points of Sale (POS) Outlets' Look	6	Varies	Varies	18 (each)	Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.	Gross area is per each P.O.S. and includes service area and queue.		I		F						P		
Olympic Family Services																				
Olympic Family Lounge	240	1	240	500	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes tent.	I		I	F						G	G	IOC
Welcome Desk and Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-	-												
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.	-												
Workforce/Volunteer Room and Storage	12	1	12	-	On-call waiting area for Protocol workforce and equipment storage.	-	-	-												
Dining and Lounge	140	1	140	-	Area for dining and lounge.	-	-	-												
Preparation/Buffer set-up/Beverage Area	70	1	70	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Workforce/Volunteer, Athlete, Media)	-												
Toilets	30	1	30	60	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	4 female, 4 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided											R	IOC
Protocol flags																				
Protocol flags	-	-	-	-	-	-	See Look of the Games.	-			J	J							R	IOC
Press Operations																				
Venue Media Centre (VMC)	890	1	890	1140	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Conference Room and Photo Positions.	Close proximity to Press Conference Room and Mixed Zone area.	Enclosed space for press and photographers.	Assumes tent.				F						R	IOC	
Reception & Information Desk	30	1	30	-	Welcome desk at the entrance, for information distribution.	-	-	-												
Storage	10	1	10	-	Equipment storage.	-	-	-												
Press Manager Office	15	1	15	-	Operational work space.	-	-	-												
Photo Manager Office	15	1	15	-	Operational work space.	-	-	-												
IF Media Office	15	1	15	-	Operational work space.	-	-	-												
Olympic News Service (ONS) Work Room or Area	30	1	30	-	Operational work space.	-	Enclosed space.	-												
Info Stations	30	1	30	-	Computer stations and printers.	-	-	-												
Press Work Room or Area	400	1	400	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.												
Photo Work Room or Area	140	1	140	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.	-												
Photographers Check-in & Photo Bib Distribution	20	1	20	-	Area where photographers register and receive/return photo bibs.	-	-	-												
Locker Area	1.5	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.												
Lounge/Catering Preparation	180	1	180	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-	-												
Toilets	1.5	10	15	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided												

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Principles of Stakeholder Involvement:
I-Input, J-Joint Decision, F-Final Decision

Space Sub-space(s)	Net Area - D107	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Press Conference Room	230	1	230	340	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams .	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I			F						R IOC
Seating Area	180	1	180	-	An area for accredited press.	-	Seats and standing room.	-										
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3 .6 m table, 8 chairs & step and repeat backdrop.	-										
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-										
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-										
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-				F			I	I		
Mixed Zone	200	1	200	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I		I	F						R IOC,IF
Press Tribune	-	-	-	-	A section of the standing in the Mixed Zone area (outdoor venues) and of the seating (indoor venues) dedicated to accredited journalists and photographers.	-	For outdoor venues telephones, television monitors, power and other press facilities are existing in the VMC.	-										
Standing Area in the Mixed Zone	Varies	Varies	Varies	-	An area for accredited press.	For outdoor venues, located near finish area or outrun of course area.	An open, corralled area.	Exceptions may exist at various venues.			I	F						R IOC,IF
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided										
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-										
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	Located along FOP.	60 cm wide x 90 cm deep per position, multi-row areas require 60 cm riser per row.	Power, Wireless and data cabling needed to photo positions on FOP.	J		I	J						R IOC, IF
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Normal seating areas.	-	Seating areas are generally not applicable for outdoor venues.	I		I	F						G IOC
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-										

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Space Sub-space(s)	Net Area - D107	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Security																				
Security Command Centre	120	1	120	145	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.												
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-												
Security Work Space	15	1	15	-	An area for additional security agencies.	-	-	-												
CCTV Surveillance & Video Desk	15	1	15	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-												
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.												
Radio Dispatch & Monitoring	15	1	15	-	An area for the monitoring and control of security communication and the distribution/return of security radios.	-	-	-												
Work Room	50	1	50	-	Open plan of work stations designated for security personnel.	-	-	-												
Secure Storage	10	1	10	-	An area for Security equipment storage.	-	Enclosed, secure space.	-												
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-												
Briefing and Break Area / Staging Area	140	1	140	170	Area for briefing workforce before and after shifts.	-	Enclosed space.	Assumes tent.												
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.												
Vehicle Screening & Sanitisation Area	569	1	569	800	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.												
Vehicle Queue	175	1	175	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-												
Oversized Vehicle Queue	140		140	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-												
Vehicle Sanitisation & Wanding Areas	150		75	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.												
Oversized Vehicle (Truck & Bus) Sanitisation	70		70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-												
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.												
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Enclosed space for staging and break.	-												
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the venue secure perimeter and/or venue screening area for constituents.	-	Dependent upon spectator capacity and venue design.												
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-												
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-												
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-												
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.												

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Space Sub-space(s)	Net Area - D107	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the venue secure perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.										G	P	
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the venue secure perimeter.	Enclosed space for screening/search area positions. Net area for each screening position will accommodate the following: 4 Wanding Stations, OR - 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue. Dependent upon spectator capacity and venue design.												
Athlete / Team	18	1-2	18-36	36-72	-	BOH.	-	-	I			F								P
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with Athlete and/or Olympic Family.	I			F								P
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with TO, ENG and/or Press.	I		I	F								P
Broadcast	18	1-2	18-36	45-90	-	BOH.	-	If possible, direct access from outside venue perimeter into Broadcast Compound.				F		I					R	IOC
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	BOH; located in close proximity to Venue Broadcast Compound.	-	-												
Press and Photographer	18	1-2	18-36	36-72	-	BOH; located in close proximity to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast).	If possible, direct access from outside venue perimeter into Venue Media Centre.					F						R	IOC
Workforce (Staff/Volunteer/Contractor/Vendor)	18	2-3	36-54	90-135	-	BOH or possibly FOH.	-	-				F							G	IOC
Spectator / Sponsors	18	Varies	Varies	54	-	FOH.	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-				F								P
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.												
Exception Gate	Varies	Varies	Varies	-	Access gate for designated accredited personnel.	FOH; located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.												
X-ray of bags	36	Varies	Varies	72 (each)	Device for screening bags/equipment coming into the venue.	FOH and BOH.	Covered.	-				I		F				G	P	
Venue Perimeter Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	Dependent upon spectator capacity and venue design.				F		I						P
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	1m to 3m width, sometimes used as a secondary service vehicle exit point.	-												
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m each, number varies per concourse design.	-												
Workforce (Staff/Volunteer/Contractor/Vendor)	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	Size dependant upon total workforce numbers.												
Sponsor Services																				
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.				I		F						P

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Space Sub-space(s)	Net Area - D107	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Sport Operations																			
Competition Management	50	1	50	65	A work area for sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located in Back of House, in close proximity to athlete area and FOP; may be co-located within the Venue Operations Centre (VOC).	Enclosed space.		I				F					P	
Competition Manager & Asst. Manager Desks	15	1	15	-	An area for the manager and assistant(s) manager.	-	-	-											
Assigned Work Space	10	1	10	-	Open plan of work stations designated for Sport personnel.	-	-	-											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Space	15	1	15	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-											
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-											
Chief of Competition Offices	15	2	30	-	Area where the Teams get main information and direct communicated to competition secretary and competition committee.	Located in back of house, in close proximity to jury and timing room.	Enclosed space.	Includes: information boards, pigeon holes, Info & Help Desk, work area, info terminal stations & storage.	I				F					P	
Chief of Competition	-	-	-	-	An office for chief of competition.														
Chief of Stadium	-	-	-	-	An office for chief of stadium.														
Sport Staff room and Radio Testing area	60	1	60	65	Working rooms for sport staff and radio checks.	In close proximity to FOP.	Enclosed space.	Assumes container units or existing space.	J				J					G	IF
Sport Information	20	1	20	25	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located adjacent to competition office and athlete areas.	Enclosed space with waiting area and seating.	Area where teams receive information from the competition secretary and competition committee. Includes: information boards, pigeon holes, Info & Help Desk, work area, info terminal stations & storage.	J				J					R	IF
Results Posting Area	3	1	3	-	An area for posting competition results.	Located adjacent to athlete area.	Area only.	-											
Athlete Lounge	140	1	140	180	An area where athletes can relax at the venue while not training or competing.	Located in athlete area.	Enclosed space.	Includes: seating area, lounge, Info & Help Desk, info terminal stations.	J				J					R	IF
Athlete Wax Cabins	30	Varies	Varies	60 (each)	Change-room facilities to accommodate athletes at the venue during competition and training; additionally, a separate area used for working on equipment and waxing skis.	Located in athlete area, adjacent to FOP.	Enclosed space; large compound like area for containers and/or trailers. Level surface area for placement of containers and/or trailers. with easy access for vehicles. Measurement for each cabin is 30m ² . Separate male and female facilities required.	Number of cabins will vary according to final team/athlete numbers. Generally, an estimated quantity of 30 wax cabins may be necessary. Gross area may vary according to placement of containers; Gross area should include the area required for snow removal equipment/vehicles. Assumes cabins/container units.	J				J				R	IF	
Chief of Course Office	15	1	15	20	An office area for chief of course.	Located in the Back of House/athlete areas; in close proximity to FOP.	Enclosed space.	Assumes permanent or temporary structure.	J				J					R	IF
Chief of Range Office	15	1	15	20	An office area for range official.	Located in close proximity to the shooting range.	Enclosed space.	Assumes permanent or temporary structure.	J				J					R	IF
Chief of Range Storage	15	1	15	20	Area for technical equipment storage.	Located in close proximity to the shooting range.	Enclosed space.	Assumes permanent or temporary structure.	J				J					R	IF
Final Waxing Canopy	10	1	10	15	An area utilised by ski technicians for final ski preparations e.g. applying a final coat of wax on competition skis.	Located in the Back of House, near course start.	Area only with cover.	Assumes temporary structure.	J				J					R	IF
Ski Wax Testing/Warm-up Area	3200	1	3200	3500	An area where athletes and/or equipment managers or manufacturing companies can test to ensure the correct wax has been applied to skis.	Located near FOP.	Area with warm-up course.	-	J				J					R	IF
Ski Manufacturing Cabins	30	Varies	Varies	60 (each)	An area where manufactures provide services to athletes.	Located in the Back of House, in close proximity to Athlete areas.	An area for placement of containers and/or trailers.	Number of cabins will vary according to agreed manufacturing numbers. Generally, an estimated quantity of 10 cabins may be necessary.	J				J					R	IF
Ski Marking Area	20	1	20	25	An area used by competition officials to mark competition skis.	Located before entrance to start area.	Area only with cover.	Assumes temporary structure.	J				J					R	IF
IF & Sport Meeting Room	100	1	100	150	Meeting facility at the venue for teams and other sport related meeting needs.	Located in the competition management area.	-	Assumes container units or existing space. May be used for video review / working area.	J				J					R	IF
Store for Ammunition and Rifles	40	1	40	50	Storage area in separate building or safety room for ammunition and rifles.	Located near shooting FOP.	-	-	J				J					R	IF
FOP Equipment Storage Area	55	1	55	65	Storage of equipment required for utilised by sport in running competition.	Located in Back of House, adjacent to Field of Play/stadium area or within close proximity.	Securable storage area for equipment (e.g. gates, rakes, shovels).	-	I				F	I				R	IF

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Space Sub-space(s)	Net Area - D107	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	Reference should be made to IBU guidelines for all FOP technical specifications.	-												
FOP Surface Dimensions or Area	-	-	-	-	-	-	FOP consists of: start, course, shooting range, penalty loop, finish areas. Start/Finish Zone: 3200 Stadium Area: 36 000m ² Course: 4km in length and 8 metre wide. Shooting Range: 90 x 50 metres.	The shooting range consists of: 30 targets 30 shooting mats, 2 x 15m.	F			I						R	IF	
Surface	-	-	-	-	-	-	Snow.	-	J		J	I							R	IF
Orientation	-	-	-	-	-	-	-	-	J		J	I							R	IF
Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	-	Reference should be made to IBU guidelines for all technical specifications.	-												
Warm-up Surface Dimensions or Area	4000	1	4000	4800	-	Located close to wax area and start area.	Downhill slope should be 8-12° and a minimum of 30 metres long.	-	J		J								R	IF
Surface	-	-	-	-	-	-	Snow.	-	J		J	I							R	IF
Orientation	-	-	-	-	-	-	-	-	I		F	I							R	IF
Camera Positions	-	-	-	-	-	-	-	-	J		J								P	IF
IF / Team	10	1	10	-	-	Located in FOP position.	Pole-mounted or tripod-mounted cameras.	-												
Biomechanics	10	1	10	-	-	Located in FOP position.	Pole-mounted or tripod-mounted cameras.	-												
Athlete / Team Seating	-	-	-	-	A designated seating area for athletes.	-	-	-	J		I	J								
Same Sport	-	Varies	-	-	-	-	-	-	J		I	J							R	IOC,IF
Different Sport	-	Varies	-	-	-	-	-	-	I		I	F							R	IOC
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	-											P	
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	Located at start or control area.	Required if FOP is not located near athlete area.	-											P	
International Federation																				
IF Area	90	1	90	135	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located in the Back of House, within the competition management area and in close proximity to athlete areas.	Enclosed space.	Assumes container units or existing space.	I		I	F							R	IF
IF President's Office	15	1	15	-	An office area for IF President.	-	Enclosed space.	Assumes container units or existing space.	I		I	F							R	IF
IF Secretary-General/Executive Director Office	15	1	15	-	-	-	-	Assumes container units or existing space.	I		F								G	IF
Reception, Secretariat, Waiting & Work Space	40	1	40	-	-	-	-	-	I		F								G	IF
IF Meeting Room	-	-	-	-	-	-	See IF & Sport Meeting Room.	-												
Competition Jury Room	45	1	45	55	This space is utilised for the resolution of competition protests after the competition concludes.	Located in close proximity to finish area, timing area and competition offices.	Enclosed space.	Assumes container units or existing space.	I		F								R	IF
Room for International Referees	25	1	25	30	A meeting room for referees.	Located in close proximity to finish area, timing area and competition offices.	Enclosed space.	Assumes container units or existing space.	I		F								R	IF
Seeding / Draw Room	-	-	-	-	Area for meetings involving coaches and team officials.	IF & Sport Meeting Room.	See IF & Sport Meeting Room.	-												
Technical Information Centre	10	1	10	15	An area for distributing information to officials and competition management.	-	Recommend to combine with Sport Information area.	-												
Officials Locker Room, Shower, Toilet	20	1	20	25	Change-room for officials.	Located in Back of House, in close proximity to FOP.	-	Assumes container units or existing space. Separate men and women lockers may be necessary.	I		F								R	IF
Technical Delegates Office/Work Space	15	1	15	20	Office area for Technical Delegates.	In close proximity to IF President office area.	Enclosed space.	Assumes container units or existing space.	I		I	F							R	IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I		J	J							R	IOC,IF
Sport Presentation																				
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.												
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-											P	
Announcer Position	3	1	3	-	-	-	-	-											P	
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space, consisting of work area, green room, entertainer staging and dressing and prop storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.											P	

Space <small>Sub-space(s)</small>	Net Area - D107	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L- Legislation
Technology Operations																		
Technology Help Desk	20	1	20	24	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support workforce & manager.	The Help Desk and LAN Management may share a common space if necessary (e.g. when rooms or space are limited).					F					P
Venue Technology Operations (VTO)	35	1	35	40	OCOG Technology Operations area. Operational work space for entire Venue Technology team, .	Adjacent to or within Venue Operations Centre (VOC).	Medium Security - lockable room. Air-conditioned office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	No specific spaces for partners and contractors. Time and Scoring partner (e.g. OMEGA) will use the OVR room. When not in direct operation, partner technicians can stand-by in the Technicians Intervention room.					F				G	P
Technicians Intervention Room	35	1	35	40	A stand-by area for partner technicians when not in direct operation.	Located in close proximity to the VTO.	Enclosed space. Table and chairs. Shared area, separate desks not necessary.	-					F				G	P
Radio Distribution Room (RDR)	30	1	30	18	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E and workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).		I		F						P
Information Technology																		
Computer Equipment Room (CER)	15	1	15	25	Area for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room.	High Security - lockable room. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	The TER and CER may share a common space if necessary (e.g. when rooms or space are limited). Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.		I		F					G	P
Data Local Area Network (LAN) Management Room & Store	30	1	30	35	LAN monitoring room & associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational workforce & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces. The Help Desk and LAN Management may share a common space if necessary (e.g. when rooms or space are limited).					F				G	P

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Space <small>Sub-space(s)</small>	Net Area - D107	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Telecommunication & Audio Visual																			
Telecomm. Equipment Room (TER) Primary	45	1	45	50	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room.	High Security - lockable room. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	The TER and CER may share a common space if necessary (e.g. when rooms or space are limited). Raised flooring is preferable for cabling distribution, but not essential.		I		F						P	
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER.	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.		I		F						P	
Audio Control Positions	-	-	-	-	-	-	-	-				F					G	P	
Venue	4	1	4	8	Area for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Presentation. Can be on FOP, in stands or in a booth with view to FOP.	High Security-lockable room. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1 000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	-											
Press Conference	4	1	4	8	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), HVAC, weatherproof. Work space & FF&E for operator.	-											
Athletes Briefing	2	1	2	4	PA systems required for to facilitate announcements to athletes. Space required for amplifier/microphone.	Within briefing room/area for athletes.	Standard/mains power & FF&E.	-											
International Federation Area	2	1	2	4	PA systems required for Federation Area . Space required for amplifier/microphone.	Location as required by Sport/International Federation.	Standard/mains power & FF&E.	-											
Warm-Up Area	2	1	2	4	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Located in athlete warm-up area.	Standard/mains power & FF&E.	-											
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-											
Workforce Break/Dining	2	Varies	Varies	-	Area within break/dining area where audio control equipment is installed to facilitate meetings/training of large numbers of workforce.	Workforce break/dining areas.	Standard/mains power & FF&E.	-											
Video Board Control	10	1	10	12	Area of video control for video board or video projection system. Operations integral with those of Sport Presentation.	Located within Sport Presentation area. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	-				F					G	P	
Wired Communications Control	5	1	5	8	Area of wired communications master control station and support technician. System essential to operations of both Sport Presentation and Results/FOP management.	Located near or within Sport Presentation is recommended. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location is located outdoors. Good cable access to FOP, OVR Room, Sport Presentation, Broadcast Graphics Room & Results Printing required.	-				F					G	P	

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Timing, Scoring and Results Operations																				
Timing and Scoring Position	-	-	-	-	Area(s) for event timing & scoring personnel & equipment during competition.	Located adjacent and/or close to FOP.	High Security Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards, speed guns & OVR room. Space & FF&E for operators and equipment.	Where timing and scoring take place outdoors, adequate weather (rain/sun/snow) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, OMEGA	
Start Area	1	1	1	2	Position where clock is started for event.	Located with sport at race start position.	Cable access to OVR room between all intermediate timing points, aligner hut & start position.	-												
Control Room	35	1	35	40	Area for central Timing & Scoring control operations, including Backup C system, Event Management & photo-finish system.	Located near finish area with view to FOP.	Cable access to OVR Room, Photo Finish Control & Intermediate Positions along course.	-												
Finish Area	1	1	1	2	-	-	-	-												
On Venue Results (OVR)	-	-	-	-	Area is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	-	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Adequate space and FF&E for high density of computer workstations, racks for servers and working space for technicians, operators, and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or where two sports occur concurrently will require more space for additional OVR equipment.	I	F								P	IF, OMEGA	
OVR Provider Work Space	25	1	25	30	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO, CIS, PRD, etc.).	Ideally adjacent to IT provider work area.	-	-												
IT Provider Work Space	20	1	20	25	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-												
Scoreboard Control	-	-	-	-	Area for scoreboard control operations. Operations integral with those of Sport Presentation, data provided from OVR System. Space for both Control and Interface workstations & 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Adequate space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.	I			F						G	P	IF, OMEGA
Scoreboard Control	10	1	10	12	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator & workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-												
Scoreboard Interface	4	1	4	6	Area for interface equipment (PC workstations) linking OVR system & Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-												

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Results Printing (PRD)	Varies	1	Varies	-	Area for hard copy results production & distribution. Location of high intensity work involving many workforce preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area, room for Print Distribution Workstation (IDS interface) equipment and operator.	Located adjacent or in close proximity to Press Workroom. Easy access to Press Tribunes, Broadcast Commentary positions, Sport Information, Doping and Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specifications. Adequate space for interface equipment and graphics operators and good cable access to OVR room. Adequate space for staff and FF&E required for operational staff as well as 1 pallet of paper to support print/copy operations.		I	I	I	F					I	R	IF
TV Graphics Interface	6	1	6	9	Area where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operations and good cable access to OVR room.					I		F			G	P	
Technology Storage																			
Technology General Storage	60	1	60	75	Area for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F					G	P	
Timing and Scoring Storage & Workshop	20-30	1	20-30	25-35	In venue storage & workshop for timing equipment, spare parts & small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.		I		F						G	P	
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required to distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closets.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Workroom.	High Security - lockable and weatherproof. May require fan or dedicated A/C depending on room location and/or configuration. Fully redundant power (mains and generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.	I		F							P	
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of power from data/voice and audio-visual cabling.	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in a manner which allows for easy access and repair/replacement. Legacy installations should be installed as permanent while temporary (overlay) should be installed using methods which are easily installed and removed minimising potential damage to the existing structure or venue.				F						P	
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.														
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.														
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.														

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Principles of Stakeholder
I-Input, J-Joint Decision,
F-Final Decision

Space Sub-space(s)	Net Area - D107	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	-											
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	-											
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-											
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-											
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-											
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-											
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-											
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing and Scoring/OVR contractor.	I			F							P
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.											
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F							P
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the video board. Required for outdoor venues where the video boards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each video board.											
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Presentation on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F					G		P
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to/from audio/PA amplification system and/or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend PA speakers from venue ceiling structure.	-	-	-											
Mobile Phone Infrastructure (antenna)	15	1	15	25	Infrastructure required to support installation of additional radio antenna & mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to/from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.	I			F					G		P

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Ticketing																			
Ticket Box Office	40	1	40	100	An area at the venue where Olympic tickets are sold.	Located in Front of House, adjacent to the secure perimeter; near the spectator entry point of the venue.	Gross area includes internal & external queue.	Assumes container unit with disabled access to internal and external service window. Dependant upon venue layout and footprint, spectator access point locations.										P	
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	15	1	15	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s) & Will Call	15	1	15	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	25	1	25	50	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.										P	
Driver Staging	80	1	80	150	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.										P	
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside venue secure perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	20	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-										P	
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from Host City, based on vehicle/bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J						I	P	
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J						I	P	
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F						P	
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.				F					I	G	IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.				F						G	IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.	I		F							G	IOC
Spectator and Workforce Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				F						P	
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.	I		F							P	
Accessible	-	-	-	-	-	-	-	Part of Spectator total.				F						P	
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Area only. Surface areas paved or gravel/hard pack surface.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have drop-off in close proximity to accredited entry point and then driver will park.			I	F						P	
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.				F					I	P	
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.				F						P	
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-			J	J						P	
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes vehicle circulation.				F					I	P	
Emergency Services	-	-	-	50 (each)	-	Generally located inside the secure venue perimeter.	-	Includes vehicle circulation.				F					I	P	
Vehicle Chain-up Area	-	-	-	700	Area that vehicles (cars, buses, etc.) use to install chains onto vehicle tires.	Located along venue access road.	-	Required only for mountain venues in which the access road has slope exceeding an 8% grade on gravel surface or 10% grade on paved road surface.				F						P	
								May be dependent upon local legislation and/or requirements.				F						P	

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Space Sub-space(s)	Net Area - D107	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Venue Development																			
Site Management Compound	503	1	503	650	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Gross area includes snow removal access. Dependent upon venue footprint, extent of temporary works and number of contractors.											
Site Management Area	60	1	60	-	-	-	Enclosed space.	Assumes container unit/trailer or tent.											
Site Manager & Assistant Site Manager(s) Work Space	12	1	12	-	Work and meeting area for the Site Manager and additional staff.	-	-	-											
Site Administration Desk & Work Space	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-	-											
Response Team & Vendor Staging	24	1	24	-	On-site permanent and temporary facilities for specialty workforce and general labor crew to be on-call.	-	-	-											
Secure Storage - Site Management	12	1	12	-	Area for storage.	-	-	-											
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.	-	Enclosed space. Area for office, staging and a secure storage area.	Assumes container unit/trailer or tent. Contractor usually installs container units at their own cost.											
Sign/Look Staging, Work Space/Secure Storage	50	1	50	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	-	Assumes container unit/trailer or tent.											
Material Warehouse/Construction Work Space	80	1	80	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	-	Enclosed space. Area for carpentry, painting and general construction. Storage for non-weather proof materials.	Assumes tent or canopy with 2 side walls.											
Vendor Secure Storage	60	1	60	-	Area for containers, usually provided by the various temporary construction sub-contractors.	-	Enclosed space.	Assumes container unit/trailer or tent or existing space.											
Materials Staging Area	50	1	50	-	Area for the off-loading and loading of bulk construction materials.	-	Area only.	-											
Exterior Storage Area	50	1	50	-	Outdoor storage of material and products.	-	Area only.	Weatherproof area for large and bulk materials.											
Vehicle Staging	90	1	90	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	-	Area only.	Service, Repair & Specialty vehicles.											
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.											P
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.	-											P
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.											P
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.											
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-	-											

BIATHLON

Space Sub-space(s)	Net Area - D107	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Venue Management																			
Venue Operations Centre (VOC)	60	1	60	90	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Dependent upon venue capacity and venue layout.					F					P	
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-											
Assigned Desks	20	1	20	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Space and Storage	18	1	18	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	40	1	40	50	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.					F					P	
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	24	1	24	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	-											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	150	1	150	180	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre or in close proximity to VOC.	Enclosed space.	Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.					F					P	
Snow Removal Compound	-	-	-	-	A service area where the snow removal contractor operates at the venue and performs the snow removal.	Located in the BOH area; adjacent to or within the Logistics or Waste Management compounds.	-	-											
Equipment Storage	15	1	15	-	Area for storage of snow removal equipment.	-	May require covered and enclosure.	-											
Truck & Equipment Staging	50	Varies	Varies	-	Area for staging of snow removal vehicles and equipment	-	May require covered and enclosure.	Number required may vary according to layout and/or size of venue.											
Supply Storage Area	50	Varies	Varies	-	Area for storage of supplies that may be required for snow removal (i.e. salt).	-	May require covered and enclosure.	Number required may vary according to layout and/or size of venue.											
Snow Storage / Removal Area	-	-	-	200-2000	An area or location where snow can be stored after it is removed from operational areas of the venue.	Located outside of operational areas of the venue.	Area only for dumping of snow removed areas of the venue. May require multiple locations that may exist off venue or outside the venue perimeter.	Area requirements will be based on size of venue. Snow removal may require hauling/transport to off venue location.											
Workforce																			
Workforce Area	150	1	150	180	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.					F					P	
Check-In Area	96	1	96	-	Area to log-in venue workforce and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Space	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	335	1	335	400	The space where workforce meals are served and where workforce can break during shifts.	A location that will provide easy access to all venue workforce for breaks and meals; will vary according to venue layout/distances.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon venue workforce numbers.					F					P	
END OF DOCUMENT																			

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation					
Accreditation																								
Venue Accreditation Office	50	1	50	125	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space. Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.											P					
Day Pass Issue & Problem Resolution Desk	15	1	15	-																				
Work Space	15	1	15	-																				
Manager Desk or Office & Storage	12	1	12	-																				
Waiting Area	8	1	8	-																				
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	Located in the Back of House area, on the perimeter of an accredited area and/or entry.	May be required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.					F						P					
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.						F										
Broadcast																								
Broadcast Compound	-	1	-	5000	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, normally in the Back of House area, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements. Gross area includes snow removal access.									J	J	R	IOC				
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.										I	F	G	IOC			
Broadcast Manager Office	12	1	12	-	-	-	-	-																
Work Room, Assigned & Unassigned Desks	48	1	48	-	-	-	-	-																
Technical Operations centre	40	1	40	100	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.										I	F	R	IOC			
Broadcast Catering	140	1	140	180	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	-																
Kitchen & Prep	20	1	20	-	-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.																
Buffet Line & Dining	120	1	120	-	-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.																
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements.																
Work Space(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-																
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters.																
Work Space(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-																
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.																
Toilets	1.5	8	12	36	-	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Secondary Broadcast Compound	-	-	-	230	Serves as a secondary unit to the main compound to house various broadcast technical needs that are required for Broadcast to cover the full competition FOP or area.	Located adjacent to FOP.	Area only. Required on venues where size of FOP or location of Primary Compound exceeds cabling capabilities.	Specific elements are venue/sport specific.										J	J	R	IOC			
Toilets	1.5	2	3	-	Toilet units designated for broadcast personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Commentator Control Room (CCR)	10	1	10	15	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in Back of House area, in close proximity to commentator position area.	Enclosed space with incoming television cable.	Assumes existing space or container unit.										I	F	R	IOC			
Broadcast Information Office (BIO)	20	1	20	25	Space for broadcast management and team meetings.	Back of House area; located near commentator positions and CCR.	Enclosed space.	Assumes existing space or container unit.										J	J	R	IOC			
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-										J	J	G	IOC			
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J									R	IOC			

BOBSLEIGH / LUKE / SKELETON

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Mixed Zone	25	1	25	90	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Located in the Back of House, adjacent to the FOP.	<u>Gross area</u> includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I		I	J						R	IOC, IF
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in cabins and/or container units with view to FOP and finish areas.	Each position = <u>2m x 2m (4m²)</u> , this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Commentator positions at outdoor venues are normally located in temporary cabin/container/trailer units.			I	J						R	IOC
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	-	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	-			I	J							
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions.	1 position = uses 1 seat in existing seating bowls.	-			I	J						R	IOC
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	May require raised platform depending on design of track/course. FOP Camera positions are dependent upon production plans and IF approval.	J		I	J						R	IOC
Camera Position - Other	4	35	140	315	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	-	I	I	J							R	IOC
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-					J	I	J			G	IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	See also Technology requirements.					J	I	J			G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in Back of House areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.					J	I	J			G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography, in conjunction with OBS and IFs.	J				J	I	J			R	IOC
Catering																			
Catering Compound	565	1	565	1020	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity. Gross area includes snow removal access.		I		F						P	
Work Spaces - Catering Management	28	1	28	-	Operational work space(s).	Located in Back of House area.	Enclosed space.	Assumes existing space or container.											
Organising Committee Catering Manager	-	-	-	-	-	Located in Venue Operations Centre.	See Venue Management - VOC.	-											
Catering Contractor	16	1	16	-	-	-	-	-											
Beverage Contractor	12	1	12	-	-	-	-	-											
Dry, Cold and Ice Storage	38	6	228	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.											
Vehicle Staging	90	1	90	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-											
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-											
Kitchen and Preparation Area	80	1	80	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.											
Uncovered Storage	75	1	75	-	Outdoor storage of material and products.	-	Area only.	-											
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilets should be provided.											
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit.	-											
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in the Front of House, in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container's). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity and level of catering activity.		I		F						P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	Located in the Front House area, adjacent to spectator points of sale.	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	Located in the Front House area, adjacent to spectator points of sale.	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Outlets' Look	-	-	-	-	-	-	See Look for details.	-	I		F							P	

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Ceremonies																				
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-											P	
Ceremonies Staging	36	1	36	45	Area to coordinate ceremonies; e.g. podium, procession, recession route and flags. .	Adjacent to or close to FOP.	Consists of coordinator work space with area for anthem storage, secure storage, preparation and dressing area; see below for additional details.	Assumes existing space or container.											P	
Manager Desk	6	1	6	-	Workspace for Manager.	-	-	-												
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenters, Medal/Flower staging, Secure medal and flag storage	22	1	22	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format. Medals storage is not required for those venues where the medal ceremony will take place at another location.												
Presenter Preparation and Dressing	4	2	8	-	A dressing and preparation area for Presenters.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-												
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	Close to FOP.	Limited use, may be shared with other space. See Sport Presentation.	-		I		F							P	
Awards Podium Storage	12	1	12	15	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	-			I	F							P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.	I		J	J					G	R	IOC	
Cleaning and Waste																				
Cleaning & Waste Compound	252	1	252	420	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House (BOH) area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependant upon venue capacity. Gross area includes snow removal access.							F				P	
Vehicle Staging	72	1	72	-	Parking area for collection vehicles which generally remain inside the venue.	BOH	Area only.	-												
Sorting Area	72	1	72	-	Area for sorting waste.	BOH	Area only.	-												
Waste & Recycle Containers	15	4	60	-	Area in front of waste and recycle bins where material is separated for containment.	BOH	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).												
Compactor Unit	25	Varies	Varies	-	-	BOH	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.												
Equipment Supply & Storage	15	2	30	-	Space for cleaning equipment and paper product.	BOH	Enclosed space.	Assumes container unit.												
Contractor Office	18	1	18	-	Space for management and workforce staging.	BOH	Enclosed space.	-												
Doping Control																				
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of House. Located in arrivals building /finish area.	Enclosed air-conditioned space with secure entry.	-	J		J	J							R	IOC
Waiting Area/Reception	26	1	26	30	Area where athletes check-in and wait prior to testing.	-	-	-												
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Blood Processing Room(s)	15	Varies	Varies	20 (each)	Area where athlete blood samples are provided and sealed	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer. Wash basin for hand sanitisation.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Office / Storage	12	1	12	15	Work and storage space for Doping Manager.	-	Enclosed space. Secure storage.	-												
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-	I		J	J							R	IOC

BOBSLEIGH / LUGE / SKELETON

Space <small>(Sub-space(s))</small>	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator Government	OBS-OBO	IPC	G - Generic Space R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Event Services																		
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.										P
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-										
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).										
Briefing Area	Varies	Varies	Varies	-	Area for briefing of workforce pre-shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.										P
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.										P
Information Desk	-	-	-	-	-	-	-	-										
Lost and Found	-	-	-	-	A holding area for items found in the venue.	-	-	-										
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spect-	-	-	-										
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	-	-	Will depend on level of service at venue.										P
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes; located between screening/search area and spectator plaza.	Total number generally 50% of security screening positions.										P
Stroller Storage	Varies	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	In close proximity to seating area.	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.										P
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.										P
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators										P
Spectator Shade and Shelter	Varies	Varies	Varies	72 (each)	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and spectator service amenities.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.										P
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-										P
Spectator Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators.	Located in FOH, close proximity to seating and spectator amenities.	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.										P
Hand Wash Stations	1	Varies	Varies	6 (per 20 toilets)	A chemical unit used in the absence of potable water	Located in FOH, close proximity to seating and spectator amenities.	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.										P

BOBSLEIGH / LUGE / SKELETON

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Finance																			
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I		F						P	
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Located in Front of House, both inside venue perimeter and outside venue perimeter.	Area only.	Quantity dependent upon venue capacity.		I		F						P	
Language Services																			
Work Space / Desk	20	1	20	25	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre (VOC).	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-		J	J			I				G	IOC
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference ne-	-		J	J			I				G	IOC
Logistics																			
Logistics Compound	-	1	-	780	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access.					F					P	
Logistics Centre	60	1	60	-	-	-	Enclosed space.	Assumes container units or tent.											
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-											
Team Staging/Work Space	33	1	33	-	Space for staging and a work area.	-	-	-											
Secure Storage & Equipment Sign-out	15	1	15	-	Area for storage.	-	Storage for tools.	-											
Warehouse Storage	90	1	90	-	Storage area for furniture, fixtures, and equipment (F	-	Enclosed space.	Assumes tent											
Storage Yard	75	1	75	-	Outside storage area within compound.	-	Area only.	-											
Vehicle Staging	100	1	100	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-											
Fuel Tank(s)	9	Varies	Varies	25 (each)	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.											
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.											
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.											
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.											
Material Transfer Area (MTA)	-	1	-	575	Generally for deliveries to the venue that may take place after hours or not within the logistics delivery window period.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.					F					P	
X-Ray Area	36	1	36	72	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.											

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Space <small>Sub-space(s)</small>	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Look of the Games																			
Work Space and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.										P	
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J					J	R	IOC	
National Olympic Committee (NOC) Flags	Varies	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events) and competition format.	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.			J	J				J	R	IOC	
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and Back of House locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J					J	G, R, P	IOC, IF
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals. Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.			I	J	J				J	G, R	IOC, L
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH)	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.			I	J	J				J	G, R	IOC, L
Backdrop - Press Conference Room	2.2 x 6	1	2.2 x 6	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F			I	I			
Outlets' Look	-	-	-	-	Look required for concessionaire units.	Located in FOH.	Venue catering and merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-	I			F						P	

BOBSLEIGH / LUGE / SKELETON

Principles of Stakeholder
Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space <small>(Sub-space(s))</small>	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Medical Services																			
Athlete Medical	65	1	65	100	An area where Medical provides services to athletes competing at the venue.	Back of House. Located in arrivals building /finish area.	Enclosed space.	Assumes container or existing space.	J	J	J						R	IF	
Reception & Waiting	12	1	12	-	Area where athletes check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Physiotherapy Area(s)	8	2	16	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J						S	IF	
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.											
Spectator Medical	50	1	50	100	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed space. 1 per 20,000 spectators.	Assumes container unit or existing space.		I	F		I				P		
Reception & Waiting	12	1	12	-	Area where spectators check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	12	1	12	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Triage Station	36	1	38	72	Additional space to treat minor medical needs of spectators.	Located in the Front of House.	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.		I	F		I				P		
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only. For Winter Games, the ambulances may need heated shelters or access to electrical outlets for block heaters and protection from snow and ice.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.				F	I				P		
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Area only. Paved, graveled or grass area with fence, barricade or rope enclosure.	-			F		I					P	
Merchandise																			
Office, Cash Room & Work Space	12	1	12	15	An area to manage the retailing of all Olympic merchandise inside the venue.	-	Enclosed space with secure entry.	Assumes container unit or existing space.			F							P	
Storage	15	2	30	35	-	-	-	Assumes storage containers or existing space.			F							P	
Program Sales Stands/Booths	1	1	1	2	-	-	Area only.	Units provided by vendor. Quantity and location decided by vendor and OCOG.			F							P	
Merchandise Points of Sale (POS)	6	Varies	Varies	18 (each)	Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.	Gross area is per each P.O.S. and includes service area and queue.	I	F								P	
Outlets' Look	-	-	-	-	-	-	See Look for details.	-	I	J	J						G	R	IOC

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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Olympic Family Services																				
Olympic Family Lounge	240	1	240	500	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes tent.	I		I	F					G	G	IOC	
Welcome Desk and Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-	-												
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.	-												
Workforce/Volunteer Room and Storage	12	1	12	-	On-call waiting area for Protocol workforce and equipment storage.	-	-	-												
Dining and Lounge	140	1	140	-	Area for dining and lounge.	-	-	-												
Preparation/Buffer set-up/Beverage Area	70	1	70	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Workforce/Volunteer, Athlete, Media)	-												
Toilets	30	1	30	60	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	4 female, 4 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided												
Protocol flags	-	-	-	-	-	-	See Look of the Games.	-			J	J						R	IOC	
Press Operations																				
Venue Media Centre (VMC)	575	1	575	725	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Conference Room and Photo Positions.	Close proximity to Press Conference Room and Mixed Zone area.	Enclosed space for press and photographers.	Based on the concept and plan for the Games, if the mountain venues and city venues, including the Main Press Centre, are separated by more than one hour of travel time, a mountain sub-MPC will need to be established. The size of this facility should be no less than 3,000 sq. m. plus adjacent transport hub and logistics compound. This facility will offer additional facilities and services for the media in the mountains, including private rental offices, image centre, extended operating hours and catering. The site of the sub-MPC should be that of the Venue Media Centre for the Alpine skiing events.					F				R	IOC		
Reception & Information Desk	20	1	20	-	Welcome desk at the entrance, for information distribution.	-	-	-												
Storage	10	1	10	-	Equipment storage.	-	-	-												
Press Manager Office	15	1	15	-	Operational work space.	-	-	-												
Photo Manager Office	15	1	15	-	Operational work space.	-	-	-												
IF Media Office	15	1	15	-	Operational work space.	-	-	-												
Olympic News Service (ONS) Work Room or Area	25	1	25	-	Operational work space.	-	Enclosed space.	-												
Info Stations	20	1	20	-	Computer stations and printers.	-	-	-												
Press Work Room or Area	220	1	220	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.												
Photo Work Room or Area	80	1	80	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.	-												
Photographers Check-in & Photo Bib Distribution	16	1	16	-	Area where photographers register and receive/return photo bibs.	-	-	-												
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.												
Lounge/Catering Preparation	120	1	120	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-	-												
Toilets	1.5	6	9	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided												

BOBSLEIGH / LUGE / SKELETON

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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	I	J	F	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R - Requirement, G - Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Press Conference Room	140	1	140	200	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams .	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I					F						R	IOC
Seating Area	100	1	100	-	An area for accredited press.	-	Seats and standing room.	-													
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3 .6 m table, 8 chairs & step and repeat backdrop.	-													
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-													
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-													
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-						F			I	I			
Mixed Zone	880	1	80	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I											R	IOC,IF
Press Tribune	-	-	-	-	A section of the standing in the Mixed Zone area (outdoor venues) and of the seating (indoor venues) dedicated to accredited journalists and photographers.	-	For outdoor venues telephones, television monitors, power and other press facilities are existing in the VMC.	-													
Standing Area in the Mixed Zone	Varies	Varies	Varies	-	An area for accredited press.	For outdoor venues, located near finish area or outrun of course area.	An open, corralled area.	Exceptions may exist at various venues.						I	F					R	IOC,IF
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided													
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-													
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	Located along FOP.	60 cm wide x 90 cm deep per position, multi-row areas require 60 cm riser per row.	Power, Wireless and data cabling needed to photo positions on FOP.	J											R	IOC, IF
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Normal seating areas.	-	Seating areas are generally not applicable for outdoor venues.	I											G	IOC
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-													

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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Security																			
Security Command Centre	120	1	120	145	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.											
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-											
Security Work Space	15	1	15	-	An area for additional security agencies.	-	-	-											
CCTV Surveillance & Video Desk	15	1	15	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-											
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.											
Radio Dispatch & Monitoring	15	1	15	-	An area for the monitoring and control of security communication and the distribution/return of security radios.	-	-	-											
Work Room	50	1	50	-	Open plan of work stations designated for security personnel.	-	-	-											
Secure Storage	10	1	10	-	An area for Security equipment storage.	-	Enclosed, secure space.	-											
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-											
Briefing and Break Area / Staging Area	140	1	140	170	Area for briefing workforce before and after shifts.	-	Enclosed space.	Assumes tent.											
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.											
Vehicle Screening & Sanitisation Area	569	1	569	800	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.											
Vehicle Queue	175	1	175	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-											
Oversized Vehicle Queue	140		140	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-											
Vehicle Sanitisation & Wanding Areas	150		75	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.											
Oversized Vehicle (Truck & Bus) Sanitisation	70		70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-											
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.											
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Enclosed space for staging and break.	-											
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the venue secure perimeter and/or venue screening area for constituents.	-	Dependent upon spectator capacity and venue design.											
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-											
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-											
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-											
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.											

BOBSLEIGH / LUGE / SKELETON

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the venue secure perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.										G	P	
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the venue secure perimeter.	Enclosed space for screening/search area positions.. Net area for each screening position will accommodate the following: 4 Wanding Stations, OR - 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue. Dependent upon spectator capacity and venue design.												
Athlete / Team	18	1-2	18-36	36-72	-	BOH.	-	-	I			F								P
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with Athlete and/or Olympic Family.	I			F								P
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with TO, ENG and/or Press.	I		I	F								P
Broadcast	18	1-2	18-36	45-90	-	BOH.	-	If possible, direct access from outside venue perimeter into Broadcast Compound.				F		I					R	IOC
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	BOH; located in close proximity to Venue Broadcast Compound.	-	-												
Press and Photographer	18	1-2	18-36	36-72	-	BOH; located in close proximity to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast).	If possible, direct access from outside venue perimeter into Venue Media Centre.					F						R	IOC
Workforce (Staff/Volunteer/Contractor/Vendor)	18	2-3	36-54	90-135	-	BOH or possibly FOH.	-	-					F						G	IOC
Spectator / Sponsors	18	Varies	Varies	54	-	FOH.	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-					F							P
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.												
Exception Gate	Varies	Varies	Varies	-	Access gate for designated accredited personnel.	FOH; located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.												
X-ray of bags	36	Varies	Varies	72 (each)	Device for screening bags/equipment coming into the venue.	FOH and BOH.	Covered.	-				I		F				G	P	
Venue Perimeter Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	Dependent upon spectator capacity and venue design.					F		I					P
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	1m to 3m width, sometimes used as a secondary service vehicle exit point.	-												
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m each, number varies per concourse design.	-												
Workforce (Staff/Volunteer/Contractor/Vendor)	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	Size dependant upon total workforce numbers.												
Sponsor Services																				
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.					I		F					P

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Sport Operations																			
Weighing House/Take out Building (LUGE)	55	1	55	75	An area for weigh-in room, Drawn Athletes Inspection Room and Sledges Inspection Room	Located in close proximity to course/track arrival/finish area; within the take-out building.	-	During Bobsleigh / Skeleton competition, area/building may be used as a warming area for athletes/teams while waiting at the arrival / finish area.	J			J						R	IF
Weigh-in Area	15	1	15	-	-	-	-	-											
Medical Room / Race Doctor	15	1	15	-	-	-	-	-											
Athletes Locker Room	15	1	15	-	-	-	-	-											
Sports Information Desk	10	1	10	-	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located adjacent to athlete area.	Enclosed space with waiting area and seating.	Includes: information boards, pigeon holes, Info & Help Desk, work area, info terminal stations & storage.	J			J						R	IF
Restricted Control Area (LUGE)	20	1	20	30	Area to maintain control of pedestrian traffic.	Located outside Weighing House/Take Out Building on the ramp beside outrun Sledge and Athlete Inspection.	-	-	J			J						R	IF
Starting Area	-	-	-	-	-	-	-	Sufficient flat surface areas should be available in the area of the start.	J			J						R	IF
Warm-up / Stretching Area	60 x 10	1	600	-	Area where athletes perform warm-up routines/exercises prior to competition.	Located in starting area of track.	Area only.	Parking lot or access road with level and good running surface may be used.											
Sled Parking Area	-	-	-	800	Area where sleds for bobsleigh area parked.	Located in starting area of track.	Area only; no cover required.	-											
Parking Area for venue vehicles	-	1	-	200	Area for parking of working / sport services vehicles.	Located in starting area of track.	Area only.	Consideration should be given to an area that is in close proximity to the start area for sport working vehicles (12-14 vehicles).											
Unloading and loading Area	100	1	100	150	Area for unloading and loading sleds.	Located at the start area, in close proximity to start house.	Staging area and ramp for unloading and loading.	-											
Covered Starting Stretch	6 x 15	1	90	130	Area for preparation prior to race start.	Located immediately behind start block/line.	Covered area and iced surface. See FIBT Rules for further specifications.	For Luge "iced" not required.											
Starting Room	10	1	10	15	-	-	-	-											
Start Ramp and Official Control Area	30	1	30	45	-	Adjoining to the Start House.	-	-											
Starting House	-	-	-	-	-	Located at track start area.	-	A second start house/area or lower start house may be necessary for Luge if the track design, specifically the start area, cannot meet both Bobsleigh/Skeleton & Luge competition requirements. Easy access for internal vehicles between arrivals areas and start area.	J			J						R	IF
Athlete Locker Rooms	50	3	150	200	Change-room facilities to accommodate athletes at the venue during competition and training.	Located in Starting House.	Enclosed space. Facilities for both male and female.	Assumes permanent structure. Shower facilities may not be necessary.											
Warm-up Room	30	1	30	-	Warm-up room for athletes.	Located adjacent to change-rooms / athlete locker rooms.	Enclosed space.	-											
Office - Start Leader /Jury/TD	10	1	10	15	Office are for race officials.	Located in starting house.	-	-											
Luge - Sledge Preparation Area	100	1	100	-	Work space for sled preparation.	Located in starting house.	Covered space.	-											
Lower Starting Area (Luge-ladies double)	-	-	-	-	-	-	-	-	J			J						R	IF
Warm-up / Stretching Area	30 x 5	1	150	-	Area where athletes perform warm-up routines/exercises prior to competition.	Located in starting area of track.	Area only.	Parking lot or access road with level and good running surface may be used.											
Parking Area for venue vehicles	-	1	-	200	Area for parking of working / sport services vehicles.	Located in starting area of track.	Area only.	Consideration should be given to an area that is in close proximity to the start area for sport working vehicles (12-14 vehicles).											
Covered Starting Stretch	6 x 15	1	90	130	Area for preparation prior to race start.	Located immediately behind start block/line.	Covered area and iced surface. See FIBT Rules for further specifications.	For Luge "iced" not required.											
Starting Room	10	1	10	15	-	-	-	-											
Start Ramp and Official Control Area	30	1	30	45	-	Adjoining to the Start House.	-	-											
Lower Starting House	-	-	-	-	-	-	-	A second start house/area or lower start house may be necessary for Luge if the track design, specifically the start area, cannot meet both Bobsleigh/Skeleton & Luge competition requirements.	J			J						R	IF
Athlete Locker Rooms	50	3	150	200	Change-room facilities to accommodate athletes at the venue during competition and training.	Located in Starting House.	Enclosed space. Facilities for both male and female.	Assumes permanent structure. Shower facilities may not be necessary.											
Warm-up Room	30	1	30	-	Warm-up room for athletes.	Located adjacent to change-rooms / athlete locker rooms.	Enclosed space.	-											
Office - Start Leader /Jury/TD	10	1	10	15	Office are for race officials.	Located in starting house.	-	-											
Luge - Sledge Preparation Area	100	1	100	-	Work space for sled preparation.	Located in starting house.	Covered space.	-											
Team Sled Storage & Maintenance Area	10 x 25	Varies	250 (each)	325 (each)	Area for storage and maintenance of sleds and equipment.	Located in close proximity to course.	Easy access to arrival/finish area and start area.	Assumes temporary units (i.e. container units) with temporary power requirements. Quantity varies according to team numbers. Not required for Luge, as they carry their sleds to and from the Olympic Village.	J			J						R	IF

BOBSLEIGH / LUKE / SKELETON

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	Reference should be made to FIBT/FIL guidelines for all FOP technical specifications.	-												
FOP Surface Dimensions or Area	-	-	-	-	-	-	See FIBT - International Bobsleigh Rules and FIL - International Luge Regulations for the specific technical requirements.	The vertical requirements of the hill should be between 12'-17' (20%-30%) and a difference in height of 120-130m. The medium gradient should be between 8.5% and 10. A direct line between the starting and arrival points should be 420-600m.	F			I						R	IF	
Surface	-	-	-	-	-	-	Ice. See FIBT - International Bobsleigh Rules and FIL - International Luge Regulations.	Terrain should be stable (no creeping areas) and suitable for foundations, excavation and banks of earth. An evaluation of water run-off (surface) and water-table (underground) should be completed.	J			J	I						R	IF
Orientation	-	-	-	-	-	-	The hill should be facing the north, this will protect it from direct sun radiation.	Easy access to utilities and infrastructure that are located in the area.	J			J	I						R	IF
Arrivals Area / Management / Finish House	245	1	245	400	A work area for sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located in the arrivals area.	Sufficient flat surface areas should be available in the area of the arrivals/finish.	Easy access for internal vehicles between arrivals areas and start area. Additional facilities for medical/first aid and doping control should be co-located in the Arrivals area / Finish House.	J			J							R	IF
Jury / Technical Delegates Work Area	30	1	30	-	Meeting and work area for IF officials.															
Race Director / Assistant Work Space	15	1	15	-																
Race Secretary Work Area	35	1	35	-	Open plan of work stations designated for Sport personnel (Competition Manager/Asst.).															
Competition Manager & Asst. Manager Desks	15	1	15	-	An area for the manager and assistant(s) manager.	-	-	-												
Assigned Work Space & Hot Desks	15	1	15	-	Open plan of work stations designated for Sport personnel.	-	-	-												
Work Space	15	1	15	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-												
Lounge - IF Officials	20	1	20	-	-	-	-	Assumes container units or existing space.												
IF & Sport Meeting Room (Conference area)	100	1	100	-	Meeting facility at the venue for teams and other sport related meeting needs (ie. Team captian meetings, seeding/draw).	Located in the competition management area.	-	Assumes container units or existing space.												
Athlete Lounge	140	1	140	180	An area where athletes can relax at the venue while not training or competing.	Located in arrival area.	Enclosed space.	Includes: seating area, lounge, Info & Help Desk, info terminal stations.	J			J							R	IF
Ice Masters Area	20	1	20	25	An area used by ice/snow technicians as a work area and lounge.	Located in Back of House, adjacent to technical equipment storage and ice making/refrigeration plant.	Enclosed space.	Assumes permanent or temporary structure.	J			J							P	IF
Ice Making / Refrigeration Plant	-	-	-	-	The building or area where all ice making/refrigeration production occurs for the track.	Located in close proximity to course.	See technical requirements /design requirements for previous Games Transfer of Knowledge (TOK). Required only if track is above land surface that prevents normal viewing points along track from a standing position.	-	J			J							R	IF
Coaches Platform	3	8	24	40	An area for coaches to observe competing athletes.	Located along track.	Area only; raised and level platform.	Exact locations should be decided jointly with FIBT & FIL consultation.	J			J							R	IF
Sports Lighting - Technical	-	-	-	-	-	-	See Broadcast for lighting specifications.	-												
Camera Positions	-	-	-	-	-	-	See Broadcast for camera positions.	-												
Toilets - Near FOP and Athlete Area(s)	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes at the venue.	Located in or near the following areas: Weighing House, Starting House / Lower Start House area, Arrival Building / area(s).	Separate male and female toilets required.	May be required for sport workforce use. Quantity varies according to athlete numbers.	I			F							P	
Sport Presentation																				
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.												
Sport Presentation Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-				F							P	
Announcer Position	3	1	3	-	-	-	-	-				F							P	
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space, consisting of work area, green room, entertainer staging and dressing and prop storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.				F							P	

Space <small>(Sub-space(s))</small>	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L- Legislation
Technology Operations																		
Technology Help Desk	20	1	20	24	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support workforce & manager.	The Help Desk and LAN Management may share a common space if necessary (e.g. when rooms or space are limited).					F					P
Venue Technology Operations (VTO)	35	1	35	40	OCOG Technology Operations area. Operational work space for entire Venue Technology team, .	Adjacent to or within Venue Operations Centre (VOC).	Medium Security - lockable room. Air-conditioned office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	No specific spaces for partners and contractors. Time and Scoring partner (e.g. OMEGA) will use the OVR room. When not in direct operation, partner technicians can stand-by in the Technicians Intervention room.					F				G	P
Technicians Intervention Room	35	1	35	40	A stand-by area for partner technicians when not in direct operation.	Located in close proximity to the VTO.	Enclosed space. Table and chairs. Shared area, separate desks not necessary.	-					F				G	P
Radio Distribution Room (RDR)	30	1	30	18	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E and workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).		I		F						P
Information Technology																		
Computer Equipment Room (CER)	15	1	15	25	Area for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room.	High Security - lockable room. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	The TER and CER may share a common space if necessary (e.g. when rooms or space are limited). Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.		I		F					G	P
Data Local Area Network (LAN) Management Room & Store	30	1	30	35	LAN monitoring room & associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational workforce & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces. The Help Desk and LAN Management may share a common space if necessary (e.g. when rooms or space are limited).					F				G	P

BOBSLEIGH / LUGE / SKELETON

Space <small>Sub-space(s)</small>	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Telecommunication & Audio Visual																			
Telecomm. Equipment Room (TER) Primary	45	1	45	50	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room.	High Security - lockable room. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	The TER and CER may share a common space if necessary (e.g. when rooms or space are limited). Raised flooring is preferable for cabling distribution, but not essential.		I		F						P	
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER.	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.		I		F						P	
Audio Control Positions	-	-	-	-	-	-	-	-				F					G	P	
Venue	4	1	4	8	Area for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Presentation. Can be on FOP, in stands or in a booth with view to FOP.	High Security-lockable room. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	-											
Press Conference	4	1	4	8	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), HVAC, weatherproof. Work space & FF&E for operator.	-											
Athletes Briefing	2	1	2	4	PA systems required for to facilitate announcements to athletes. Space required for amplifier/microphone.	Within briefing room/area for athletes.	Standard/mains power & FF&E.	-											
International Federation Area	2	1	2	4	PA systems required for Federation Area. Space required for amplifier/microphone.	Location as required by Sport/International Federation.	Standard/mains power & FF&E.	-											
Warm-Up Area	2	1	2	4	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Located in athlete warm-up area.	Standard/mains power & FF&E.	-											
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-											
Workforce Break/Dining	2	Varies	Varies	-	Area within break/dining area where audio control equipment is installed to facilitate meetings/training of large numbers of workforce.	Workforce break/dining areas.	Standard/mains power & FF&E.	-											
Video Board Control	10	1	10	12	Area of video control for video board or video projection system. Operations integral with those of Sport Presentation.	Located within Sport Presentation area. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	-				F					G	P	
Wired Communications Control	5	1	5	8	Area of wired communications master control station and support technician. System essential to operations of both Sport Presentation and Results/FOP management.	Located near or within Sport Presentation is recommended. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location is located outdoors. Good cable access to FOP, OVR Room, Sport Presentation, Broadcast Graphics Room & Results Printing required.	-				F					G	P	

BOBSLEIGH / LUGE / SKELETON

Principles of Stakeholder
Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Timing, Scoring and Results Operations																				
Timing and Scoring Position	-	-	-	-	Area(s) for event timing & scoring personnel & equipment during competition.	Located adjacent and/or close to FOP.	High Security Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards, speed guns & OVR room. Space & FF&E for operators and equipment.	Where timing and scoring take place outdoors, adequate weather (rain/sun/snow) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, OMEGA	
Start Area	1	1	1	2	Position where clock is started for event.	Located with sport at race start position.	Cable access to OVR room between all intermediate timing points, aligner hut & start position.	-												
Control Room	20	1	20	25	Area for central Timing & Scoring control operations, including Backup C system, Event Management & photo-finish system.	Located near finish area with view to FOP.	Cable access to OVR Room, Photo Finish Control & Intermediate Positions along course.	-												
Finish Area	1	1	1	2	-	-	-	-												
On Venue Results (OVR)	-	-	-	-	Area is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	-	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Adequate space and FF&E for high density of computer workstations, racks for servers and working space for technicians, operators, and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or where two sports occur concurrently will require more space for additional OVR equipment.	I	F								P	IF, OMEGA	
OVR Provider Work Space	20	1	20	25	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO, CIS, PRD, etc.).	Ideally adjacent to IT provider work area.	-	-												
IT Provider Work Space	20	1	20	25	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-												
Scoreboard Control	-	-	-	-	Area for scoreboard control operations. Operations integral with those of Sport Presentation, data provided from OVR System. Space for both Control and Interface workstations & 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Adequate space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.	I			F						G	P	IF, OMEGA
Scoreboard Control	10	1	10	12	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator & workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-												
Scoreboard Interface	4	1	4	6	Area for interface equipment (PC workstations) linking OVR system & Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-												

BOBSLEIGH / LUKE / SKELETON

Principles of Stakeholder
Involvement:
I-Input, J-Joint Decision,
F-Final Decision

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Results Printing (PRD)	Varies	1	Varies	-	Area for hard copy results production & distribution. Location of high intensity work involving many workforce preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area, room for Print Distribution Workstation (IDS interface) equipment and operator.	Located adjacent or in close proximity to Press Workroom. Easy access to Press Tribunes, Broadcast Commentary positions, Sport Information, Doping and Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specifications. Adequate space for interface equipment and graphics operators and good cable access to OVR room. Adequate space for staff and FF&E required for operational staff as well as 1 pallet of paper to support print/copy operations.		I	I	I	F					I	R	IF
TV Graphics Interface	6	1	6	9	Area where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operations and good cable access to OVR room.					I			F		G	P	
Technology Storage																			
Technology General Storage	60	1	60	75	Area for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F					G	P	
Timing and Scoring Storage & Workshop	20-30	1	20-30	25-35	In venue storage & workshop for timing equipment, spare parts & small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.			I		F					G	P	
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required to distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closets.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Workroom.	High Security - lockable and weatherproof. May require fan or dedicated A/C depending on room location and/or configuration. Fully redundant power (mains and generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.		I		F						P	
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of power from data/voice and audio-visual cabling.	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in a manner which allows for easy access and repair/replacement. Legacy installations should be installed as permanent while temporary (overlay) should be installed using methods which are easily installed and removed minimising potential damage to the existing structure or venue.				F						P	
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.														
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.														
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.														

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CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	-											
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	-											
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-											
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-											
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-											
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-											
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-											
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboard infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing and Scoring/OVR contractor.	I			F							P
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.											
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F							P
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the video board. Required for outdoor venues where the video boards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each video board.											
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Presentation on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F					G		P
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to/from audio/PA amplification system and/or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend PA speakers from venue ceiling structure.	-	-	-											
Mobile Phone Infrastructure (antenna)	15	1	15	25	Infrastructure required to support installation of additional radio antenna & mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to/from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.	I			F					G		P

BOBSLEIGH / LUKE / SKELETON

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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Ticketing																			
Ticket Box Office	40	1	40	100	An area at the venue where Olympic tickets are sold.	Located in Front of House, adjacent to the secure perimeter; near the spectator entry point of the venue.	Gross area includes internal & external queue.	Assumes container unit with disabled access to internal and external service window. Dependant upon venue layout and footprint, spectator access point locations.										P	
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	15	1	15	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s) & Will Call	15	1	15	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	25	1	25	50	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.											P
Driver Staging	80	1	80	150	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.											P
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside venue secure perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	20	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-											P
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from Host City, based on vehicle/bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J			J						I	P
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J			J						I	P
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				I	F						P
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.					F				I	G	IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.					F					G	IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.	I			F						G	IOC
Spectator and Workforce Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.					F						P
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.	I			F							P
Accessible	-	-	-	-	-	-	-	Part of Spectator total.					F						P
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Area only. Surface areas paved or gravel/hard pack surface.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have drop-off in close proximity to accredited entry point and then driver will park.				I	F						P
Start Area - Parking area (Luge/Bobsleigh)	-	-	-	-	-	-	See Sport Operations for details.	-											
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.					F				I		P
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.					F				I		P
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-				J	J						P
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes vehicle circulation.					F				I		P
Emergency Services	-	-	-	50 (each)	-	Generally located inside the secure venue perimeter.	-	Includes vehicle circulation.					F				I		P
Vehicle Chain-up Area	-	-	-	700	Area that vehicles (cars, buses, etc.) use to install chains onto vehicle tires.	Located along venue access road.	-	Required only for mountain venues in which the access road has slope exceeding an 8% grade on gravel surface or 10% grade on paved road surface. May be dependent upon local legislation and/or requirements.					F						P

BOBSLEIGH / LUKE / SKELETON

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Venue Development																			
Site Management Compound	503	1	503	650	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Gross area includes snow removal access. Dependent upon venue footprint, extent of temporary works and number of contractors.											
Site Management Area	60	1	60	-	-	-	Enclosed space.	Assumes container unit/trailer or tent.											
Site Manager & Assistant Site Manager(s) Work Space	12	1	12	-	Work and meeting area for the Site Manager and additional staff.	-	-	-											
Site Administration Desk & Work Space	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-	-											
Response Team & Vendor Staging	24	1	24	-	On-site permanent and temporary facilities for specialty workforce and general labor crew to be on-call.	-	-	-											
Secure Storage - Site Management	12	1	12	-	Area for storage.	-	-	-											
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.	-	Enclosed space. Area for office, staging and a secure storage area.	Assumes container unit/trailer or tent. Contractor usually installs container units at their own cost.											
Sign/Look Staging, Work Space/Secure Storage	50	1	50	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	-	Assumes container unit/trailer or tent.											
Material Warehouse/Construction Work Space	80	1	80	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	-	Enclosed space. Area for carpentry, painting and general construction. Storage for non-weather proof materials.	Assumes tent or canopy with 2 side walls.											
Vendor Secure Storage	60	1	60	-	Area for containers, usually provided by the various temporary construction sub-contractors.	-	Enclosed space.	Assumes container unit/trailer or tent or existing space.											
Materials Staging Area	50	1	50	-	Area for the off-loading and loading of bulk construction materials.	-	Area only.	-											
Exterior Storage Area	50	1	50	-	Outdoor storage of material and products.	-	Area only.	Weatherproof area for large and bulk materials.											
Vehicle Staging	90	1	90	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	-	Area only.	Service, Repair & Specialty vehicles.											
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.											P
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.	-											P
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.											P
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.											
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-	-											

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Venue Management																			
Venue Operations Centre (VOC)	60	1	60	90	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Dependent upon venue capacity and venue layout.					F					P	
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-											
Assigned Desks	20	1	20	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Space and Storage	18	1	18	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	40	1	40	50	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.					F					P	
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	24	1	24	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	-											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	150	1	150	180	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre or in close proximity to VOC.	Enclosed space.	Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.					F					P	
Snow Removal Compound	-	-	-	-	A service area where the snow removal contractor operates at the venue and performs the snow removal.	Located in the BOH area; adjacent to or within the Logistics or Waste Management compounds.	-	-											
Equipment Storage	15	1	15	-	Area for storage of snow removal equipment.	-	May require covered and enclosure.	-											
Truck & Equipment Staging	50	Varies	Varies	-	Area for staging of snow removal vehicles and equipment	-	May require covered and enclosure.	Number required may vary according to layout and/or size of venue.											
Supply Storage Area	50	Varies	Varies	-	Area for storage of supplies that may be required for snow removal (ie salt).	-	May require covered and enclosure.	Number required may vary according to layout and/or size of venue.											
Snow Storage / Removal Area	-	-	-	200-2000	An area or location where snow can be stored after it is removed from operational areas of the venue.	Located outside of operational areas of the venue.	Area only for dumping of snow removed areas of the venue. May require multiple locations that may exist off venue or outside the venue perimeter.	Area requirements will be based on size of venue. Snow removal may require hauling/transport to off venue location.											
Workforce																			
Workforce Area	150	1	150	180	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.					F					P	
Check-In Area	96	1	96	-	Area to log-in venue workforce and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Space	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	335	1	335	400	The space where workforce meals are served and where workforce can break during shifts.	A location that will provide easy access to all venue workforce for breaks and meals; will vary according to venue layout/distances.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon venue workforce numbers.					F					P	
END OF DOCUMENT																			

CROSS COUNTRY SKIING / NORDIC COMBINED

Principles of Stakeholder
Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation					
Accreditation																								
Venue Accreditation Office	50	1	50	125	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space. Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.											P					
Day Pass Issue & Problem Resolution Desk	15	1	15	-																				
Work Space	15	1	15	-																				
Manager Desk or Office & Storage	12	1	12	-																				
Waiting Area	8	1	8	-																				
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	Located in the Back of House area, on the perimeter of an accredited area and/or entry.	May be required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.					F						P					
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Broadcast																								
Broadcast Compound	-	1	-	5000	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, normally in the Back of House area, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements. Gross area includes snow removal access.																
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Broadcast Manager Office	12	1	12	-	-	-	-	-																
Work Room, Assigned & Unassigned Desks	48	1	48	-	-	-	-	-																
Technical Operations centre	40	1	40	100	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Broadcast Catering	140	1	140	180	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	-																
Kitchen & Prep	20	1	20	-	-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.																
Buffet Line & Dining	120	1	120	-	-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.																
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements. Located in temporary structure. Assumes container/trailer unit or tent.																
Work Space(s)	20	Varies	Varies	-	-	-	Enclosed space.	-																
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-																
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters. Located in temporary structure. Assumes container/trailer unit or tent.																
Work Space(s)	20	Varies	Varies	-	-	-	Enclosed space.	-																
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-																
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.																
Toilets	1.5	8	12	36	-	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Commentator Control Room	10	1	10	15	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in Back of House area, in close proximity to commentator position area.	Enclosed space with incoming television cable.	Assumes existing space or container unit.																
Broadcast Information Office (BIO)	20	1	20	25	Space for broadcast management and team meetings.	Back of House area; located near commentator positions and CCR.	Enclosed space.	Assumes existing space or container unit.																
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-																
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J			J	J				R	IOC				

CROSS COUNTRY SKIING / NORDIC COMBINED

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Mixed Zone	25	1	25	90	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Located in the Back of House, adjacent to the FOP.	<u>Gross area</u> includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I	I	J							R	IOC, IF	
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in cabins and/or container units with view to FOP and finish areas.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Commentator positions at outdoor venues are normally located in temporary cabin/container/trailer units.			J							R	IOC	
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	-	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	-			J									
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions.	1 position = uses 1 seat in existing seating bowls.	-			J							R	IOC	
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval.	J	I	J							R	IOC	
Camera Position - Other	4	35	140	315	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	-	I	I	J							R	IOC	
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-				J	I		J				G	IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	See also Technology requirements.					J	I		J			G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in Back of House areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.					J	I		J			G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography	J			J	I		J	I			R	IOC
Catering																				
Catering Compound	565	1	565	1020	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity. Gross area includes snow removal access.		I		F							P	
Work Spaces - Catering Management	28	1	28	-	Operational work space(s).	Located in Back of House area.	Enclosed space.	Assumes existing space or container.												
Organising Committee Catering Manager	-	-	-	-	-	Located in Venue Operations Centre.	See Venue Management - VOC.	-												
Catering Contractor	16	1	16	-	-	-	-	-												
Beverage Contractor	12	1	12	-	-	-	-	-												
Dry, Cold and Ice Storage	38	6	228	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.												
Vehicle Staging	90	1	90	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-												
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-												
Kitchen and Preparation Area	80	1	80	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.												
Uncovered Storage	75	1	75	-	Outdoor storage of material and products.	-	Area only.	-												
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilets should be provided.												
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit.	-												
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in the Front of House, in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container's). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity and level of catering activity.	I		F								P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	Located in the Front House area, adjacent to spectator points of sale.	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.												
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	Located in the Front House area, adjacent to spectator points of sale.	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.												
Outlets' Look	-	-	-	-	-	-	See Look for details.	-	I		F								P	

CROSS COUNTRY SKIING / NORDIC COMBINED

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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Ceremonies																				
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-											P	
Ceremonies Staging	36	1	36	45	Area to coordinate ceremonies; e.g. podium, procession, recession route and flags. .	Adjacent to or close to FOP.	Consists of coordinator work space with area for anthem storage, secure storage, preparation and dressing area; see below for additional details.	Assumes existing space or container.											P	
Manager Desk	6	1	6	-	Workspace for Manager.	-	-	-												
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenters, Medal/Flower staging, Secure medal and flag storage	22	1	22	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format. Medals storage is not required for those venues where the medal ceremony will take place at another location.												
Presenter Preparation and Dressing	4	2	8	-	A dressing and preparation area for Presenters.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-												
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	Close to FOP.	Limited use, may be shared with other space. See Sport Presentation.	-		I		F							P	
Awards Podium Storage	12	1	12	15	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	-			I	F							P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.	I		J	J				J	G	R	IOC	
Cleaning and Waste																				
Cleaning & Waste Compound	252	1	252	420	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House (BOH) area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependant upon venue capacity. Gross area includes snow removal access.											P	
Vehicle Staging	72	1	72	-	Parking area for collection vehicles which generally remain inside the venue.	BOH	Area only.	-												
Sorting Area	72	1	72	-	Area for sorting waste.	BOH	Area only.	-												
Waste & Recycle Containers	15	4	60	-	Area in front of waste and recycle bins where material is separated for containment.	BOH	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).												
Compactor Unit	25	Varies	Varies	-	-	BOH	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.												
Equipment Supply & Storage	15	2	30	-	Space for cleaning equipment and paper product.	BOH	Enclosed space.	Assumes container unit.												
Contractor Office	18	1	18	-	Space for management and workforce staging.	BOH	Enclosed space.	-												
Doping Control																				
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	-	J		J	J							R	IOC
Waiting Area/Reception	26	1	26	30	Area where athletes check-in and wait prior to testing.	-	-	-												
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Blood Processing Room(s)	15	Varies	Varies	20 (each)	Area where athlete blood samples are provided and sealed	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer. Wash basin for hand sanitisation.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Office / Storage	12	1	12	15	Work and storage space for Doping Manager.	-	Enclosed space. Secure storage.	-												
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-	I		J	J							R	IOC

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Space <small>(Sub-space(s))</small>	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.											P
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of workforce pre-shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.											P
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.											P
Information Desk	-	-	-	-	-	-	-	-											
Lost and Found	-	-	-	-	A holding area for items found in the venue.	-	-	-											
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spectators.	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	-	-	Will depend on level of service at venue.											P
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes; located between screening/search area and spectator plaza.	Total number generally 50% of security screening positions.											P
Stroller Storage	Varies	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	In close proximity to seating area.	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.											P
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.											P
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators											P
Spectator Shade and Shelter	Varies	Varies	Varies	72 (each)	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and spectator service amenities.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.											P
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-											P
Spectator Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators.	Located in FOH, close proximity to seating and spectator amenities.	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.											P
Hand Wash Stations	1	Varies	Varies	6 (per 20 toilets)	A chemical unit used in the absence of potable water	Located in FOH, close proximity to seating and spectator amenities.	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.											P

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Finance																			
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I		F						P	
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Located in Front of House, both inside venue perimeter and outside venue perimeter.	Area only.	Quantity dependent upon venue capacity.		I		F						P	
Language Services																			
Work Space / Desk	20	1	20	25	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre (VOC).	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-		J	J			I				G	IOC
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference ne-	-		J	J			I				G	IOC
Logistics																			
Logistics Compound	-	1	-	780	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access.					F					P	
Logistics Centre	60	1	60	-	-	-	Enclosed space.	Assumes container units or tent.											
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-											
Team Staging/Work Space	33	1	33	-	Space for staging and a work area.	-	-	-											
Secure Storage & Equipment Sign-out	15	1	15	-	Area for storage.	-	Storage for tools.	-											
Warehouse Storage	90	1	90	-	Storage area for furniture, fixtures, and equipment (F	-	Enclosed space.	Assumes tent											
Storage Yard	75	1	75	-	Outside storage area within compound.	-	Area only.	-											
Vehicle Staging	100	1	100	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-											
Fuel Tank(s)	9	Varies	Varies	25 (each)	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.											
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.											
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.											
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.											
Material Transfer Area (MTA)	-	1	-	575	Generally for deliveries to the venue that may take place after hours or not within the logistics delivery window period.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.				F						P	
X-Ray Area	36	1	36	72	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.											

CROSS COUNTRY SKIING / NORDIC COMBINED

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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation		
Look of the Games																					
Work Space and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.											P		
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J								R	IOC	
National Olympic Committee (NOC) Flags	Varies	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events) and competition format.	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.		J	J								R	IOC	
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and Back of House locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J							J	G, R, P	IOC, IF
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals. Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.		I	J	J							J	G, R	IOC, L
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH)	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.		I	J	J							J	G, R	IOC, L
Backdrop - Press Conference Room	2.2 x 6	1	2.2 x 6	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F			I	I					
Outlets' Look	-	-	-	-	Look required for concessionaire units.	Located in FOH.	Venue catering and merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-		I		F								P	
Medical Services																					
Athlete Medical	65	1	65	100	An area where Medical provides services to athletes competing at the venue.	Located in Back of House within the accredited athlete area.	Enclosed space.	Assumes container or existing space.	J	J	J								J	R	IF
Reception & Waiting	12	1	12	-	Area where athletes check-in and wait prior to examination.	-	-	-													
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-													
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-													
Physiotherapy Area(s)	8	2	16	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-													
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.													
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J								J	S	IF
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.													
Spectator Medical	50	1	50	100	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed space. 1 per 20,000 spectators.	Assumes container unit or existing space.		I	F		I	I						P	
Reception & Waiting	12	1	12	-	Area where spectators check-in and wait prior to examination.	-	-	-													
Medical Work Space & Secure Storage	12	1	12	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-													
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-													
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.													
Triage Station	36	1	38	72	Additional space to treat minor medical needs of spectators.	Located in the Front of House.	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.		I	F		I	I						P	
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only. For Winter Games, the ambulances may need heated shelters or access to electrical outlets for block heaters and protection from snow and ice.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.					F	I	I					P	
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Area only. Paved, graveled or grass area with fence, barricade or rope enclosure.	-				F	I	I						P	

CROSS COUNTRY SKIING / NORDIC COMBINED

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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Merchandise																				
Office, Cash Room & Work Space	12	1	12	15	An area to manage the retailing of all Olympic merchandise inside the venue.	-	Enclosed space with secure entry.	Assumes container unit or existing space.					F						P	
Storage	15	2	30	35	-	-	-	Assumes storage containers or existing space.				F							P	
Program Sales Stands/Booths	1	1	1	2	-	-	Area only.	Units provided by vendor. Quantity and location decided by vendor and OCOG.				F							P	
Merchandise Points of Sale (POS) Outlets' Look	6	Varies	Varies	18 (each)	Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.	Gross area is per each P.O.S. and includes service area and queue.		I		F							P	
Olympic Family Services																				
Olympic Family Lounge	240	1	240	500	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes tent.	I		I	F					I	G	G	IOC
Welcome Desk and Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-	-												
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.	-												
Workforce/Volunteer Room and Storage	12	1	12	-	On-call waiting area for Protocol workforce and equipment storage.	-	-	-												
Dining and Lounge	140	1	140	-	Area for dining and lounge.	-	-	-												
Preparation/Buffer set-up/Beverage Area	70	1	70	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Workforce/Volunteer, Athlete, Media)	-												
Toilets	30	1	30	60	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	4 female, 4 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided												
Protocol flags	-	-	-	-	-	-	See Look of the Games.	-			J	J							R	IOC
Press Operations																				
Venue Media Centre (VMC)	910	1	910	1170	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Conference Room and Photo Positions.	Close proximity to Press Conference Room and Mixed Zone area.	Enclosed space for press and photographers.	Assumes tent.				F							R	IOC
Reception & Information Desk	30	1	30	-	Welcome desk at the entrance, for information distribution.	-	-	-												
Storage	10	1	10	-	Equipment storage.	-	-	-												
Press Manager Office	15	1	15	-	Operational work space.	-	-	-												
Photo Manager Office	15	1	15	-	Operational work space.	-	-	-												
IF Media Office	15	1	15	-	Operational work space.	-	-	-												
Olympic News Service (ONS) Work Room or Area	30	1	30	-	Operational work space.	-	Enclosed space.	-												
Info Stations	30	1	30	-	Computer stations and printers.	-	-	-												
Press Work Room or Area	400	1	400	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.												
Photo Work Room or Area	140	1	140	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.	-												
Photographers Check-in & Photo Bib Distribution	20	1	20	-	Area where photographers register and receive/return photo bibs.	-	-	-												
Locker Area	1.5	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.												
Lounge/Catering Preparation	180	1	180	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-	-												
Toilets	1.5	10	15	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided												

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Press Conference Room	230	1	230	340	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams .	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I			F			I	I		R	IOC	
Seating Area	180	1	180	-	An area for accredited press.	-	Seats and standing room.	-												
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3 .6 m table, 8 chairs & step and repeat backdrop.	-												
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-												
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-												
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-				F			I	I				
Mixed Zone	200	1	200	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I		I	F			I	I		R	IOC,IF	
Press Tribune	-	-	-	-	A section of the standing in the Mixed Zone area (outdoor venues) and of the seating (indoor venues) dedicated to accredited journalists and photographers.	-	For outdoor venues telephones, television monitors, power and other press facilities are existing in the VMC.	-												
Standing Area in the Mixed Zone	Varies	Varies	Varies	-	An area for accredited press.	For outdoor venues, located near finish area or outrun of course area.	An open, corralled area.	Exceptions may exist at various venues.			I	F			I	I		R	IOC,IF	
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided												
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-												
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	Located along FOP.	60 cm wide x 90 cm deep per position, multi-row areas require 60 cm riser per row.	Power, Wireless and data cabling needed to photo positions on FOP.	J		I	J			I	J		R	IOC, IF	
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Normal seating areas.	-	Seating areas are generally not applicable for outdoor venues.	I		I	F			I	I		G	IOC	
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-												

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Security																				
Security Command Centre	120	1	120	145	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.												
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-												
Security Work Space	15	1	15	-	An area for additional security agencies.	-	-	-												
CCTV Surveillance & Video Desk	15	1	15	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-												
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.												
Radio Dispatch & Monitoring	15	1	15	-	An area for the monitoring and control of security communication and the distribution/return of security radios.	-	-	-												
Work Room	50	1	50	-	Open plan of work stations designated for security personnel.	-	-	-												
Secure Storage	10	1	10	-	An area for Security equipment storage.	-	Enclosed, secure space.	-												
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-												
Briefing and Break Area / Staging Area	140	1	140	170	Area for briefing workforce before and after shifts.	-	Enclosed space.	Assumes tent.												
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.												
Vehicle Screening & Sanitisation Area	569	1	569	800	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.												
Vehicle Queue	175	1	175	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-												
Oversized Vehicle Queue	140		140	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-												
Vehicle Sanitisation & Wanding Areas	150		75	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.												
Oversized Vehicle (Truck & Bus) Sanitisation	70		70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-												
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.												
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Enclosed space for staging and break.	-												
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the venue secure perimeter and/or venue screening area for constituents.	-	Dependent upon spectator capacity and venue design.												
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-												
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-												
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-												
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.												

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Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the venue secure perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.										G	P	
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the venue secure perimeter.	Enclosed space for screening/search area positions. Net area for each screening position will accommodate the following: 4 Wanding Stations, OR - 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue. Dependent upon spectator capacity and venue design.												
Athlete / Team	18	1-2	18-36	36-72	-	BOH.	-	-	I			F								P
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with Athlete and/or Olympic Family.	I			F								P
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with TO, ENG and/or Press.	I		I	F								P
Broadcast	18	1-2	18-36	45-90	-	BOH.	-	If possible, direct access from outside venue perimeter into Broadcast Compound.				F		I					R	IOC
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	BOH; located in close proximity to Venue Broadcast Compound.	-	-												
Press and Photographer	18	1-2	18-36	36-72	-	BOH; located in close proximity to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast).	If possible, direct access from outside venue perimeter into Venue Media Centre.					F						R	IOC
Workforce (Staff/Volunteer/Contractor/Vendor)	18	2-3	36-54	90-135	-	BOH or possibly FOH.	-	-					F						G	IOC
Spectator / Sponsors	18	Varies	Varies	54	-	FOH.	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-					F							P
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.												
Exception Gate	Varies	Varies	Varies	-	Access gate for designated accredited personnel.	FOH; located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.												
X-ray of bags	36	Varies	Varies	72 (each)	Device for screening bags/equipment coming into the venue.	FOH and BOH.	Covered.	-				I		F				G	P	
Venue Perimeter Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	Dependent upon spectator capacity and venue design.					F		I					P
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	1m to 3m width, sometimes used as a secondary service vehicle exit point.	-												
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m each, number varies per concourse design.	-												
Workforce (Staff/Volunteer/Contractor/Vendor)	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	Size dependant upon total workforce numbers.												
Sponsor Services																				
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.				I		F						P

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Sport Operations																			
Competition Management	50	1	50	65	A work area for sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located in Back of House, in close proximity to athlete area and FOP; may be co-located within the Venue Operations Centre (VOC).	Enclosed space.		I			F						P	
Competition Manager & Assistant Manager Desks	15	1	15	-	An area for the manager and assistant(s) manager.	-	-	-											
Assigned Work Space	10	1	10	-	Open plan of work stations designated for Sport personnel.	-	-	-											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Space	15	1	15	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-											
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-											
Sport Information	13	1	13	20	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located adjacent to athlete area.	Enclosed space with waiting area and seating.	Includes: information boards, pigeon holes, Info & Help Desk, work area, info terminal stations & storage.	J			J						R	IF
Results Posting Area	3	1	3	-	An area for posting race results.	Located adjacent to athlete area.	Area only.	-											
Athlete Lounge	140	1	140	180	An area where athletes, coaches, and service personnel can relax at the venue while not training or competing.	Located in athlete area.	Enclosed space.	Includes: seating area, lounge, Info & Help Desk, info terminal stations.	J			J						R	IF
Athlete Wax Cabins / Change-rooms	67	Varies	Varies	120 (each)	Change-room facilities to accommodate athletes at the venue during competition and training; additionally, a separate area used by the service personnel and coaches for working on equipment and waxing skis.	Located in athlete area, adjacent to FOP.	Enclosed space; large compound like area for containers and/or trailers. Level surface area for placement of containers and/or trailers. with easy access for vehicles. Measurement for each cabin is 67m ² . Separate male and female facilities required.	Number of cabins will vary according to final team/athlete numbers. Gross area may vary according to placement of containers; Gross area should include the area required for snow removal equipment/vehicles. Assumes cabins/container units.	J			J						G	IF
Chief of Course Office	15	1	15	20	An office area for chief of course.	Located in the Back of House, in close proximity to FOP.	Enclosed space.	Assumes permanent or temporary structure.											
Final Waxing Canopy	10	1	10	15	An area utilised by ski technicians for final ski preparations e.g. applying a final coat of wax on competition skis.	Located in the Back of House, near course start.	Area only with cover.	Assumes temporary structure.											
Ski Wax Testing/Warm-up Area	100	1	100	150	An area where athletes and/or equipment managers can test to ensure the correct wax has been applied to skis.	Located near FOP.	Area only. Specifications regarding size, gradient, etc. are defined in FIS regulations.	-											
Ski Manufacturer Cabin	35	1	35	60	An area where manufactures provide services to athletes.	Located in the Back of House, in close proximity to Athlete areas.	Enclosed space; an area for placement of containers and/or trailers.	Assume cabins/container units.	J			J						G	IF
Ski Marking Area	20	1	20	25	An area used by race officials to mark competition skis.	Located in the Back of House, between athlete cabins and FOP.	Area only with cover.	Assumes temporary structure.											
Ski Technicians Area	20	1	20	25	An area used by ski technicians as a work area and lounge.	Located in Back of House, adjacent to technical equipment storage.	Enclosed space.	Assumes permanent or temporary structure.											
IF & Sport Meeting Room	100	1	100	150	Meeting facility at the venue for team captains and other sport related meeting needs.	Located in the competition management area.	-	Assumes container units or existing space.	J			J						R	IF
FOP Equipment Storage Area	30	1	30	40	Storage of equipment required for utilised by sport in running competition.	Located in Back of House, adjacent to Field of Play or within close proximity.	Securable storage area for equipment (e.g. gates, rakes, shovels).	-	I			F	I					R	IF
Field of Play (FOP)	-	-	-	-	Area where competition is conducted for Cross Country and Nordic Combined events.	-	Reference should be made to FIS guidelines for all FOP technical specifications.	-											
FOP Surface Dimensions or Area	-	-	-	-	Competition courses in various distances for free and classic technique races	-	Start, course, finish areas. See FIS International Competition Rules (ICR) for all technical specifications.	Various total competition distances respectively course lengths defined in ICR 311.1, and/but depend on terrain available	F			I						R	IF
Surface	-	-	-	-	Snow.	-	Snow, snow making facilities/equipment is obligatory.	See FIS International Competition Rules (ICR) for all technical specifications.	J			J	I					R	IF
Orientation	-	-	-	-	-	-	See FIS International Competition Rules (ICR) for all technical specifications.	-	J			J	I					R	IF
Sports Lighting - Technical	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

CROSS COUNTRY SKIING / NORDIC COMBINED

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	-	-	-											
Warm-up Surface Dimensions or Area	-	-	-	-	Warm-up tracks required for classical and free technique	1. Located midway down the FOP; Judges Tower area.	-	-	J			J			I	J		R	IF
Surface	-	-	-	-	-	-	Snow, snow making facilities/equipment is obligatory.	Should have similar orientation to competition tracks (snow structure)	J			J	I			J		R	IF
Orientation	-	-	-	-	-	-	-	-	I			F	I					R	IF
Camera Positions	-	-	-	-	-	-	-	FIS Input required for all camera positions due to safety reasons.	J			J			I			P	IF
IF / Team	10	1	10	-	-	Located in FOP position.	Pole-mounted or tripod-mounted cameras.	-											
Biomechanics	10	1	10	-	-	Located in FOP position.	Pole-mounted or tripod-mounted cameras.	-											
Athlete / Team Seating	-	-	-	-	A designated seating area for athletes.	-	-	-	J		I	J				J			
Same Sport	-	Varies	-	-	-	-	-	-	J		I	J				I		R	IOC,IF
Different Sport	-	Varies	-	-	-	-	-	-	I		I	F				I		R	IOC
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	May be required for Sport workforce use. Quantity varies according to athlete numbers.					F					P	
Showers - Athlete Area	1.5	Varies	Varies	5 (each)	Shower/washing units designated for athletes.	-	-	Assumes container units.					F					P	
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	Required if FOP is not located near athlete area.	Assumes temporary units. Quantity varies according to athlete numbers.					F					P	
International Federation																			
IF Area	90	1	90	135	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located in the Back of House, within the competition management area and in close proximity to athlete areas.	Enclosed space.	Assumes container units or existing space.	I		I	F						R	IF
IF President's Office	15	1	15	-	An office area for IF President.	-	Enclosed space.	Assumes container units or existing space.	I		I	F						R	IF
IF Secretary - General/Executive Director's Office	15	1	15	-	-	-	-	Assumes container units or existing space.	I			F						G	IF
Reception, Secretariat, Waiting & Work Space	40	1	40	-	-	-	-	-	I			F						G	IF
IF Meeting Room	-	-	-	-	-	-	See IF & Sport Meeting Room.	-											
Jury Room	15	2	30	40	This space is utilised for jury meetings during training and competition days and the resolution of protests and appeals after competition. A separate room is required for the Cross-Country and Nordic Combined juries.	Located in the Back of House, within the competition management area and in close proximity to athlete areas.	Enclosed space.	Assumes container units or existing space.	I			F						R	IF
Video Room	10	1	10	15	Area utilised by technical officials for video reviews of competition.	Located in Back of House, adjacent to Jury Room.	Enclosed space.	Assumes container units or existing space.											
Lounge - International Technical Officials	15	1	15	20	A rest area for officials.	In close proximity to FOP.	Enclosed space.	Assumes container units or existing space.	J			J						G	IF
Seeding / Draw Room	-	-	-	-	Area for meetings involving coaches and team officials.	IF & Sport Meeting Room.	See IF & Sport Meeting Room.	-											
Technical Information Centre	10	1	10	15	An area for distributing information to officials and competition management.	-	-	Recommend to combine with Sport Information area.											
Judges Tower	3 x 3	1	9	12	Platform/tower for judges to observe competition.	Located along FOP.	-	-	J			J				J		P	IF
Officials Locker Room, Shower, Toilet	20	1	20	25	Change-room for officials.	Located in Back of House, in close proximity to FOP.	-	Assumes container units or existing space. Separate men and women lockers may be necessary.	I			F						R	IF
Race Director/Technical Delegates Office/Work Space	15	1	15	20	Office area for Race Director, Technical Delegates.	In close proximity to IF President office area.	Enclosed space.	Assumes container units or existing space.	I		I	F				I		R	IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I		J	J				J		R	IOC,IF
Sport Presentation																			
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.											
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-				F						P	
Announcer Position	3	1	3	-	-	-	-	-				F						P	
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space, consisting of work area, green room, entertainer staging and dressing and prop storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.					F					P	

CROSS COUNTRY SKIING / NORDIC COMBINED

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Technology Operations																			
Technology Help Desk	20	1	20	24	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support workforce & manager.	The Help Desk and LAN Management may share a common space if necessary (e.g. when rooms or space are limited).					F					P	
Venue Technology Operations (VTO)	35	1	35	40	OCOG Technology Operations area. Operational work space for entire Venue Technology team, .	Adjacent to or within Venue Operations Centre (VOC).	Medium Security - lockable room. Air-conditioned office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	No specific spaces for partners and contractors. Time and Scoring partner (e.g. OMEGA) will use the OVR room. When not in direct operation, partner technicians can stand-by in the Technicians Intervention room.					F				G	P	
Technicians Intervention Room	35	1	35	40	A stand-by area for partner technicians when not in direct operation.	Located in close proximity to the VTO.	Enclosed space. Table and chairs. Shared area, separate desks not necessary.	-					F				G	P	
Radio Distribution Room (RDR)	30	1	30	18	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E and workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).		I		F						P	
Information Technology																			
Computer Equipment Room (CER)	15	1	15	25	Area for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room.	High Security - lockable room. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	The TER and CER may share a common space if necessary (e.g. when rooms or space are limited). Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.		I		F					G	P	
Data Local Area Network (LAN) Management Room & Store	30	1	30	35	LAN monitoring room & associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational workforce & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces. The Help Desk and LAN Management may share a common space if necessary (e.g. when rooms or space are limited).					F				G	P	

CROSS COUNTRY SKIING / NORDIC COMBINED

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Telecommunication & Audio Visual																			
Telecomm. Equipment Room (TER) Primary	45	1	45	50	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room.	High Security - lockable room. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	The TER and CER may share a common space if necessary (e.g. when rooms or space are limited). Raised flooring is preferable for cabling distribution, but not essential.		I		F						P	
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER.	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.		I		F						P	
Audio Control Positions	-	-	-	-	-	-	-	-				F					G	P	
Venue	4	1	4	8	Area for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Presentation. Can be on FOP, in stands or in a booth with view to FOP.	High Security-lockable room. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1 000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	-											
Press Conference	4	1	4	8	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), HVAC, weatherproof. Work space & FF&E for operator.	-											
Athletes Briefing	2	1	2	4	PA systems required for to facilitate announcements to athletes. Space required for amplifier/microphone.	Within briefing room/area for athletes.	Standard/mains power & FF&E.	-											
International Federation Area	2	1	2	4	PA systems required for Federation Area . Space required for amplifier/microphone.	Location as required by Sport/International Federation.	Standard/mains power & FF&E.	-											
Warm-Up Area	2	1	2	4	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Located in athlete warm-up area.	Standard/mains power & FF&E.	-											
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-											
Workforce Break/Dining	2	Varies	Varies	-	Area within break/dining area where audio control equipment is installed to facilitate meetings/training of large numbers of workforce.	Workforce break/dining areas.	Standard/mains power & FF&E.	-											
Video Board Control	10	1	10	12	Area of video control for video board or video projection system. Operations integral with those of Sport Presentation.	Located within Sport Presentation area. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	-				F					G	P	
Wired Communications Control	5	1	5	8	Area of wired communications master control station and support technician. System essential to operations of both Sport Presentation and Results/FOP management.	Located near or within Sport Presentation is recommended. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location is located outdoors. Good cable access to FOP, OVR Room, Sport Presentation, Broadcast Graphics Room & Results Printing required.	-				F					G	P	

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Timing, Scoring and Results Operations																				
Timing and Scoring Position	-	-	-	-	Area(s) for event timing & scoring personnel & equipment during competition.	Located adjacent and/or close to FOP.	High Security Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards, speed guns & OVR room. Space & FF&E for operators and equipment.	Where timing and scoring take place outdoors, adequate weather (rain/sun/snow) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, OMEGA	
Start Area	1	1	1	2	Position where clock is started for event.	Located with sport at race start position.	Cable access to OVR room between all intermediate timing points, aligner hut & start position.	-												
Control Room	30	1	30	35	Area for central Timing & Scoring control operations, including Backup C system, Event Management & photo-finish system.	Located near finish area with view to FOP.	Cable access to OVR Room, Photo Finish Control & Intermediate Positions along course.	-												
Finish Area	1	1	1	2	-	-	-	-												
On Venue Results (OVR)	-	-	-	-	Area is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	-	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Adequate space and FF&E for high density of computer workstations, racks for servers and working space for technicians, operators, and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or where two sports occur concurrently will require more space for additional OVR equipment.	I	F								P	IF, OMEGA	
OVR Provider Work Space	25	1	25	30	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO, CIS, PRD, etc.).	Ideally adjacent to IT provider work area.	-	-												
IT Provider Work Space	20	1	20	25	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-												
Scoreboard Control	-	-	-	-	Area for scoreboard control operations. Operations integral with those of Sport Presentation, data provided from OVR System. Space for both Control and Interface workstations & 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Adequate space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.	I			F						G	P	IF, OMEGA
Scoreboard Control	10	1	10	12	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator & workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-												
Scoreboard Interface	4	1	4	6	Area for interface equipment (PC workstations) linking OVR system & Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-												

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Results Printing (PRD)	Varies	1	Varies	-	Area for hard copy results production & distribution. Location of high intensity work involving many workforce preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area, room for Print Distribution Workstation (IDS interface) equipment and operator.	Located adjacent or in close proximity to Press Workroom. Easy access to Press Tribunes, Broadcast Commentary positions, Sport Information, Doping and Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specifications. Adequate space for interface equipment and graphics operators and good cable access to OVR room. Adequate space for staff and FF&E required for operational staff as well as 1 pallet of paper to support print/copy operations.		I	I	I	F					I	R	IF
TV Graphics Interface	6	1	6	9	Area where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operations and good cable access to OVR room.					I		F			G	P	
Technology Storage																			
Technology General Storage	60	1	60	75	Area for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F					G	P	
Timing and Scoring Storage & Workshop	20-30	1	20-30	25-35	In venue storage & workshop for timing equipment, spare parts & small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.		I		F						G	P	
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required to distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closets.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Workroom.	High Security - lockable and weatherproof. May require fan or dedicated A/C depending on room location and/or configuration. Fully redundant power (mains and generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.	I		F							P	
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of power from data/voice and audio-visual cabling.	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in a manner which allows for easy access and repair/replacement. Legacy installations should be installed as permanent while temporary (overlay) should be installed using methods which are easily installed and removed minimising potential damage to the existing structure or venue.				F						P	
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.														
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.														
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.														

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CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	-											
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	-											
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-											
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-											
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-											
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-											
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-											
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing and Scoring/OVR contractor.	I			F							P
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.											
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F							P
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the video board. Required for outdoor venues where the video boards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each video board.											
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Presentation on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F					G		P
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to/from audio/PA amplification system and/or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend PA speakers from venue ceiling structure.	-	-	-											
Mobile Phone Infrastructure (antenna)	15	1	15	25	Infrastructure required to support installation of additional radio antenna & mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to/from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.	I			F					G		P

CROSS COUNTRY SKIING / NORDIC COMBINED

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision, F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Ticketing																			
Ticket Box Office	40	1	40	100	An area at the venue where Olympic tickets are sold.	Located in Front of House, adjacent to the secure perimeter; near the spectator entry point of the venue.	Gross area includes internal & external queue.	Assumes container unit with disabled access to internal and external service window. Dependant upon venue layout and footprint, spectator access point locations.										P	
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	15	1	15	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s) & Will Call	15	1	15	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	25	1	25	50	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.											P
Driver Staging	80	1	80	150	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.											P
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside venue secure perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	20	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-											P
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from Host City, based on vehicle/bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J			J						I	P
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J			J						I	P
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				I	F						P
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.					F					I	G IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.					F						G IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.	I			F							G IOC
Spectator and Workforce Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.					F						P
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				I	F						P
Accessible	-	-	-	-	-	-	-	Part of Spectator total.					F						P
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Area only. Surface areas paved or gravel/hard pack surface.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have drop-off in close proximity to accredited entry point and then driver will park.				I	F						P
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.					F					I	P
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.					F						P
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-				J	J						P
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes vehicle circulation.					F					I	P
Emergency Services	-	-	-	50 (each)	-	Generally located inside the secure venue perimeter.	-	Includes vehicle circulation.					F					I	P
Vehicle Chain-up Area	-	-	-	700	Area that vehicles (cars, buses, etc.) use to install chains onto vehicle tires.	Located along venue access road.	-	Required only for mountain venues in which the access road has slope exceeding an 8% grade on gravel surface or 10% grade on paved road surface. May be dependent upon local legislation and/or requirements.					F					I	P

CROSS COUNTRY SKIING / NORDIC COMBINED

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Venue Development																			
Site Management Compound	503	1	503	650	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Gross area includes snow removal access. Dependent upon venue footprint, extent of temporary works and number of contractors.											
Site Management Area	60	1	60	-	-	-	Enclosed space.	Assumes container unit/trailer or tent.											
Site Manager & Assistant Site Manager(s) Work Space	12	1	12	-	Work and meeting area for the Site Manager and additional staff.	-	-	-											
Site Administration Desk & Work Space	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-	-											
Response Team & Vendor Staging	24	1	24	-	On-site permanent and temporary facilities for specialty workforce and general labor crew to be on-call.	-	-	-											
Secure Storage - Site Management	12	1	12	-	Area for storage.	-	-	-											
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.	-	Enclosed space. Area for office, staging and a secure storage area.	Assumes container unit/trailer or tent. Contractor usually installs container units at their own cost.											
Sign/Look Staging, Work Space/Secure Storage	50	1	50	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	-	Assumes container unit/trailer or tent.											
Material Warehouse/Construction Work Space	80	1	80	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	-	Enclosed space. Area for carpentry, painting and general construction. Storage for non-weather proof materials.	Assumes tent or canopy with 2 side walls.											
Vendor Secure Storage	60	1	60	-	Area for containers, usually provided by the various temporary construction sub-contractors.	-	Enclosed space.	Assumes container unit/trailer or tent or existing space.											
Materials Staging Area	50	1	50	-	Area for the off-loading and loading of bulk construction materials.	-	Area only.	-											
Exterior Storage Area	50	1	50	-	Outdoor storage of material and products.	-	Area only.	Weatherproof area for large and bulk materials.											
Vehicle Staging	90	1	90	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	-	Area only.	Service, Repair & Specialty vehicles.											
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.											P
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.	-											P
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.											P
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.											
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-	-											

CROSS COUNTRY SKIING / NORDIC COMBINED

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Venue Management																			
Venue Operations Centre (VOC)	60	1	60	90	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Dependent upon venue capacity and venue layout.					F					P	
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-											
Assigned Desks	20	1	20	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Space and Storage	18	1	18	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	40	1	40	50	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.					F					P	
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	24	1	24	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	-											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	150	1	150	180	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre or in close proximity to VOC.	Enclosed space.	Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.					F					P	
Snow Removal Compound	-	-	-	-	A service area where the snow removal contractor operates at the venue and performs the snow removal.	Located in the BOH area; adjacent to or within the Logistics or Waste Management compounds.	-	-											
Equipment Storage	15	1	15	-	Area for storage of snow removal equipment.	-	May require covered and enclosure.	-											
Truck & Equipment Staging	50	Varies	Varies	-	Area for staging of snow removal vehicles and equipment	-	May require covered and enclosure.	Number required may vary according to layout and/or size of venue.											
Supply Storage Area	50	Varies	Varies	-	Area for storage of supplies that may be required for snow removal (i.e. salt).	-	May require covered and enclosure.	Number required may vary according to layout and/or size of venue.											
Snow Storage / Removal Area	-	-	-	200-2000	An area or location where snow can be stored after it is removed from operational areas of the venue.	Located outside of operational areas of the venue.	Area only for dumping of snow removed areas of the venue. May require multiple locations that may exist off venue or outside the venue perimeter.	Area requirements will be based on size of venue. Snow removal may require hauling/transport to off venue location.											
Workforce																			
Workforce Area	150	1	150	180	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.					F					P	
Check-In Area	96	1	96	-	Area to log-in venue workforce and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Space	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	335	1	335	400	The space where workforce meals are served and where workforce can break during shifts.	A location that will provide easy access to all venue workforce for breaks and meals; will vary according to venue layout/distances.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon venue workforce numbers.					F					P	
END OF DOCUMENT																			

CURLING

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation				
Accreditation																						
Venue Accreditation Office	40	1	40	100	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space. Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.										P				
Day Pass Issue & Problem Resolution Desk	10	1	10	-																		
Work Space	12	1	12	-																		
Manager Desk or Office & Storage	12	1	12	-																		
Waiting Area	6	1	6	-																		
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	Located in the Back of House area, on the perimeter of an accredited area and/or entry.	May be required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.					F					P				
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.					F									
Broadcast																						
Broadcast Compound	-	1	-	3500	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, normally in the Back of House area, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements.										R	IOC			
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.					I		F		G	IOC				
Broadcast Manager Office	12	1	12	-	-	-	-	-														
Work Room, Assigned & Unassigned Desks	48	1	48	-	-	-	-	-														
Technical Operations centre	40	1	40	100	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.					I		F		R	IOC				
Broadcast Catering	140	1	140	180	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	-														
Kitchen & Prep	20	1	20	-	-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.														
Buffet Line & Dining	120	1	120	-	-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.														
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements.														
Work Space(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.														
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-														
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters.														
Work Space(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.														
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-														
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.														
Toilets	1.5	8	12	36	-	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.														
Commentator Control Room (CCR)	10	1	10	15	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in Back of House area, in close proximity to commentator position area.	Enclosed space with incoming television cable.	Assumes existing space or container unit.					I		F		R	IOC				
Broadcast Information Office (BIO)	20	1	20	25	Space for broadcast management and team meetings.	Back of House area; located near commentator positions and CCR.	Enclosed space.	Assumes existing space or container unit.					J		J		R	IOC				
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-					J		J		G	IOC				
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J		I	J		J			R	IOC				
Mixed Zone	25	1	25	90	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Located in the Back of House, adjacent to the FOP.	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I		I	J		J			R	IOC, IF				
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in seating areas with view to FOP and covered when possible.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Commentator positions at outdoor venues are normally located in temporary cabin/container/trailer units.									R	IOC				

CURLING

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation		
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	-	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	-			I	J			J						
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions	1 position = uses 1 seat in existing seating bowls.	-			I	J			J			R	IOC		
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval.	J		I	J			J			R	IOC		
Camera Position - Other	4	35	140	315	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	-	I		I	J			J			R	IOC		
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-							J	I		J	G	IOC	
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	See also Technology requirements.							J	I		J		G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in Back of House areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.							J	I		J		G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography, in conjunction with OBS and IFs.	J			J	I		J	I			R	IOC	
Catering																					
Catering Compound	565	1	565	1020	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity.												P	
Work Spaces - Catering Management	28	1	28	-	Operational work space(s).	Located in Back of House area.	Enclosed space.	Gross area includes snow removal access.							I		F				
Organising Committee Catering Manager	-	-	-	-	-	Located in Venue Operations Centre.	See Venue Management - VOC.	Assumes existing space or container.													
Catering Contractor	16	1	16	-	-	-	-	-													
Beverage Contractor	12	1	12	-	-	-	-	-													
Dry, Cold and Ice Storage	38	6	228	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.													
Vehicle Staging	90	1	90	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-													
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-													
Kitchen and Preparation Area	80	1	80	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.													
Uncovered Storage	75	1	75	-	Outdoor storage of material and products.	-	Area only.	-													
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilets should be provided.													
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit.	-													
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in the Front of House, in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container's). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity and level of catering activity.												P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	Located in the Front House area, adjacent to spectator points of sale.	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.													
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	Located in the Front House area, adjacent to spectator points of sale.	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.													
Outlets' Look	-	-	-	-	-	-	See Look for details.	-												P	

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Principles of Stakeholder Involvement:
I-Input, J-Joint Decision, F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Ceremonies																				
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-											P	
Ceremonies Staging	36	1	36	45	Area to coordinate ceremonies; e.g. podium, procession, recession route and flags. .	Adjacent to or close to FOP.	Consists of coordinator work space with area for anthem storage, secure storage, preparation and dressing area; see below for additional details.	Assumes existing space or container.											P	
Manager Desk	6	1	6	-	Workspace for Manager.	-	-	-												
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenters, Medal/Flower staging, Secure medal and flag storage	22	1	22	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format. Medals storage is not required for those venues where the medal ceremony will take place at another location.												
Presenter Preparation and Dressing	4	2	8	-	A dressing and preparation area for Presenters.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-												
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	Close to FOP.	Limited use, may be shared with other space. See Sport Presentation.	-											P	
Awards Podium Storage	12	1	12	15	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	-											P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.										G R	IOC	
Cleaning and Waste																				
Cleaning & Waste Compound	175	1	175	325	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependent upon venue capacity. Gross area includes snow removal access.											P	
Vehicle Staging	50	1	50	-	Parking area for collection vehicles which generally remain inside the venue.	-	Area only.	-												
Sorting Area	50	1	50	-	Area for sorting waste.	-	Area only.	-												
Waste & Recycle Containers	15	3	45	-	-	-	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).												
Compactor Unit	25	Varies	Varies	-	Area in front of waste and recycle bins where material is separated for containment.	-	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.												
Equipment Supply & Storage	15	1	15	-	Space for cleaning equipment and paper product.	-	Enclosed space.	Assumes container unit.												
Contractor Office	15	1	15	-	Space for management and workforce staging.	-	Enclosed space.	-												
Doping Control																				
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	An Office and storage area will be incorporated into the existing spaces (e.g. waiting area/reception).											R	IOC
Waiting Area/Reception	16	1	16	20	Area where athletes check-in and wait prior to testing.	-	-	-												
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer. Wash basin for hand sanitisation.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-											R	IOC

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Principles of Stakeholder Involvement:
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Space <small>Sub-space(s)</small>	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.					F					P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of workforce pre-shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.					F					P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.					F					P	
Information Desk	-	-	-	-	-	-	-	-											
Lost and Found	-	-	-	-	A holding area for items found in the venue.	-	-	-											
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spectators.	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	-	-	Will depend on level of service at venue.					F					P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes; located between screening/search area and spectator plaza.	Total number generally 50% of security screening positions.					F					P	
Stroller Storage	Varies	Varies	Varies	72 (each)	72 (each)	In close proximity to seating area.	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.					F					P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.					F					P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators					F					P	
Spectator Shade and Shelter	Varies	Varies	Varies	72 (each)	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and spectator service amenities.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.					F					P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-					F					P	
Spectator Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators.	Located in FOH, close proximity to seating and spectator amenities.	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.					F					P	
Hand Wash Stations	1	Varies	Varies	6 (per 20 toilets)	A chemical unit used in the absence of potable water	Located in FOH, close proximity to seating and spectator amenities.	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.					F					P	

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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Finance																			
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I		F						P	
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Located in Front of House, both inside venue perimeter and outside venue perimeter.	Area only.	Quantity dependent upon venue capacity.		I		F						P	
Language Services																			
Work Space / Desk	20	1	20	25	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre (VOC).	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-		J	J			I				G	IOC
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference ne-	-		J	J			I				G	IOC
Logistics																			
Logistics Compound	-	1	-	780	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access.					F					P	
Logistics Centre	60	1	60	-	-	-	Enclosed space.	Assumes container units or tent.											
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-											
Team Staging/Work Space	33	1	33	-	Space for staging and a work area.	-	-	-											
Secure Storage & Equipment Sign-out	15	1	15	-	Area for storage.	-	Storage for tools.	-											
Warehouse Storage	90	1	90	-	Storage area for furniture, fixtures, and equipment (F	-	Enclosed space.	Assumes tent											
Storage Yard	75	1	75	-	Outside storage area within compound.	-	Area only.	-											
Vehicle Staging	100	1	100	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-											
Fuel Tank(s)	9	Varies	Varies	25 (each)	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.											
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.											
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.											
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.											
Material Transfer Area (MTA)	-	1	-	575	Generally for deliveries to the venue that may take place after hours or not within the logistics delivery window period.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.					F					P	
X-Ray Area	36	1	36	72	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.											

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Space <small>(Sub-space(s))</small>	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation		
Look of the Games																				
Work Space and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.										P		
Protocol Flags	-	5 to 6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	At Competition Venues flags to be included in the following order: Olympic flag, relevant International Federation flag, OCOG flag, Host Country flag (followed by European Union flag, if applicable). At Olympic Stadium (& Olympic Villages) flags to be included in the following order: Olympic Flag, UN flag, OCOG flag, Greek flag, NOCs flags, and Host Country Flag (followed by European Union flag, if applicable). For more specific detail, please reference the Technical Manual on Protocol.	J	J	J						R	IOC		
National Olympic Committee (NOC) Flags	Varies	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole)). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events) and competition format.	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.			J	J					J	R	IOC	
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and Back of House locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J					J	G	R,P	IOC, IF
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals.	-												
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH) and in Press Conference room.	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.		I	J	J					J	G	R	IOC, L
Backdrop - Press Conference Room	2.2 x 6	1	2.2 x 6	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F			I	I				
Outlets' Look	-	-	-	-	Look required for concessionaire units.	Located in FOH.	Venue catering and merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-					I	F					P	
Medical Services																				
Athlete Medical	50	1	50	75	An area where Medical provides services to athletes competing at the venue.	Located in Back of House within the accredited athlete area.	Enclosed space.	Assumes container or existing space.	J	J	J							R	IF	
Reception & Waiting	10	1	10	-	Area where athletes check-in and wait prior to examination.	-	-	-												
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-												
Examination Area(s)	8	2	16	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-												
Physiotherapy Area(s)	8	1	8	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-												
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J							S	IF	
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.												
Spectator Medical	40	1	40	80	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed space. 1 per 20,000 spectators.	Assumes container unit or existing space.			I	F	I					P		
Reception & Waiting	10	1	10	-	Area where spectators check-in and wait prior to examination.	-	-	-												
Medical Work Space & Secure Storage	12	1	12	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-												
Examination Area(s)	8	2	16	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-												
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Triage Station	9	1	9	18	Additional space to treat minor medical needs of spectators.	Located in the Front of House.	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.			I	F	I					P		

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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only. For Winter Games, the ambulances may need heated shelters or access to electrical outlets for block heaters and protection from snow and ice.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.										P
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Area only. Paved, graveled or grass area with fence, barricade or rope enclosure.	-										P
Merchandise																		
Office, Cash Room & Work Space	12	1	12	15	An area to manage the retailing of all Olympic merchandise inside the venue.	-	Enclosed space with secure entry.	Assumes container unit or existing space.										P
Storage	15	2	30	35	-	-	-	Assumes storage containers or existing space.										P
Program Sales Stands/Booths	1	1	1	2	-	-	Area only.	Units provided by vendor. Quantity and location decided by vendor and OCOG.										P
Merchandise Points of Sale (POS) Outlets' Look	6	Varies	Varies	18 (each)	Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.	Gross area is per each P.O.S. and includes service area and queue.		I		F						P
Olympic Family Services	-	-	-	-	-	-	See Look for details.	-		I	J	J						G R IOC
Olympic Family Lounge	162	1	162	370	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes existing space or temporary set-up (tent).		I		I	F					G G IOC
Welcome Desk and Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-	-										
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.	-										
Workforce/Volunteer Room and Storage	9	1	9	-	On-call waiting area for Protocol workforce and equipment storage.	-	-	-										
Dining and Lounge	90	1	90	-	Area for dining and lounge.	-	-	-										
Preparation/Buffer set-up/Beverage Area	45	1	45	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Workforce/Volunteer, Athlete, Media)	-										
Toilets	20	1	20	40	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	4 female, 4 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided										
Protocol flags	-	-	-	-	-	-	See Look of the Games.	-			J	J						R IOC

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Principles of Stakeholder Involvement:
I-Input, J-Joint Decision, F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Press Operations																			
Venue Media Centre (VMC)	390	1	390	515	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Conference Room and Photo Positions.	Close proximity to Press Conference Room and Mixed Zone area.	Enclosed space for press and photographers.	Assumes tent.										R	IOC
Reception & Information Desk	20	1	20	-	Welcome desk at the entrance, for information distribution.	-	-	-											
Storage	10	1	10	-	Equipment storage.	-	-	-											
Press Manager Office	15	1	15	-	Operational work space.	-	-	-											
Photo Manager Office	15	1	15	-	Operational work space.	-	-	-											
IF Media Office	15	1	15	-	Operational work space.	-	-	-											
Olympic News Service (ONS) Work Room or Area	20	1	20	-	Operational work space.	-	Enclosed space.	-											
Info Stations	20	1	20	-	Computer stations and printers.	-	-	-											
Press Work Room or Area	120	1	120	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.											
Photo Work Room or Area	50	1	50	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.	-											
Photographers Check-in & Photo Bib Distribution	16	1	16	-	Area where photographers register and receive/return photo bibs.	-	-	-											
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.											
Lounge/Catering Preparation	90	1	90	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-	-											
Toilets	1.5	6	9	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided											
Press Conference Room	90	1	90	120	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I		F							R	IOC
Seating Area	60	1	60	-	An area for accredited press.	-	Seats and standing room.	-											
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3.6 m table, 8 chairs & step and repeat backdrop.	-											
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-											
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-											
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-				F		I	I				
Mixed Zone	40	1	40	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I	I	F							R	IOC,IF

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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Press Tribune	-	-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	-	Tabled seating is fitted out with telephones, television monitors, power and other press facilities (indoor venues). For outdoor venues, these services will exist in VMC.													
Press Tabletop Seating	Varies	Varies	Varies	-		Easy access from Venue Media Centre and direct access if possible to Mixed Zone.	<u>In an existing stadium or seating area:</u> 1 seat wide (folding chairs at 60 cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50 cm deep tabletop per position, each position = 2 stadium seats. <u>Temporary Stands:</u> 1 seat (folding chairs at 60 cm spacing) x 2 rows deep of proposed seating system (normally 15 0 cm-170 cm deep).	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.			I	F						R	IOC,IF	
Press Seating (non-tabled)	Varies	Varies	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.			I	F							R	IOC,IF
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided												
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-												
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	Located along FOP.	60 cm wide x 90 cm deep per position, multi-row areas require 60 cm riser per row.	Power, Wireless and data cabling needed to photo positions on FOP.	J		I	J							R	IOC, IF
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Normal seating areas.	-	Seating areas are generally not applicable for outdoor venues.	I		I	F							G	IOC
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-												

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Security																				
Security Command Centre	100	1	100	120	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.												
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-												
Security Work Space	15	1	15	-	An area for additional security agencies.	-	-	-												
CCTV Surveillance & Video Desk	12	1	12	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-												
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.												
Radio Dispatch & Monitoring	12	1	12	-	An area for the monitoring and control of security communication and the distribution/return of security radios.	-	-	-												
Work Room	40	1	40	-	Open plan of work stations designated for security personnel.	-	-	-												
Secure Storage	8	1	8	-	An area for Security equipment storage.	-	Enclosed, secure space.	-												
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-												
Briefing and Break Area / Staging Area	140	1	140	170	Area for briefing workforce before and after shifts.	-	Enclosed space.	Assumes tent.												
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.												
Vehicle Screening & Sanitisation Area	377	1	377	500	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.												
Vehicle Queue	100	1	100	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-												
Oversized Vehicle Queue	70	1	70	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-												
Vehicle Sanitisation & Wanding Areas	100	1	100	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.												
Oversized Vehicle (Truck & Bus) Sanitisation	70	-	70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-												
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.												
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Enclosed space for staging and break.	-												
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the venue secure perimeter and/or venue screening area for constituents.	-	Dependent upon spectator capacity and venue design.												
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-												
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-												
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-												
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.												

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Principles of Stakeholder
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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the venue secure perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.										G	P	
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the venue secure perimeter.	Enclosed space for screening/search area positions.. Net area for each screening position will accommodate the following: 4 Wanding Stations, OR - 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue. Dependent upon spectator capacity and venue design.												
Athlete / Team	18	1-2	18-36	36-72	-	BOH.	-	-	I			F								P
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with Athlete and/or Olympic Family.	I			F								P
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with TO, ENG and/or Press.	I		I	F								P
Broadcast	18	1-2	18-36	45-90	-	BOH.	-	If possible, direct access from outside venue perimeter into Broadcast Compound.				F		I					R	IOC
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	BOH; located in close proximity to Venue Broadcast Compound.	-	-												
Press and Photographer	18	1-2	18-36	36-72	-	BOH; located in close proximity to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast).	If possible, direct access from outside venue perimeter into Venue Media Centre.					F						R	IOC
Workforce (Staff/Volunteer/Contractor/Vendor)	18	2-3	36-54	90-135	-	BOH or possibly FOH.	-	-					F						G	IOC
Spectator / Sponsors	18	Varies	Varies	54	-	FOH.	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-					F							P
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.												
Exception Gate	Varies	Varies	Varies	-	Access gate for designated accredited personnel.	FOH; located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.												
X-ray of bags	36	Varies	Varies	72 (each)	Device for screening bags/equipment coming into the venue.	FOH and BOH.	Covered.	-				I		F				G	P	
Venue Perimeter Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	Dependent upon spectator capacity and venue design.					F		I					P
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	1m to 3m width, sometimes used as a secondary service vehicle exit point.	-												
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m each, number varies per concourse design.	-												
Workforce (Staff/Volunteer/Contractor/Vendor)	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	Size dependant upon total workforce numbers.												
Sponsor Services																				
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.				I		F						P

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Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Sport Operations																				
Competition Management	45	1	45	70	A work area for sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located in Back of House, in close proximity to athlete area and FOP; may be co-located within the Venue Operations Centre (VOC).	Enclosed space.		I				F					P		
Competition Manager & Asst. Manager Desks	12	1	12	-	An area for the manager and assistant(s) manager.	-	-	-												
Assigned Work Space	15	1	15	-	Open plan of work stations designated for Sport personnel.	-	-	-												
Hot Desks	6	1	6	-	Shared work stations.	-	-	-												
Work Space	12	1	12	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-												
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-												
Athlete Locker Rooms	Varies	Varies	Varies	Varies	Change-room facilities to accommodate athletes at the venue during competition and training.	Located in athlete area, adjacent to FOP; an easy access route to and from ice.	Enclosed space. Separate male and female facilities required.	Assumes either cabins/trailer units or existing locker facilities. (e.g. the use of existing hockey change rooms may be used and divided by temporary walls to accommodate the number of countries participating - 5 persons and 2-4 team officials per participating team or a minimum of 8 locker areas/change-rooms for male and females). Shower facilities may not be necessary.	J			J						R	IF	
Sport Information	10	1	10	15	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located in Athlete lounge or information may be posted near the athlete lockers / change-room areas (e.g. pigeon holes).	An area located in a corner of the athlete lounge. No requirement to be enclosed.	Includes: information boards, pigeon holes, Info & Help desk, work area, info terminal stations & storage.	J		J					J		R	IF	
Athlete Lounge	100	1	100	125	An area where athletes can relax at the venue while not training or competing.	Located in Athlete Area.	Enclosed space.	-	J		J					J		R	IF	
Ice Technicians Area	100	1	100	150	An area used by ice technicians as a work area.	Located in Back of House and close distance to the FOP; normally adjacent to the mechanical room; NOT in the same room as the refrigeration unit.	Enclosed space. Comfortable space due to long periods on venue.	Assumes permanent space. Equipment: Zamboni may require temporary relocation (if use of existing skating facility or Curling event) to another ice facility. This will provide additional space for Curling setup and/or equipment storage. An additional room near FOP may be used, if necessary.												
IF & Sport Meeting Room	30	1	30	45	Meeting facility at the venue for the International Federation and Competition Management.	Located in close proximity to the IF Area and Competition Management area.	Enclosed space.	Shared meeting room area between IF & Sport to serve various meeting needs; scheduling between IF and Sport may be necessary to serve all meeting demands throughout the day.	J		J							G	IF	
FOP Equipment Storage Area	80	1	80	120	Storage of equipment required for utilised by sport in running competition.	Located in Back of House, adjacent to Field of Play or within close proximity.	Securable storage area for equipment (e.g. gates, rakes, shovels).	In many cases, the zamboni room can be used for this purpose.	I		F	I						R	IF	
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	Reference should be made to WCF guidelines for all FOP technical specifications.	-												
FOP Surface Dimensions or Area	44.5 x 4.75	4	846-1057	-	-	-	Four (4) curling sheets have to be installed to WCF specification. Each playing surface is 44.5 meters (146 feet) long and about 4.75 meters (15 feet 7 inches) wide. The ice is set up to accommodate play in both directions, meaning the surface is symmetrical with a house at each end.	The four sheets of ice shall be identified using the letters: A, B, C, D. Sheet "A" shall be on the left, as viewed from the media bench. The media bench end shall be known as the "home end" for all sheets of ice. The background colour for all sheets of ice shall be white, with the exception of the Free Guard Zone which shall be light blue. The circles shall be coloured, from the outer ring inward: red, white, blue, white. Standard marking of lines shall be placed on the ice using black colour.	F		I							R	IF	
Total Required Dimensions or Area	30 x 60	1	1800	-	An ice rink or similar type area	-	Normally, the size of an ice hockey rink.	-	F		I							R	IF	
Surface	-	-	-	-	-	-	Ice surface that is flat and level.	-	J		J	I							R	IF
Orientation	-	-	-	-	-	-	Free from outside sunlight.	-	J		J	I		I					R	IF
Coaches Tribune (Seating)	-	-	-	-	Area where coaches view the competition.	Located at the end of the ice sheet, a direct view to the ice sheets / field of play.	Seating / tribune area. Seating height should not be less than 1.5 metres. 3 seats allowed per team for a total of 24 seats.	-												
Sports Lighting - Technical	-	-	-	-	-	-	See Broadcast for lighting specifications.	-												

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Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	Located near FOP, in locker room space or outside area adjacent to locker rooms.	-	Many teams will warm-up by running indoors or outdoors, where space permits.										
Warm-up Surface Dimensions or Area Surface	80	1	80	-	-	In close proximity to FOP.	A carpeted area where athletes can prepare and/or warm-up prior to the teams competition start time (e.g. use exercise bikes).	-	J		J							R IF
Camera Positions	-	-	-	-	-	-	Carpeted or padded surface or track material.	-	J		J	I						R IF
IF / Team	10	1	10	-	-	Located in FOP position.	Pole-mounted or tripod-mounted cameras.	-	J		J							P IF
Biomechanics	10	1	10	-	-	Located in FOP position.	Pole-mounted or tripod-mounted cameras.	-										
Athlete / Team Seating	-	-	-	-	A designated seating area for athletes.	Located in section of spectator stands.	-	-	J		I	J						
Same Sport	-	Varies	-	-	-	-	-	-	J		I	J						R IOC,IF
Different Sport	-	Varies	-	-	-	-	-	-	I		I	F						R IOC
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	May be required for Sport workforce use. Quantity varies according to athlete numbers.										P
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	Required if FOP is not located near athlete area.	Assumes temporary units. Quantity varies according to athlete numbers.										P
International Federation																		
IF Area	40	1	40	55	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located in the Back of House, in close proximity to Olympic Family seating area and athlete areas.	Enclosed space.	Assumes permanent or temporary structure. Separated from the OCOG Competition Management offices.	I		I	F						R IF
Technical Officials/Umpires Lounge & Meeting Area	50	1	50	65	A rest & meeting area for officials/umpires.	In close proximity to FOP.	Enclosed space.	Assumes permanent or temporary structure. Storage of umpires equipment is along FOP/ice sheet area.	I			F						R IF
Chief / Assistant Umpire Seating	-	2	-	-	Position used to overview FOP and work area during competition.	In close proximity to FOP on media tribune. Preferable not the same seating area as coaches.	Two seats on tribune.	Assumes permanent or temporary structure.	I			F						R IF
Ice Makers Seating	-	2	-	-	Position used to overview FOP and work area during competition.	In close proximity to FOP on media tribune. Preferable not the same seating area as coaches.	Two seats on tribune. Venue steering system computer located here.	Assumes permanent or temporary structure.	I			F						R IF
FOP Technical Volunteers	20	1	20	25	A meeting area and space to store personal items.	In close proximity to FOP.	Enclosed space.	-	I			F						R IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I		J	J						R IOC,IF
Sport Presentation																		
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.										
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-				F						P
Announcer Position	3	1	3	-	-	-	-	-				F						P
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space, consisting of work area, green room, entertainer staging and dressing and prop storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.										P

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Space <small>Sub-space(s)</small>	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Technology Operations																			
Technology Help Desk	20	1	20	24	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support workforce & manager.	The Help Desk and LAN Management may share a common space if necessary (e.g. when rooms or space are limited).					F					P	
Venue Technology Operations (VTO)	35	1	35	40	OCOG Technology Operations area. Operational work space for entire Venue Technology team, .	Adjacent to or within Venue Operations Centre (VOC).	Medium Security - lockable room. Air-conditioned office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	No specific spaces for partners and contractors. Time and Scoring partner (e.g. OMEGA) will use the OVR room. When not in direct operation, partner technicians can stand-by in the Technicians Intervention room.					F				G	P	
Technicians Intervention Room	35	1	35	40	A stand-by area for partner technicians when not in direct operation.	Located in close proximity to the VTO.	Enclosed space. Table and chairs. Shared area, separate desks not necessary.	-					F				G	P	
Radio Distribution Room (RDR)	30	1	30	18	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E and workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).		I		F						P	
Information Technology																			
Computer Equipment Room (CER)	15	1	15	25	Area for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room.	High Security - lockable room. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	The TER and CER may share a common space if necessary (e.g. when rooms or space are limited). Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.		I		F					G	P	
Data Local Area Network (LAN) Management Room & Store	30	1	30	35	LAN monitoring room & associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational workforce & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces. The Help Desk and LAN Management may share a common space if necessary (e.g. when rooms or space are limited).					F				G	P	

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Space <small>Sub-space(s)</small>	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Telecommunication & Audio Visual																			
Telecomm. Equipment Room (TER) Primary	45	1	45	50	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room.	High Security - lockable room. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	The TER and CER may share a common space if necessary (e.g. when rooms or space are limited). Raised flooring is preferable for cabling distribution, but not essential.		I		F						P	
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER.	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.		I		F						P	
Audio Control Positions	-	-	-	-	-	-	-	-				F					G	P	
Venue	4	1	4	8	Area for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Presentation. Can be on FOP, in stands or in a booth with view to FOP.	High Security-lockable room. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1 000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	-											
Press Conference	4	1	4	8	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), HVAC, weatherproof. Work space & FF&E for operator.	-											
Athletes Briefing	2	1	2	4	PA systems required for to facilitate announcements to athletes. Space required for amplifier/microphone.	Within briefing room/area for athletes.	Standard/mains power & FF&E.	-											
International Federation Area	2	1	2	4	PA systems required for Federation Area. Space required for amplifier/microphone.	Location as required by Sport/International Federation.	Standard/mains power & FF&E.	-											
Warm-Up Area	2	1	2	4	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Located in athlete warm-up area.	Standard/mains power & FF&E.	-											
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-											
Workforce Break/Dining	2	Varies	Varies	-	Area within break/dining area where audio control equipment is installed to facilitate meetings/training of large numbers of workforce.	Workforce break/dining areas.	Standard/mains power & FF&E.	-											
Video Board Control	10	1	10	12	Area of video control for video board or video projection system. Operations integral with those of Sport Presentation.	Located within Sport Presentation area. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	-				F					G	P	
Wired Communications Control	5	1	5	8	Area of wired communications master control station and support technician. System essential to operations of both Sport Presentation and Results/FOP management.	Located near or within Sport Presentation is recommended. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location is located outdoors. Good cable access to FOP, OVR Room, Sport Presentation, Broadcast Graphics Room & Results Printing required.	-				F					G	P	

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Principles of Stakeholder
I-Input, J-Joint Decision,
F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Timing, Scoring and Results Operations																			
Results Data Entry Position	-	-	-	-	Area for event results and/or statistics data entry during competition.	As noted below	High Security. Fully redundant power (mains & generator) with UPS to all results data entry equipment/workstations. Space & FF&E for all data entry personnel & results management staff.	Where data entry occurs outdoors, adequate weather (rain/sun/snow) protection for equipment/workstations to be provided.	I	I	I	F						R	IF
Field of Play - Statistics Tables	2	2	4	5	Areas/positions for statistics calling & data entry into OVR system.	Positions located at either end of FOP with sport statisticians.	Cable pathway to Technical Table.	May occur as a position on the FOP, or in a room with a view to the FOP.											
Field of Play - Technical Table	3	1	3	4	Area/position for results data entry.	Position located at Technical Table on FOP with sport results & sport officials.	Cable pathway to Statistics Tables, Official Table & OVR Room.	Generally occurs Back of House, in sport location.											
Timing and Scoring Position	-	-	-	-	Area(s) for event timing & scoring personnel & equipment during competition.	Located adjacent and/or close to FOP.	High Security Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards, speed guns & OVR room. Space & FF&E for operators and equipment.	Where timing and scoring take place outdoors, adequate weather (rain/sun/snow) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, OMEGA
Control Room	4 x 5	1	20	25	Area for central Timing & Scoring control operations, including Backup C system, Event Management & photo-finish system.	Located near finish area with view to FOP.	Cable access to OVR Room, Photo Finish Control & Intermediate Positions along course.	-											
On Venue Results (OVR)	-	-	-	-	Area is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	-	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Adequate space and FF&E for high density of computer workstations, racks for servers and working space for technicians, operators, and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or where two sports occur concurrently will require more space for additional OVR equipment.										P	IF, OMEGA
OVR Provider Work Space	60	1	60	65	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO, CIS, PRD, etc.).	Ideally adjacent to IT provider work area.	-	-											
IT Provider Work Space	20	1	20	25	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-											
Scoreboard Control	-	-	-	-	Area for scoreboard control operations. Operations integral with those of Sport Presentation, data provided from OVR System. Space for both Control and Interface workstations & 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Adequate space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.	I			F					G	P	IF, OMEGA
Scoreboard Control	10	1	10	12	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator & workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-											
Scoreboard Interface	4	1	4	6	Area for interface equipment (PC workstations) linking OVR system & Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-											

CURLING

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision, F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Results Printing (PRD)	Varies	1	Varies	-	Area for hard copy results production & distribution. Location of high intensity work involving many workforce preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area, room for Print Distribution Workstation (IDS interface) equipment and operator.	Located adjacent or in close proximity to Press Workroom. Easy access to Press Tribunes, Broadcast Commentary positions, Sport Information, Doping and Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specifications. Adequate space for interface equipment and graphics operators and good cable access to OVR room. Adequate space for staff and FF&E required for operational staff as well as 1 pallet of paper to support print/copy operations.		I	I	I	F					I	R	IF
TV Graphics Interface	6	1	6	9	Area where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operations and good cable access to OVR room.					I		F			G	P	
Technology Storage																			
Technology General Storage	60	1	60	75	Area for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F					G	P	
Timing and Scoring Storage & Workshop	20-30	1	20-30	25-35	In venue storage & workshop for timing equipment, spare parts & small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.		I		F						G	P	
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required to distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closets.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Workroom.	High Security - lockable and weatherproof. May require fan or dedicated A/C depending on room location and/or configuration. Fully redundant power (mains and generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.	I		F							P	
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of power from data/voice and audio-visual cabling.	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in a manner which allows for easy access and repair/replacement. Legacy installations should be installed as permanent while temporary (overlay) should be installed using methods which are easily installed and removed minimising potential damage to the existing structure or venue.				F						P	
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.														
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.														
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.														

CURLING

Principles of Stakeholder
I-Input, J-Joint Decision,
F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	-											
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	-											
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-											
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-											
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-											
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-											
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-											
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing and Scoring/OVR contractor.	I			F							P
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.											
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F							P
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the video board. Required for outdoor venues where the video boards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each video board.											
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Presentation on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F					G		P
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to/from audio/PA amplification system and/or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend PA speakers from venue ceiling structure.	-	-	-											
Mobile Phone Infrastructure (antenna)	15	1	15	25	Infrastructure required to support installation of additional radio antenna & mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to/from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.	I			F					G		P

CURLING

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Ticketing																			
Ticket Box Office	30	1	30	75	An area at the venue where Olympic tickets are sold.	Located in Front of House, adjacent to the secure perimeter; near the spectator entry point of the venue.	Gross area includes internal & external queue.	Assumes container unit with disabled access to internal and external service window. Dependant upon venue layout and footprint, spectator access point locations.										P	
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	10	1	10	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s) & Will Call	10	1	10	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	18	1	18	36	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.										P	
Driver Staging	55	1	55	100	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.										P	
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside venue secure perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	12	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-										P	
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from Host City, based on vehicle/bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J			J					I	P	
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J			J					I	P	
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				I	F					P	
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.					F				I	G	IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.					F					G	IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.	I			F						G	IOC
Spectator and Workforce Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.					F					P	
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.	I			F						P	
Accessible	-	-	-	-	-	-	-	Part of Spectator total.					F					P	
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Area only. Surface areas paved or gravel/hard pack surface.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have drop-off in close proximity to accredited entry point and then driver will park.				I	F					P	
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.					F				I	P	
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.					F					P	
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-				J	J					P	
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes vehicle circulation.					F				I	P	
Emergency Services	-	-	-	50 (each)	-	Generally located inside the secure venue perimeter.	-	Includes vehicle circulation.					F				I	P	
Vehicle Chain-up Area	-	-	-	700	Area that vehicles (cars, buses, etc.) use to install chains onto vehicle tires.	Located along venue access road.	-	Required only for mountain venues in which the access road has slope exceeding an 8% grade on gravel surface or 10% grade on paved road surface. May be dependent upon local legislation and/or requirements.					F				I	P	

CURLING

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Venue Development																			
Site Management Compound	348	1	348	520	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Gross area includes snow removal access. Dependent upon venue footprint, extent of temporary works and number of contractors.											
Site Management Area	45	1	45	-	-	-	Enclosed space.	Assumes container unit/trailer or tent.											
Site Manager & Assistant Site Manager(s) Work Space	12	1	12	-	Work and meeting area for the Site Manager and additional staff.	-	-	-											
Site Administration Desk & Work Space	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-	-											
Response Team & Vendor Staging	18	1	18	-	On-site permanent and temporary facilities for specialty workforce and general labor crew to be on-call.	-	-	-											
Secure Storage - Site Management	9	1	9	-	Area for storage.	-	-	-											
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.	-	Enclosed space. Area for office, staging and a secure storage area.	Assumes container unit/trailer or tent. Contractor usually installs container units at their own cost.											
Sign/Look Staging, Work Space/Secure Storage	35	1	35	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	-	Assumes container unit/trailer or tent.											
Material Warehouse/Construction Work Space	55	1	55	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	-	Enclosed space. Area for carpentry, painting and general construction. Storage for non-weather proof materials.	Assumes tent or canopy with 2 side walls.											
Vendor Secure Storage	30	1	30	-	Area for containers, usually provided by the various temporary construction sub-contractors.	-	Enclosed space.	Assumes container unit/trailer or tent or existing space.											
Materials Staging Area	30	1	30	-	Area for the off-loading and loading of bulk construction materials.	-	Area only.	-											
Exterior Storage Area	30	1	30	-	Outdoor storage of material and products.	-	Area only.	Weatherproof area for large and bulk materials.											
Vehicle Staging	60	1	60	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	-	Area only.	Service, Repair & Specialty vehicles.											
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.											P
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.	-											P
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.											P
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.											
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-	-											

CURLING

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Venue Management																			
Venue Operations Centre (VOC)	45	1	45	70	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Dependent upon venue capacity and venue layout.					F					P	
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-											
Assigned Desks	15	1	15	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	6	1	6	-	Shared work stations.	-	-	-											
Work Space and Storage	12	1	12	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	30	1	30	40	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.					F					P	
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	15	1	15	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	-											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	100	1	100	120	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre or in close proximity to VOC.	Enclosed space.	Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.					F					P	
Snow Removal Compound	-	-	-	-	A service area where the snow removal contractor operates at the venue and performs the snow removal.	Located in the BOH area; adjacent to or within the Logistics or Waste Management compounds.	-	-											
Equipment Storage	15	1	15	-	Area for storage of snow removal equipment.	-	May require covered and enclosure.	-											
Truck & Equipment Staging	50	Varies	Varies	-	Area for staging of snow removal vehicles and equipment	-	May require covered and enclosure.	Number required may vary according to layout and/or size of venue.											
Supply Storage Area	50	Varies	Varies	-	Area for storage of supplies that may be required for snow removal (i.e. salt).	-	May require covered and enclosure.	Number required may vary according to layout and/or size of venue.											
Snow Storage / Removal Area	-	-	-	200-2000	An area or location where snow can be stored after it is removed from operational areas of the venue.	Located outside of operational areas of the venue.	Area only for dumping of snow removed areas of the venue. May require multiple locations that may exist off venue or outside the venue perimeter.	Area requirements will be based on size of venue. Snow removal may require hauling/transport to off venue location.											
Workforce																			
Workforce Area	120	1	120	150	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.					F					P	
Check-In Area	76	1	76	-	Area to log-in venue workforce and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Space	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	175	1	175	210	The space where workforce meals are served and where workforce can break during shifts.	A location that will provide easy access to all venue workforce for breaks and meals; will vary according to venue layout/distances.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon venue workforce numbers.					F					P	
END OF DOCUMENT																			

FIGURE SKATING / SHORT TRACK

Principles of Stakeholder
Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation				
Accreditation																						
Venue Accreditation Office	50	1	50	125	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space. Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.										P				
Day Pass Issue & Problem Resolution Desk	15	1	15	-																		
Work Space	15	1	15	-																		
Manager Desk or Office & Storage	12	1	12	-																		
Waiting Area	8	1	8	-																		
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	Located in the Back of House area, on the perimeter of an accredited area and/or entry.	May be required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.					F					P				
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.						F								
Broadcast																						
Broadcast Compound	-	1	-	5000	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, normally in the Back of House area, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements. Gross area includes snow removal access.										R	IOC			
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.									I	F	G	IOC		
Broadcast Manager Office	12	1	12	-	-	-	-	-														
Work Room, Assigned & Unassigned Desks	48	1	48	-	-	-	-	-														
Technical Operations centre	40	1	40	100	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.									I	F	R	IOC		
Broadcast Catering	140	1	140	180	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	-														
Kitchen & Prep	20	1	20	-	-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.														
Buffet Line & Dining	120	1	120	-	-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.														
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements.														
Work Space(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.														
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-														
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters.														
Work Space(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.														
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-														
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.														
Toilets	1.5	8	12	36	-	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.														
Commentator Control Room (CCR)	10	1	10	15	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in Back of House area, in close proximity to commentator position area.	Enclosed space with incoming television cable.	Assumes existing space or container unit.									I	F	R	IOC		
Broadcast Information Office (BIO)	20	1	20	25	Space for broadcast management and team meetings.	Back of House area; located near commentator positions and CCR.	Enclosed space.	Assumes existing space or container unit.									J	J	R	IOC		
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-									J	J	G	IOC		
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J								R	IOC		
Mixed Zone	25	1	25	90	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Located in the Back of House, adjacent to the FOP.	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I	I	J								R	IOC, IF		
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in seating areas with view to FOP and covered when possible.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	-											R	IOC		

FIGURE SKATING / SHORT TRACK

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Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	-	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	-			I	J			J					
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions	1 position = uses 1 seat in existing seating bowls.	-			I	J			J			R	IOC	
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval.	J		I	J			J			R	IOC	
Camera Position - Other	4	35	140	315	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	-	I		I	J			J			R	IOC	
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-							J	I		J	G	IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	See also Technology requirements.							J	I		J	G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in Back of House areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.							J	I		J	G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography, in conjunction with OBS and IFs.	J			J	I		J	I			R	IOC
Catering																				
Catering Compound	565	1	565	1020	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity. Gross area includes snow removal access.		I		F							P	
Work Spaces - Catering Management	28	1	28	-	Operational work space(s).	Located in Back of House area.	Enclosed space.	Assumes existing space or container.												
Organising Committee Catering Manager	-	-	-	-	-	Located in Venue Operations Centre.	See Venue Management - VOC.	-												
Catering Contractor	16	1	16	-	-	-	-	-												
Beverage Contractor	12	1	12	-	-	-	-	-												
Dry, Cold and Ice Storage	38	6	228	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.												
Vehicle Staging	90	1	90	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-												
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-												
Kitchen and Preparation Area	80	1	80	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.												
Uncovered Storage	75	1	75	-	Outdoor storage of material and products.	-	Area only.	-												
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilets should be provided.												
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit.	-												
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in the Front of House, in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container's). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity and level of catering activity.		I		F							P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	Located in the Front House area, adjacent to spectator points of sale.	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.												
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	Located in the Front House area, adjacent to spectator points of sale.	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.												
Outlets' Look	-	-	-	-	-	-	See Look for details.	-	I		F								P	

FIGURE SKATING / SHORT TRACK

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Ceremonies																				
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-											P	
Ceremonies Staging	36	1	36	45	Area to coordinate ceremonies; e.g. podium, procession, recession route and flags. .	Adjacent to or close to FOP.	Consists of coordinator work space with area for anthem storage, secure storage, preparation and dressing area; see below for additional details.	Assumes existing space or container.											P	
Manager Desk	6	1	6	-	Workspace for Manager.	-	-	-												
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenters, Medal/Flower staging, Secure medal and flag storage	22	1	22	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format. Medals storage is not required for those venues where the medal ceremony will take place at another location.												
Presenter Preparation and Dressing	4	2	8	-	A dressing and preparation area for Presenters.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-												
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	Close to FOP.	Limited use, may be shared with other space. See Sport Presentation.	-		I		F							P	
Awards Podium Storage	12	1	12	15	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	-			I	F							P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.		I		J	J					G	R	IOC
Cleaning and Waste																				
Cleaning & Waste Compound	252	1	252	420	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House (BOH) area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependant upon venue capacity. Gross area includes snow removal access.											P	
Vehicle Staging	72	1	72	-	Parking area for collection vehicles which generally remain inside the venue.	BOH	Area only.	-												
Sorting Area	72	1	72	-	Area for sorting waste.	BOH	Area only.	-												
Waste & Recycle Containers	15	4	60	-	Area in front of waste and recycle bins where material is separated for containment.	BOH	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).												
Compactor Unit	25	Varies	Varies	-	-	BOH	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.												
Equipment Supply & Storage	15	2	30	-	Space for cleaning equipment and paper product.	BOH	Enclosed space.	Assumes container unit.												
Contractor Office	18	1	18	-	Space for management and workforce staging.	BOH	Enclosed space.	-												
Doping Control																				
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	-		J		J	J						R	IOC
Waiting Area/Reception	26	1	26	30	Area where athletes check-in and wait prior to testing.	-	-	-												
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Blood Processing Room(s)	15	Varies	Varies	20 (each)	Area where athlete blood samples are provided and sealed	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer. Wash basin for hand sanitisation.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Office / Storage	12	1	12	15	Work and storage space for Doping Manager.	-	Enclosed space. Secure storage.	-												
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-		I		J	J						R	IOC

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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.										P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of workforce pre-shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.										P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.										P	
Information Desk	-	-	-	-	-	-	-	-											
Lost and Found	-	-	-	-	A holding area for items found in the venue.	-	-	-											
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spect	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	-	-	Will depend on level of service at venue.										P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes; located between screening/search area and spectator plaza.	Total number generally 50% of security screening positions.										P	
Stroller Storage	Varies	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	In close proximity to seating area.	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.										P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.										P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators										P	
Spectator Shade and Shelter	Varies	Varies	Varies	72 (each)	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and spectator service amenities.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.										P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-										P	
Spectator Toilets	1.5	Varies	Varies	5 (each) 6 (per 20 toilets)	Toilet units designated for spectators.	Located in FOH, close proximity to seating and spectator amenities.	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.										P	
Hand Wash Stations	1	Varies	Varies	6 (per 20 toilets)	A chemical unit used in the absence of potable water	Located in FOH, close proximity to seating and spectator amenities.	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.										P	

FIGURE SKATING / SHORT TRACK

Principles of Stakeholder
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I-Input, J-Joint Decision,
F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Finance																		
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I		F						P
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Located in Front of House, both inside venue perimeter and outside venue perimeter.	Area only.	Quantity dependent upon venue capacity.		I		F						P
Language Services																		
Work Space / Desk	20	1	20	25	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre (VOC).	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-		J	J			I				G IOC
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference ne-	-		J	J			I				G IOC
Logistics																		
Logistics Compound	-	1	-	780	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access.					F					P
Logistics Centre	60	1	60	-	-	-	Enclosed space.	Assumes container units or tent.										
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-										
Team Staging/Work Space	33	1	33	-	Space for staging and a work area.	-	-	-										
Secure Storage & Equipment Sign-out	15	1	15	-	Area for storage.	-	Storage for tools.	-										
Warehouse Storage	90	1	90	-	Storage area for furniture, fixtures, and equipment (F	-	Enclosed space.	Assumes tent										
Storage Yard	75	1	75	-	Outside storage area within compound.	-	Area only.	-										
Vehicle Staging	100	1	100	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-										
Fuel Tank(s)	9	Varies	Varies	25 (each)	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.										
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.										
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.										
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.										
Material Transfer Area (MTA)	-	1	-	575	Generally for deliveries to the venue that may take place after hours or not within the logistics delivery window period.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.				F						P
X-Ray Area	36	1	36	72	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.										

FIGURE SKATING / SHORT TRACK

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Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation		
Look of the Games																					
Work Space and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.											P		
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J							J	R	IOC	
National Olympic Committee (NOC) Flags	Varies	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events) and competition format.	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.		J	J							J	R	IOC	
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and Back of House locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J						J	G	R,P	IOC, IF
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals. Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.		I	J	J						J	G	R	IOC, L
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH)	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.		I	J	J						J	G	R	IOC, L
Backdrop - Press Conference Room	2.2 x 6	1	2.2 x 6	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F			I	I					
Outlets' Look	-	-	-	-	Look required for concessionaire units.	Located in FOH.	Venue catering and merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-		I		F								P	
Medical Services																					
Athlete Medical	65	1	65	100	An area where Medical provides services to athletes competing at the venue.	Located in Back of House within the accredited athlete area.	Enclosed space.	Assumes container or existing space.	J	J	J								R	IF	
Reception & Waiting	12	1	12	-	Area where athletes check-in and wait prior to examination.	-	-	-													
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-													
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-													
Physiotherapy Area(s)	8	2	16	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-													
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.													
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J								S	IF	
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.													
Spectator Medical	50	1	50	100	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed space. 1 per 20,000 spectators.	Assumes container unit or existing space.		I	F	I							P		
Reception & Waiting	12	1	12	-	Area where spectators check-in and wait prior to examination.	-	-	-													
Medical Work Space & Secure Storage	12	1	12	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-													
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-													
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.													
Triage Station	36	1	38	72	Additional space to treat minor medical needs of spectators.	Located in the Front of House.	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.		I	F	I							P		
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only. For Winter Games, the ambulances may need heated shelters or access to electrical outlets for block heaters and protection from snow and ice.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.				F	I						P		
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Area only. Paved, graveled or grass area with fence, barricade or rope enclosure.	-			F	I							P		

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Merchandise																			
Office, Cash Room & Work Space	12	1	12	15	An area to manage the retailing of all Olympic merchandise inside the venue.	-	Enclosed space with secure entry.	Assumes container unit or existing space.					F					P	
Storage	15	2	30	35	-	-	-	Assumes storage containers or existing space.				F						P	
Program Sales Stands/Booths	1	1	1	2	-	-	Area only.	Units provided by vendor. Quantity and location decided by vendor and OCOG.				F						P	
Merchandise Points of Sale (POS) Outlets' Look	6	Varies	Varies	18 (each)	Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.	Gross area is per each P.O.S. and includes service area and queue.		I		F						P	
Olympic Family Services																			
Olympic Family Lounge	240	1	240	500	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes existing space or temporary set-up (tent).	I		I	F					G	G	IOC
Welcome Desk and Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-	-											
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.	-											
Workforce/Volunteer Room and Storage	12	1	12	-	On-call waiting area for Protocol workforce and equipment storage.	-	-	-											
Dining and Lounge	140	1	140	-	Area for dining and lounge.	-	-	-											
Preparation/Buffer set-up/Beverage Area	70	1	70	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Workforce/Volunteer, Athlete, Media)	-											
Toilets	30	1	30	60	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	4 female, 4 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided				J	J					R	IOC
Protocol flags																			
Press Operations																			
Venue Media Centre (VMC)	790	1	790	1015	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Conference Room and Photo Positions.	Close proximity to Press Conference Room and Mixed Zone area.	Enclosed space for press and photographers.	Assumes tent.				F						R	IOC
Reception & Information Desk	30	1	30	-	Welcome desk at the entrance, for information distribution.	-	-	-											
Storage	10	1	10	-	Equipment storage.	-	-	-											
Press Manager Office	15	1	15	-	Operational work space.	-	-	-											
Photo Manager Office	15	1	15	-	Operational work space.	-	-	-											
Olympic News Service (ONS) Work Room or Area	30	1	30	-	Operational work space.	-	Enclosed space.	-											
Info Stations	35	1	35	-	Computer stations and printers.	-	-	-											
Press Work Room or Area	320	1	320	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.											
Photo Work Room or Area	100	1	100	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.	-											
Photographers Check-in & Photo Bib Distribution	25	1	25	-	Area where photographers register and receive/return photo bibs.	-	-	-											
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.											
Lounge/Catering Preparation	180	1	180	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-	-											
Toilets	1.5	10	15	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided											

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Press Conference Room	260	1	260	420	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams .	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I			F					R	IOC	
Seating Area	200	1	200	-	An area for accredited press.	-	Seats and standing room.	-											
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3 .6 m table, 8 chairs & step and repeat backdrop.	-											
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-											
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-											
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-				F		I	I				
Mixed Zone	80	1	80	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I	I	F						R	IOC,IF	
Press Tribune	-	-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	-	Tabled seating is fitted out with telephones, television monitors, power and other press facilities (indoor venues). For outdoor venues, these services will exist in VMC.	-											
Press Tabletop Seating	Varies	Varies	Varies	-	-	Easy access from Venue Media Centre and direct access if possible to Mixed Zone.	In an existing stadium or seating area: 1 seat wide (folding chairs at 60 cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50 cm deep tabletop per position, each position = 2 stadium seats. <u>Temporary Stands:</u> 1 seat (folding chairs at 60 cm spacing) x 2 rows deep of proposed seating system (normally 150 cm-170 cm deep).	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.		I	F					I	R	IOC,IF	
Press Seating (non-tabled)	Varies	Varies	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.			I	F					I	R	IOC,IF
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided											
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-											
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	Located along FOP.	60 cm wide x 90 cm deep per position, multi-row areas require 60 cm riser per row.	Power, Wireless and data cabling needed to photo positions on FOP.	J	I	J						R	IOC, IF	
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Normal seating areas.	-	Seating areas are generally not applicable for outdoor venues.	I	I	F						G	IOC	
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

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Security																			
Security Command Centre	120	1	120	145	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.											
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-											
Security Work Space	15	1	15	-	An area for additional security agencies.	-	-	-											
CCTV Surveillance & Video Desk	15	1	15	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-											
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.											
Radio Dispatch & Monitoring	15	1	15	-	An area for the monitoring and control of security communication and the distribution/return of security radios.	-	-	-											
Work Room	50	1	50	-	Open plan of work stations designated for security personnel.	-	-	-											
Secure Storage	10	1	10	-	An area for Security equipment storage.	-	Enclosed, secure space.	-											
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-											
Briefing and Break Area / Staging Area	140	1	140	170	Area for briefing workforce before and after shifts.	-	Enclosed space.	Assumes tent.											
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.											
Vehicle Screening & Sanitisation Area	569	1	569	800	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.											
Vehicle Queue	175	1	175	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-											
Oversized Vehicle Queue	140		140	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-											
Vehicle Sanitisation & Wanding Areas	150		75	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.											
Oversized Vehicle (Truck & Bus) Sanitisation	70		70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-											
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.											
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Enclosed space for staging and break.	-											
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the venue secure perimeter and/or venue screening area for constituents.	-	Dependent upon spectator capacity and venue design.											
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-											
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-											
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-											
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.											

FIGURE SKATING / SHORT TRACK

Principles of Stakeholder
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Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the venue secure perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.										G	P	
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the venue secure perimeter.	Enclosed space for screening/search area positions.. Net area for each screening position will accommodate the following: 4 Wanding Stations, OR - 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue. Dependent upon spectator capacity and venue design.												
Athlete / Team	18	1-2	18-36	36-72	-	BOH.	-	-	I			F								P
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with Athlete and/or Olympic Family.	I			F								P
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with TO, ENG and/or Press.	I		I	F								P
Broadcast	18	1-2	18-36	45-90	-	BOH.	-	If possible, direct access from outside venue perimeter into Broadcast Compound.				F		I					R	IOC
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	BOH; located in close proximity to Venue Broadcast Compound.	-	-												
Press and Photographer	18	1-2	18-36	36-72	-	BOH; located in close proximity to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast).	If possible, direct access from outside venue perimeter into Venue Media Centre.					F						R	IOC
Workforce (Staff/Volunteer/Contractor/Vendor)	18	2-3	36-54	90-135	-	BOH or possibly FOH.	-	-					F						G	IOC
Spectator / Sponsors	18	Varies	Varies	54	-	FOH.	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-					F							P
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.												
Exception Gate	Varies	Varies	Varies	-	Access gate for designated accredited personnel.	FOH; located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.												
X-ray of bags	36	Varies	Varies	72 (each)	Device for screening bags/equipment coming into the venue.	FOH and BOH.	Covered.	-				I		F				G	P	
Venue Perimeter Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	Dependent upon spectator capacity and venue design.					F		I					P
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	1m to 3m width, sometimes used as a secondary service vehicle exit point.	-												
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m each, number varies per concourse design.	-												
Workforce (Staff/Volunteer/Contractor/Vendor)	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	Size dependant upon total workforce numbers.												
Sponsor Services																				
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.					I		F					P

FIGURE SKATING / SHORT TRACK

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Sport Operations																				
Competition Management	50	1	50	65	A work area for sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located in Back of House, in close proximity to athlete area and FOP; may be co-located within the Venue Operations Centre (VOC).	Enclosed space.		I				F					P		
Competition Manager & Asst. Manager Desks	15	1	15	-	An area for the manager and assistant(s) manager.	-	-	-												
Assigned Work Space	10	1	10	-	Open plan of work stations designated for Sport personnel.	-	-	-												
Hot Desks	10	1	10	-	Shared work stations.	-	-	-												
Work Space	15	1	15	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-												
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-												
Sport Information	20	Varies	20	25	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located in Athlete lounge.	An area located in a corner of the athlete lounge. No requirement to be enclosed.	May have a secondary location for sport information; located near athlete entry to the venue. Includes: information boards, pigeon holes, Info & Help desk, work area, info terminal stations & storage.	J			J						R	IF	
Athlete Locker Rooms	80	4	320	400	Change-room facilities to accommodate athletes at the venue during competition and training.	Located in athlete area, adjacent to FOP.	Enclosed space. Separate male and female facilities required.	Assumes cabins/container units. Shower facilities may not be necessary.	J			J							R	IF
Athlete Lounge	140	1	140	180	An area where athletes can relax at the venue while not training or competing.	Located in Athlete Area; in close proximity to FOP and athlete change-room areas.	Enclosed space.		J			J							R	IF
Team Bench Area	3	1	3	10		Adjacent to FOP; where skater FOP entry is located.	Area only.													
IF & Sport Meeting Room	100	1	100	150	Meeting facility at the venue for teams and other sport related meeting needs.	Located in the competition management area.	-	Assumes container units or existing space.	J			J							R	IF
Sport Equipment Storage	50	1	50	70	Storage for athlete/team sport equipment.	Located in athlete areas.	Enclosed, secure space.		J			J	I						R	IF
Skate Sharpening - Figure Skating	15	1	15	20	Area for skate sharpening.	Located near athlete locker room areas.	Enclosed space.													
Costume/Skate Repair -Figure Skating	10	1	10	15	Area for repair of costumes.	Located near skaters entrance to rink.	Enclosed space.													
Hairdresser & Make-up - Figure Skating	25	1	25	30	Area for Figure Skating athlete preparation prior to competition.	Located in athlete areas.	Enclosed space.													
Staging Area for FOP Workforce	3	2	9	12	Area for staging FOP/ice maintenance workforce.	Near FOP entry areas.	Area only.													
FOP Equipment Storage Area	30	1	30	40	Storage of equipment required for utilised by sport in running competition.	Located in Back of House, adjacent to Field of Play or within close proximity.	Securable storage area for equipment (e.g. gates, rakes, shovels).		I			F	I						R	IF
Zamboni Room	40	Varies	40	50	Area or storage room for Zamboni.	Located in close proximity to FOP.	Area and/or enclosed space.	Number of Zambonis on-site may vary according to facility/sport needs.												
FOP equipment/units (edgers, etc.)	25	1	25	30	Area for storage of ice maintenance equipment.	-	-													
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	Reference should be made to ISU guidelines for all FOP technical specifications.													
FOP Surface Dimensions or Area	1800	1	1800	2600	Ice surface and surrounding area.	Centre of facility/arena.	-	See below for area between FOP/ice and seating areas.	F			I							R	IF
Area Around Rinkboard	-	-	-	-	Area separating the FOP/ice from the spectator seating areas.	Located around FOP.	Area/size requirements included in overall FOP surface dimensions.	Surrounding walkway or area around the rinkboard is necessary for various functional operations; a minimum of 800 m ² is necessary to allow for adequate space for judges seats, technical panel, camera positions, and ISU camera, music/announcer. For specific area/dimensions requirements for judges seats, technical panel, camera positions, reference should be made to ISU Technical Guidelines.												
Surface	-	-	-	-	-	-	Ice.		J			J	I						R	IF
Orientation	-	-	-	-	-	-	-		J			J	I	I					R	IF
Sports Lighting - Technical	-	-	-	-	-	-	See Broadcast for lighting specifications.													

FIGURE SKATING / SHORT TRACK

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Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	-	-	-											
Warm-up Surface Dimensions or Area	120	1	120	-	Area for dry-land warm-up / routines.	Located near locker / dressing room.	Ceiling height of 5 metres. Floor, mirrors and ballet rails.	Air conditioning/HVAC necessary.	J			J			I			R	IF
Gym	40	1	40	50	Area for gym and equipment (bikes, etc.).	Located near dressing room.	-	-											
Athlete Waiting Area	3	1	3	10	Waiting area for athletes after exiting the FOP.	Located near Skater FOP exit.	Area only.	-											
Kiss and Cry Area - Figure Skating	10	1	10	15	An area where athletes and coaches wait to receive judges scores.	Located adjacent to Skater FOP exit.	Area only.	-											
Camera Positions	-	-	-	-	-	-	-	-	J			J			I			P	IF
IF / Team	6	1	6	8	Instant video camera (manual operation).	Located at rinkside, near judges area.	Pole-mounted or tripod-mounted cameras.	-											
IF / Team	2	1	2	3	Remote camera operation.	Located at rinkside, near judges area.	Automatic/remote operation.	-											
Biomechanics	10	1	10	12	-	Located in FOP position, inside area between rinkboard and seating.	Pole-mounted or tripod-mounted cameras.	-											
Athlete / Team Seating	-	-	-	-	A designated seating area for athletes.	-	-	-	J		I	J							
Same Sport	-	Varies	-	-	-	-	-	-	J		I	J						R	IOC,IF
Different Sport	-	Varies	-	-	-	-	-	-	I		I	F						R	IOC
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	May be required for Sport workforce use. Quantity varies according to athlete numbers. Assumes temporary units. Quantity varies according to athlete numbers.										P	
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	Required if FOP is not located near athlete area.											P	
International Federation																			
IF Area	90	1	90	135	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located in the Back of House, within the competition management area and in close proximity to athlete areas.	Enclosed space.	Assumes container units or existing space.	I		I	F						R	IF
IF President's Office	15	1	15	-	An office area for IF President.	-	Enclosed space.	Assumes container units or existing space.	I		I	F						R	IF
IF Secretary-General/Executive Director Office	15	1	15	-	-	-	-	Assumes container units or existing space.	I			F						G	IF
Reception, Secretariat, Waiting & Work Space	40	1	40	-	-	-	-	-	I			F						G	IF
IF Meeting Room	-	-	-	-	-	-	See IF & Sport Meeting Room.	-											
Judges Room - Figure Skating	50	1	50	60	A rest area for officials.	In close proximity to FOP.	Enclosed space.	Assumes container units or existing space.	J			J						G	IF
Judges Places	-	-	-	-	Areas where judges are placed.	Around rink board on FOP.	Area.	-											
Seeding / Draw Room	120	1	120	150	Area for meetings involving coaches and team officials and draw room.	IF & Sport Meeting Room.	See IF & Sport Meeting Room.	-											
Jury Room	30	1	30	35	This space is utilised for the resolution of protests and appeals after competition.	Located in the Back of House, within the competition management area and in close proximity to athlete areas.	Enclosed space.	Assumes permanent and/existing space at the venue.	I			F						R	IF
Video Room	12	1	12	15	Area utilised by technical officials for video reviews of competition.	Located in Back of House, adjacent to Jury Room.	Enclosed space.	Assumes permanent and/existing space at the venue.											
Technical Delegates Office/Work Space	15	2	30	35	Office area for Technical Delegates for Figure Skating and Short Track.	In close proximity to IF office area.	Enclosed space.	Assumes container units or existing space.	I		I	F						R	IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I		J	J						R	IOC,IF
Sport Presentation																			
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.											
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-										P	
Announcer Position	3	1	3	-	-	-	-	-										P	
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space, consisting of work area, green room, entertainer staging and dressing and prop storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.										P	

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Technology Operations																			
Technology Help Desk	20	1	20	24	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support workforce & manager.	The Help Desk and LAN Management may share a common space if necessary (e.g. when rooms or space are limited).					F					P	
Venue Technology Operations (VTO)	35	1	35	40	OCOG Technology Operations area. Operational work space for entire Venue Technology team, .	Adjacent to or within Venue Operations Centre (VOC).	Medium Security - lockable room. Air-conditioned office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	No specific spaces for partners and contractors. Time and Scoring partner (e.g. OMEGA) will use the OVR room. When not in direct operation, partner technicians can stand-by in the Technicians Intervention room.					F				G	P	
Technicians Intervention Room	35	1	35	40	A stand-by area for partner technicians when not in direct operation.	Located in close proximity to the VTO.	Enclosed space. Table and chairs. Shared area, separate desks not necessary.	-					F				G	P	
Radio Distribution Room (RDR)	30	1	30	18	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E and workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).		I		F						P	
Information Technology																			
Computer Equipment Room (CER)	15	1	15	25	Area for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room.	High Security - lockable room. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	The TER and CER may share a common space if necessary (e.g. when rooms or space are limited). Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.		I		F					G	P	
Data Local Area Network (LAN) Management Room & Store	30	1	30	35	LAN monitoring room & associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational workforce & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces. The Help Desk and LAN Management may share a common space if necessary (e.g. when rooms or space are limited).					F				G	P	

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Telecommunication & Audio Visual																			
Telecomm. Equipment Room (TER) Primary	45	1	45	50	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room.	High Security - lockable room. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	The TER and CER may share a common space if necessary (e.g. when rooms or space are limited). Raised flooring is preferable for cabling distribution, but not essential.		I		F						P	
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER.	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.		I		F						P	
Audio Control Positions	-	-	-	-	-	-	-	-				F					G	P	
Venue	4	1	4	8	Area for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Presentation. Can be on FOP, in stands or in a booth with view to FOP.	High Security-lockable room. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1 000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	-											
Press Conference	4	1	4	8	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), HVAC, weatherproof. Work space & FF&E for operator.	-											
Athletes Briefing	2	1	2	4	PA systems required for to facilitate announcements to athletes. Space required for amplifier/microphone.	Within briefing room/area for athletes.	Standard/mains power & FF&E.	-											
International Federation Area	2	1	2	4	PA systems required for Federation Area. Space required for amplifier/microphone.	Location as required by Sport/International Federation.	Standard/mains power & FF&E.	-											
Warm-Up Area	2	1	2	4	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Located in athlete warm-up area.	Standard/mains power & FF&E.	-											
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-											
Workforce Break/Dining	2	Varies	Varies	-	Area within break/dining area where audio control equipment is installed to facilitate meetings/training of large numbers of workforce.	Workforce break/dining areas.	Standard/mains power & FF&E.	-											
Video Board Control	10	1	10	12	Area of video control for video board or video projection system. Operations integral with those of Sport Presentation.	Located within Sport Presentation area. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	-				F					G	P	
Wired Communications Control	5	1	5	8	Area of wired communications master control station and support technician. System essential to operations of both Sport Presentation and Results/FOP management.	Located near or within Sport Presentation is recommended. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location is located outdoors. Good cable access to FOP, OVR Room, Sport Presentation, Broadcast Graphics Room & Results Printing required.	-				F					G	P	

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Timing, Scoring and Results Operations																				
Timing and Scoring Position	-	-	-	-	Area(s) for event timing & scoring personnel & equipment during competition.	Located adjacent and/or close to FOP.	High Security Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards, speed guns & OVR room. Space & FF&E for operators and equipment.	Where timing and scoring take place outdoors, adequate weather (rain/sun/snow) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, OMEGA	
Start Area - Short Track Speed Skating	1	1	1	2	Position where clock is started for event.	Located with sport at race start position.	Cable access to OVR room between all intermediate timing points, aligner hut & start position.	-												
Control Room	30	1	30	35	Area for central Timing & Scoring control operations, including Backup C system, Event Management & photo-finish system.	Located near finish area with view to FOP.	Cable access to OVR Room, Photo Finish Control & Intermediate Positions along course.	-												
Finish Area - Short Track Speed Skating	1	1	1	2	-	-	-	-												
On Venue Results (OVR)	-	-	-	-	Area is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	-	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Adequate space and FF&E for high density of computer workstations, racks for servers and working space for technicians, operators, and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or where two sports occur concurrently will require more space for additional OVR equipment.	I	F								P	IF, OMEGA	
OVR Provider Work Space	30	1	30	32	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO, CIS, PRD, etc.).	Ideally adjacent to IT provider work area.	-	-												
IT Provider Work Space	20	1	20	25	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-												
Scoreboard Control	-	-	-	-	Area for scoreboard control operations. Operations integral with those of Sport Presentation, data provided from OVR System. Space for both Control and Interface workstations & 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Adequate space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.	I			F						G	P	IF, OMEGA
Scoreboard Control	10	1	10	12	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator & workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-												
Scoreboard Interface	4	1	4	6	Area for interface equipment (PC workstations) linking OVR system & Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-												

FIGURE SKATING / SHORT TRACK

Principles of Stakeholder
Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Results Printing (PRD)	Varies	1	Varies	-	Area for hard copy results production & distribution. Location of high intensity work involving many workforce preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area, room for Print Distribution Workstation (IDS interface) equipment and operator.	Located adjacent or in close proximity to Press Workroom. Easy access to Press Tribunes, Broadcast Commentary positions, Sport Information, Doping and Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specifications. Adequate space for interface equipment and graphics operators and good cable access to OVR room. Adequate space for staff and FF&E required for operational staff as well as 1 pallet of paper to support print/copy operations.		I	I	I	F					I	R	IF
TV Graphics Interface	6	1	6	9	Area where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operations and good cable access to OVR room.					I		F			G	P	
Technology Storage																			
Technology General Storage	60	1	60	75	Area for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F					G	P	
Timing and Scoring Storage & Workshop	20-30	1	20-30	25-35	In venue storage & workshop for timing equipment, spare parts & small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.		I		F						G	P	
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required to distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closets.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Workroom.	High Security - lockable and weatherproof. May require fan or dedicated A/C depending on room location and/or configuration. Fully redundant power (mains and generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.	I		F							P	
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of power from data/voice and audio-visual cabling.	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in a manner which allows for easy access and repair/replacement. Legacy installations should be installed as permanent while temporary (overlay) should be installed using methods which are easily installed and removed minimising potential damage to the existing structure or venue.				F						P	
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.														
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.														
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.														

FIGURE SKATING / SHORT TRACK

Principles of Stakeholder
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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	-											
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	-											
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-											
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-											
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-											
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-											
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-											
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing and Scoring/OVR contractor.	I			F							P
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.											
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F							P
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the video board. Required for outdoor venues where the video boards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each video board.											
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Presentation on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F					G		P
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to/from audio/PA amplification system and/or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend PA speakers from venue ceiling structure.	-	-	-											
Mobile Phone Infrastructure (antenna)	15	1	15	25	Infrastructure required to support installation of additional radio antenna & mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to/from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.	I			F					G		P

FIGURE SKATING / SHORT TRACK

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision, F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Ticketing																			
Ticket Box Office	40	1	40	100	An area at the venue where Olympic tickets are sold.	Located in Front of House, adjacent to the secure perimeter; near the spectator entry point of the venue.	Gross area includes internal & external queue.	Assumes container unit with disabled access to internal and external service window. Dependant upon venue layout and footprint, spectator access point locations.										P	
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	15	1	15	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s) & Will Call	15	1	15	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	25	1	25	50	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.										P	
Driver Staging	80	1	80	150	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.										P	
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside venue secure perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	20	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-										P	
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from Host City, based on vehicle/bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J			J					I	P	
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J			J					I	P	
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				I	F					P	
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.					F				I	G	IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.					F					G	IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.	I				F					G	IOC
Spectator and Workforce Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.					F					P	
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.	I				F					P	
Accessible	-	-	-	-	-	-	-	Part of Spectator total.					F					P	
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Area only. Surface areas paved or gravel/hard pack surface.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have drop-off in close proximity to accredited entry point and then driver will park.					I	F				P	
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.					F				I	P	
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.					F					P	
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-				J	J					P	
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes vehicle circulation.					F				I	P	
Emergency Services	-	-	-	50 (each)	-	Generally located inside the secure venue perimeter.	-	Includes vehicle circulation.					F				I	P	
Vehicle Chain-up Area	-	-	-	700	Area that vehicles (cars, buses, etc.) use to install chains onto vehicle tires.	Located along venue access road.	-	Required only for mountain venues in which the access road has slope exceeding an 8% grade on gravel surface or 10% grade on paved road surface.					F					P	

FIGURE SKATING / SHORT TRACK

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Venue Development																			
Site Management Compound	503	1	503	650	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Gross area includes snow removal access. Dependent upon venue footprint, extent of temporary works and number of contractors.											
Site Management Area	60	1	60	-	-	-	Enclosed space.	Assumes container unit/trailer or tent.											
Site Manager & Assistant Site Manager(s) Work Space	12	1	12	-	Work and meeting area for the Site Manager and additional staff.	-	-	-											
Site Administration Desk & Work Space	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-	-											
Response Team & Vendor Staging	24	1	24	-	On-site permanent and temporary facilities for specialty workforce and general labor crew to be on-call.	-	-	-											
Secure Storage - Site Management	12	1	12	-	Area for storage.	-	-	-											
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.	-	Enclosed space. Area for office, staging and a secure storage area.	Assumes container unit/trailer or tent. Contractor usually installs container units at their own cost.											
Sign/Look Staging, Work Space/Secure Storage	50	1	50	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	-	Assumes container unit/trailer or tent.											
Material Warehouse/Construction Work Space	80	1	80	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	-	Enclosed space. Area for carpentry, painting and general construction. Storage for non-weather proof materials.	Assumes tent or canopy with 2 side walls.											
Vendor Secure Storage	60	1	60	-	Area for containers, usually provided by the various temporary construction sub-contractors.	-	Enclosed space.	Assumes container unit/trailer or tent or existing space.											
Materials Staging Area	50	1	50	-	Area for the off-loading and loading of bulk construction materials.	-	Area only.	-											
Exterior Storage Area	50	1	50	-	Outdoor storage of material and products.	-	Area only.	Weatherproof area for large and bulk materials.											
Vehicle Staging	90	1	90	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	-	Area only.	Service, Repair & Specialty vehicles.											
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.											P
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.	-											P
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.											P
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.											
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-	-											

FIGURE SKATING / SHORT TRACK

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Venue Management																			
Venue Operations Centre (VOC)	60	1	60	90	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Dependent upon venue capacity and venue layout.											P
Venue Manager and Assistant Manager Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-											
Assigned Desks	20	1	20	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Space and Storage	18	1	18	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	40	1	40	50	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.											P
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	24	1	24	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	-											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	150	1	150	180	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre or in close proximity to VOC.	Enclosed space.	Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.											P
Snow Removal Compound	-	-	-	-	A service area where the snow removal contractor operates at the venue and performs the snow removal.	Located in the BOH area; adjacent to or within the Logistics or Waste Management compounds.	-	-											
Equipment Storage	15	1	15	-	Area for storage of snow removal equipment.	-	May require covered and enclosure.	-											
Truck & Equipment Staging	50	Varies	Varies	-	Area for staging of snow removal vehicles and equipment	-	May require covered and enclosure.	Number required may vary according to layout and/or size of venue.											
Supply Storage Area	50	Varies	Varies	-	Area for storage of supplies that may be required for snow removal (i.e. salt).	-	May require covered and enclosure.	Number required may vary according to layout and/or size of venue.											
Snow Storage / Removal Area	-	-	-	200-2000	An area or location where snow can be stored after it is removed from operational areas of the venue.	Located outside of operational areas of the venue.	Area only for dumping of snow removed areas of the venue. May require multiple locations that may exist off venue or outside the venue perimeter.	Area requirements will be based on size of venue. Snow removal may require hauling/transport to off venue location.											
Workforce																			
Workforce Area	150	1	150	180	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.											P
Check-In Area	96	1	96	-	Area to log-in venue workforce and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Space	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	335	1	335	400	The space where workforce meals are served and where workforce can break during shifts.	A location that will provide easy access to all venue workforce for breaks and meals; will vary according to venue layout/distances.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon venue workforce numbers.											P
END OF DOCUMENT																			

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation					
Accreditation																								
Venue Accreditation Office	50	1	50	125	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space. Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.											P					
Day Pass Issue & Problem Resolution Desk	15	1	15	-																				
Work Space	15	1	15	-																				
Manager Desk or Office & Storage	12	1	12	-																				
Waiting Area	8	1	8	-																				
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	Located in the Back of House area, on the perimeter of an accredited area and/or entry.	May be required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.					F						P					
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Broadcast																								
Broadcast Compound	-	1	-	5000	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, normally in the Back of House area, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	#NAME?	Gross area does not include service and production truck access requirements. Gross area includes snow removal access.											R	IOC				
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.					I		F				G	IOC				
Broadcast Manager Office	12	1	12	-	-	-	-	-																
Work Room, Assigned & Unassigned Desks	48	1	48	-	-	-	-	-																
Technical Operations centre	40	1	40	100	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.					I		F				R	IOC				
Broadcast Catering	140	1	140	180	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	-																
Kitchen & Prep	20	1	20	-	-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.																
Buffet Line & Dining	120	1	120	-	-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.																
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements. Located in temporary structure. Assumes container/trailer unit or tent.																
Work Space(s)	20	Varies	Varies	-	-	-	Enclosed space.	-																
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-																
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters. Located in temporary structure. Assumes container/trailer unit or tent.																
Work Space(s)	20	Varies	Varies	-	-	-	Enclosed space.	-																
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-																
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.																
Toilets	1.5	8	12	36	-	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Secondary Broadcast Compound	-	-	-	230	Serves as a secondary unit to the main compound to house various broadcast technical needs that are required for Broadcast to cover the full competition FOP or area.	Located adjacent to FOP.	Area only. Required on venues where size of FOP or location of Primary Compound exceeds cabling capabilities.	Specific elements are venue/sport specific.					J		J				R	IOC				
Toilets	1.5	2	3	-	Toilet units designated for broadcast personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Commentator Control Room (CCR)	10	1	10	15	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in Back of House area, in close proximity to commentator position area.	Enclosed space with incoming television cable.	Assumes existing space or container unit.					I		F				R	IOC				
Broadcast Information Office (BIO)	20	1	20	25	Space for broadcast management and team meetings.	Back of House area; located near commentator positions and CCR.	Enclosed space.	Assumes existing space or container unit.					J		J				R	IOC				
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-					J		J				G	IOC				
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J				J				R	IOC				

FREESTYLE SKIING

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision, F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Mixed Zone	25	1	25	90	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Located in the Back of House, adjacent to the FOP.	<u>Gross area</u> includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I		I	J						R	IOC, IF
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in cabins and/or container units with view to FOP and finish areas.	Each position = <u>2m x 2m (4m²)</u> , this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Commentator positions at outdoor venues are normally located in temporary cabin/container/trailer units.			I	J						R	IOC
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	-	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	-			I	J							
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions.	1 position = uses 1 seat in existing seating bowls.	-			I	J						R	IOC
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval.	J		I	J						R	IOC
Camera Position - Other	4	35	140	315	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	-	I		I	J						R	IOC
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-				J	I		J			G	IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	See also Technology requirements.					J	I		J		G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in Back of House areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.					J	I		J		G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography, in conjunction with OBS and IFs.	J			J	I		J	I		R	IOC
Catering																			
Catering Compound	565	1	565	1020	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity. Gross area includes snow removal access.		I		F						P	
Work Spaces - Catering Management	28	1	28	-	Operational work space(s).	Located in Back of House area.	Enclosed space.	Assumes existing space or container.											
Organising Committee Catering Manager	-	-	-	-	-	Located in Venue Operations Centre.	See Venue Management - VOC.	-											
Catering Contractor	16	1	16	-	-	-	-	-											
Beverage Contractor	12	1	12	-	-	-	-	-											
Dry, Cold and Ice Storage	38	6	228	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.											
Vehicle Staging	90	1	90	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-											
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-											
Kitchen and Preparation Area	80	1	80	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.											
Uncovered Storage	75	1	75	-	Outdoor storage of material and products.	-	Area only.	-											
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilets should be provided.											
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit.	-											
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in the Front of House, in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container's). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity and level of catering activity.		I		F						P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	Located in the Front House area, adjacent to spectator points of sale.	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	Located in the Front House area, adjacent to spectator points of sale.	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Outlets' Look	-	-	-	-	-	-	See Look for details.	-	I		F							P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Ceremonies																				
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-											P	
Ceremonies Staging	36	1	36	45	Area to coordinate ceremonies; e.g. podium, procession, recession route and flags. .	Adjacent to or close to FOP.	Consists of coordinator work space with area for anthem storage, secure storage, preparation and dressing area; see below for additional details.	Assumes existing space or container.											P	
Manager Desk	6	1	6	-	Workspace for Manager.	-	-	-												
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenters, Medal/Flower staging, Secure medal and flag storage	22	1	22	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format. Medals storage is not required for those venues where the medal ceremony will take place at another location.												
Presenter Preparation and Dressing	4	2	8	-	A dressing and preparation area for Presenters.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-												
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	Close to FOP.	Limited use, may be shared with other space. See Sport Presentation.	-		I		F							P	
Awards Podium Storage	12	1	12	15	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	-			I	F							P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.		I		J	J					G	R	IOC
Cleaning and Waste																				
Cleaning & Waste Compound	252	1	252	420	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House (BOH) area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependant upon venue capacity. Gross area includes snow removal access.											P	
Vehicle Staging	72	1	72	-	Parking area for collection vehicles which generally remain inside the venue.	BOH	Area only.	-												
Sorting Area	72	1	72	-	Area for sorting waste.	BOH	Area only.	-												
Waste & Recycle Containers	15	4	60	-	Area in front of waste and recycle bins where material is separated for containment.	BOH	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).												
Compactor Unit	25	Varies	Varies	-	-	BOH	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.												
Equipment Supply & Storage	15	2	30	-	Space for cleaning equipment and paper product.	BOH	Enclosed space.	Assumes container unit.												
Contractor Office	18	1	18	-	Space for management and workforce staging.	BOH	Enclosed space.	-												
Doping Control																				
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	-	J		J	J							R	IOC
Waiting Area/Reception	26	1	26	30	Area where athletes check-in and wait prior to testing.	-	-	-												
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Blood Processing Room(s)	15	Varies	Varies	20 (each)	Area where athlete blood samples are provided and sealed	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer. Wash basin for hand sanitisation.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Office / Storage	12	1	12	15	Work and storage space for Doping Manager.	-	Enclosed space. Secure storage.	-												
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-	I		J	J							R	IOC

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.										P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of workforce pre-shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.										P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.										P	
Information Desk	-	-	-	-	-	-	-	-											
Lost and Found	-	-	-	-	A holding area for items found in the venue.	-	-	-											
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spectators.	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	-	-	Will depend on level of service at venue.										P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes; located between screening/search area and spectator plaza.	Total number generally 50% of security screening positions.										P	
Stroller Storage	Varies	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	In close proximity to seating area.	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.										P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.										P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators										P	
Spectator Shade and Shelter	Varies	Varies	Varies	72 (each)	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and spectator service amenities.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.										P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-										P	
Spectator Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators.	Located in FOH, close proximity to seating and spectator amenities.	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.										P	
Hand Wash Stations	1	Varies	Varies	6 (per 20 toilets)	A chemical unit used in the absence of potable water	Located in FOH, close proximity to seating and spectator amenities.	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.										P	

FREESTYLE SKIING

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Finance																			
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I		F						P	
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Located in Front of House, both inside venue perimeter and outside venue perimeter.	Area only.	Quantity dependent upon venue capacity.		I		F						P	
Language Services																			
Work Space / Desk	20	1	20	25	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre (VOC).	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-		J	J			I				G	IOC
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference ne-	-		J	J			I				G	IOC
Logistics																			
Logistics Compound	-	1	-	780	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access.					F					P	
Logistics Centre	60	1	60	-	-	-	Enclosed space.	Assumes container units or tent.											
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-											
Team Staging/Work Space	33	1	33	-	Space for staging and a work area.	-	-	-											
Secure Storage & Equipment Sign-out	15	1	15	-	Area for storage.	-	Storage for tools.	-											
Warehouse Storage	90	1	90	-	Storage area for furniture, fixtures, and equipment (F	-	Enclosed space.	Assumes tent											
Storage Yard	75	1	75	-	Outside storage area within compound.	-	Area only.	-											
Vehicle Staging	100	1	100	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-											
Fuel Tank(s)	9	Varies	Varies	25 (each)	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.											
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.											
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.											
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.											
Material Transfer Area (MTA)	-	1	-	575	Generally for deliveries to the venue that may take place after hours or not within the logistics delivery window period.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.					F					P	
X-Ray Area	36	1	36	72	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.											

FREESTYLE SKIING

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Look of the Games																				
Work Space and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.										P		
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J					J		R	IOC	
National Olympic Committee (NOC) Flags	Varies	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events) and competition format.	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.		J	J					J		R	IOC	
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and Back of House locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J					J	G	R,P	IOC, IF
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals. Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.		I	J	J					J	G	R	IOC, L
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH)	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.		I	J	J					J	G	R	IOC, L
Backdrop - Press Conference Room	2.2 x 6	1	2.2 x 6	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F			I	I				
Outlets' Look	-	-	-	-	Look required for concessionaire units.	Located in FOH.	Venue catering and merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-		I		F							P	
Medical Services																				
Athlete Medical	65	1	65	100	An area where Medical provides services to athletes competing at the venue.	Located in Back of House within the accredited athlete area.	Enclosed space.	Assumes container or existing space.	J	J	J							R	IF	
Reception & Waiting	12	1	12	-	Area where athletes check-in and wait prior to examination.	-	-	-												
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-												
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-												
Physiotherapy Area(s)	8	2	16	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-												
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J							S	IF	
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.												
Spectator Medical	50	1	50	100	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed space. 1 per 20,000 spectators.	Assumes container unit or existing space.		I	F	I						P		
Reception & Waiting	12	1	12	-	Area where spectators check-in and wait prior to examination.	-	-	-												
Medical Work Space & Secure Storage	12	1	12	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-												
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-												
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Triage Station	36	1	38	72	Additional space to treat minor medical needs of spectators.	Located in the Front of House.	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.		I	F	I						P		
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only. For Winter Games, the ambulances may need heated shelters or access to electrical outlets for block heaters and protection from snow and ice.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.				F	I					P		
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Area only. Paved, graveled or grass area with fence, barricade or rope enclosure.	-			F	I						P		

FREESTYLE SKIING

Principles of Stakeholder
Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space <small>Sub-space(s)</small>	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Merchandise																			
Office, Cash Room & Work Space	12	1	12	15	An area to manage the retailing of all Olympic merchandise inside the venue.	-	Enclosed space with secure entry.	Assumes container unit or existing space.					F						P
Storage	15	2	30	35	-	-	-	Assumes storage containers or existing space.					F						P
Program Sales Stands/Booths	1	1	1	2	-	-	Area only.	Units provided by vendor. Quantity and location decided by vendor and OCOG.					F						P
Merchandise Points of Sale (POS)	6	Varies	Varies	18 (each)	Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.	Gross area is per each P.O.S. and includes service area and queue.		I			F						P
Outlets' Look	-	-	-	-	-	-	See Look for details.	-		I	J	J							G R IOC
Olympic Family Services																			
Olympic Family Lounge	240	1	240	500	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes tent.	I		I	F							G G IOC
Welcome Desk and Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-	-											
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.	-											
Workforce/Volunteer Room and Storage	12	1	12	-	On-call waiting area for Protocol workforce and equipment storage.	-	-	-											
Dining and Lounge	140	1	140	-	Area for dining and lounge.	-	-	-											
Preparation/Buffer set-up/Beverage Area	70	1	70	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Workforce/Volunteer, Athlete, Media)	-											
Toilets	30	1	30	60	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	4 female, 4 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided											R IOC
Protocol flags	-	-	-	-	-	-	See Look of the Games.	-			J	J							

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Press Operations																			
Venue Media Centre (VMC)	760	1	760	1010	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Conference Room and Photo Positions.	Close proximity to Press Conference Room and Mixed Zone area.	Enclosed space for press and photographers.	Assumes tent.										R	IOC
Reception & Information Desk	25	1	25	-	Welcome desk at the entrance, for information distribution.	-	-	-											
Storage	10	1	10	-	Equipment storage.	-	-	-											
Press Manager Office	15	1	15	-	Operational work space.	-	-	-											
Photo Manager Office	15	1	15	-	Operational work space.	-	-	-											
IF Media Office	15	1	15	-	Operational work space.	-	-	-											
Olympic News Service (ONS) Work Room or Area	30	1	30	-	Operational work space.	-	Enclosed space.	-											
Info Stations	28	1	28	-	Computer stations and printers.	-	-	-											
Press Work Room or Area	300	1	300	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.											
Photo Work Room or Area	120	1	120	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.	-											
Photographers Check-in & Photo Bib Distribution	20	1	20	-	Area where photographers register and receive/return photo bibs.	-	-	-											
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.											
Lounge/Catering Preparation	170	1	170	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-	-											
Toilets	1.5	8	12	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided											
Press Conference Room	200	1	200	300	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I			F						R	IOC
Seating Area	160	1	160	-	An area for accredited press.	-	Seats and standing room.	-											
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3.6 m table, 8 chairs & step and repeat backdrop.	-											
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-											
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-											
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-					F			I	I		
Mixed Zone	160	1	160	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I		I	F						R	IOC,IF
Press Tribune	-	-	-	-	A section of the standing in the Mixed Zone area (outdoor venues) and of the seating (indoor venues) dedicated to accredited journalists and photographers.	-	For outdoor venues telephones, television monitors, power and other press facilities are existing in the VMC.	-											
Standing Area in the Mixed Zone	Varies	Varies	Varies	-	An area for accredited press.	For outdoor venues, located near finish area or outrun of course area.	An open, corralled area.	Exceptions may exist at various venues.			I	F						R	IOC,IF
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided											
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-											
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	Located along FOP.	60 cm wide x 90 cm deep per position, multi-row areas require 60 cm riser per row.	Power, Wireless and data cabling needed to photo positions on FOP.	J		I	J						R	IOC, IF
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Normal seating areas.	-	Seating areas are generally not applicable for outdoor venues.	I		I	F						G	IOC
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

FREESTYLE SKIING

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Security																				
Security Command Centre	120	1	120	145	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.												
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-												
Security Work Space	15	1	15	-	An area for additional security agencies.	-	-	-												
CCTV Surveillance & Video Desk	15	1	15	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-												
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.												
Radio Dispatch & Monitoring	15	1	15	-	An area for the monitoring and control of security communication and the distribution/return of security radios.	-	-	-												
Work Room	50	1	50	-	Open plan of work stations designated for security personnel.	-	-	-												
Secure Storage	10	1	10	-	An area for Security equipment storage.	-	Enclosed, secure space.	-												
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-												
Briefing and Break Area / Staging Area	140	1	140	170	Area for briefing workforce before and after shifts.	-	Enclosed space.	Assumes tent.												
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.												
Vehicle Screening & Sanitisation Area	569	1	569	800	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.												
Vehicle Queue	175	1	175	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-												
Oversized Vehicle Queue	140		140	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-												
Vehicle Sanitisation & Wanding Areas	150		75	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.												
Oversized Vehicle (Truck & Bus) Sanitisation	70		70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-												
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.												
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Enclosed space for staging and break.	-												
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the venue secure perimeter and/or venue screening area for constituents.	-	Dependent upon spectator capacity and venue design.												
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-												
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-												
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-												
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.												

FREESTYLE SKIING

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the venue secure perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.										G	P	
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the venue secure perimeter.	Enclosed space for screening/search area positions. Net area for each screening position will accommodate the following: 4 Wanding Stations, OR - 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue. Dependent upon spectator capacity and venue design.												
Athlete / Team	18	1-2	18-36	36-72	-	BOH.	-	-	I			F								P
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with Athlete and/or Olympic Family.	I			F								P
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with TO, ENG and/or Press.	I		I	F								P
Broadcast	18	1-2	18-36	45-90	-	BOH.	-	If possible, direct access from outside venue perimeter into Broadcast Compound.				F		I					R	IOC
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	BOH; located in close proximity to Venue Broadcast Compound.	-	-												
Press and Photographer	18	1-2	18-36	36-72	-	BOH; located in close proximity to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast).	If possible, direct access from outside venue perimeter into Venue Media Centre.					F						R	IOC
Workforce (Staff/Volunteer/Contractor/Vendor)	18	2-3	36-54	90-135	-	BOH or possibly FOH.	-	-				F							G	IOC
Spectator / Sponsors	18	Varies	Varies	54	-	FOH.	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-				F								P
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.												
Exception Gate	Varies	Varies	Varies	-	Access gate for designated accredited personnel.	FOH; located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.												
X-ray of bags	36	Varies	Varies	72 (each)	Device for screening bags/equipment coming into the venue.	FOH and BOH.	Covered.	-				I		F				G	P	
Venue Perimeter Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	Dependent upon spectator capacity and venue design.					F		I					P
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	1m to 3m width, sometimes used as a secondary service vehicle exit point.	-												
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m each, number varies per concourse design.	-												
Workforce (Staff/Volunteer/Contractor/Vendor)	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	Size dependant upon total workforce numbers.												
Sponsor Services																				
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.				I		F						P

FREESTYLE SKIING

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision, F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Sport Operations																			
Competition Management	50	1	50	65	A work area for sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located in Back of House, in close proximity to athlete area and FOP; may be co-located within the Venue Operations Centre (VOC).	Enclosed space.		I			F						P	
Competition Manager & Asst. Manager Desks	15	1	15	-	An area for the manager and assistant(s) manager.	-	-	-											
Assigned Work Space	10	1	10	-	Open plan of work stations designated for Sport personnel.	-	-	-											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Space	15	1	15	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-											
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-											
Sport Information	13	1	13	20	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located adjacent to athlete area.	Enclosed space with waiting area and seating.	Includes: information boards, pigeon holes, Info & Help Desk, work area, info terminal stations & storage.	J		J							R	IF
Results Posting Area	3	1	3	-	An area for posting competition results.	Located adjacent to athlete area.	Area only.	-											
Athlete Lounge	140	1	140	180	An area where athletes, coaches and service personnel can relax at the venue while not training or competing.	Located in athlete area or in close proximity.	Enclosed space.	Includes: seating area, lounge, Info & Help Desk, info terminal stations.	J		J							R	IF
Athlete Wax Cabins / Change-rooms	67	Varies	Varies	120 (each)	Change-room facilities to accommodate athletes at the venue during competition and training; additionally, a separate area used by the service personnel and coaches for working on equipment and waxing skis.	Located in athlete area, adjacent to FOP.	Enclosed space; large compound like area for containers and/or trailers. Level surface area for placement of containers and/or trailers. with easy access for vehicles. Measurement for each cabin is 67m ² . Separate male and female facilities required.	Number of cabins will vary according to final team/athlete numbers. Gross area may vary according to placement of containers; Gross area should include the area required for snow removal equipment/vehicles. Assumes cabins/container units.	J		J							G	IF
Ski Manufacturer Cabin	35	Varies	Varies	60 (each)	An area where ski equipment manufacturers provide services to athletes.	Located in the Back of House, in close proximity to Athlete areas.	Enclosed space; an area for placement of containers and/or trailers.	Number will vary according to number of manufacturer requests. Assumes cabins/container units.	J		J							G	IF
IF & Sport Meeting Room	100	1	100	150	Meeting facility at the venue for teams and other sport related meeting needs.	Located in the competition management area.	-	Assumes container units or existing space.	J		J							R	IF
Sport Equipment Storage	60	1	60	90	Storage for athlete/team sport equipment.	Located in athlete areas.	Enclosed, secure space.	-	J		J	I						R	IF
FOP Equipment Storage Area	30	1	30	40	Storage of equipment required for utilised by sport in running competition.	Located in Back of House, adjacent to Field of Play or within close proximity.	Securable storage area for equipment (e.g. gates, rakes, shovels).	-	I		F	I						R	IF
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	Reference should be made to FIS guidelines for all technical specifications.	-											
FOP Surface Dimensions or Area	-	-	-	-	-	-	See FIS International Competition Rules (ICR) for all technical specifications.	Snow making is obligatory.	F		I		I					R	IF
Aerials	-	-	-	-	-	-	-	-											
Moguls	-	-	-	-	-	-	-	-											
Surface	-	-	-	-	-	-	Snow, snow making facilities/equipment is obligatory.	See FIS International Competition Rules (ICR) for all technical specifications.	J		J	I						R	IF
Orientation	-	-	-	-	-	-	See FIS International Competition Rules (ICR) for all technical specifications.	-	J		J	I	I					R	IF
Sports Lighting - Technical	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	-	-	-											
Warm-up Surface Dimensions or Area	-	-	-	-	-	-	See FIS International Competition Rules (ICR) for all technical specifications.	-	J		J			I				R	IF
Aerials	-	-	-	-	-	-	-	-											
Moguls	-	-	-	-	-	-	-	-											
Surface	-	-	-	-	-	-	Snow, snow making facilities/equipment is obligatory.	See FIS International Competition Rules (ICR) for all technical specifications.	J		J	I						R	IF
Orientation	-	-	-	-	-	-	-	-	I		F	I						R	IF
Athlete Staging Tent	20	Varies	20	30	Area where athletes assemble prior to starting the competition.	Located in close proximity to starting hut.	Enclosed space.	Assumes tent. Number of tents required may vary according to course/FOP set-up.	I		F							R	IF
Start Area Weather Port	20	Varies	20	30	Area where athletes start the competition.	Located at the official course start line; top of course/FOP.	Enclosed area. Required for both men and women's course start areas.	Assumes tent. Number of tents required may vary according to course/FOP set-up.											
FOP Workforce Warming/Waiting Tent	20	Varies	20					Assumes tent. Number of tents required may vary according to course/FOP set-up.											
Camera Positions	-	-	-	-	-	-	-	FIS Input required for all camera positions due to safety reasons.	J		J			I				P	IF
IF / Team	10	1	10		-	Located in FOP position.	Pole-mounted or tripod-mounted cameras.	-											
Biomechanics	10	1	10		-	Located in FOP position.	Pole-mounted or tripod-mounted cameras.	-											
Athlete / Team Seating	-	-	-	-	A designated seating area for athletes, coaches and service personnel.	-	-	-	J		I	J							
Same Sport	-	Varies	-	-	-	-	-	-	J		I	J						R	IOC,IF
Different Sport	-	Varies	-	-	-	-	-	-	I		I	F						R	IOC
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes, coaches, and service personnel.	-	-	May be required for Sport workforce use. Quantity varies according to athlete numbers.					F					P	
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes, coaches, and service personnel.	-	Required if FOP is not located near athlete area.	Assumes temporary units. Quantity varies according to athlete numbers.					F					P	
International Federation																			
IF Area	90	1	90	135	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located in the Back of House, within the competition management area and in close proximity to athlete areas.	Enclosed space.	Assumes container units or existing space.	I		I	F						R	IF
IF President's Office	15	1	15	-	An office area for IF President.	-	Enclosed space.	Assumes container units or existing space.	I		I	F						R	IF
IF Secretary-General/Executive Director Office	15	1	15	-	-	-	-	Assumes container units or existing space.	I		F							G	IF
Reception, Secretariat, Waiting & Work Space	40	1	40	-	-	-	-	-	I		F							G	IF
IF Meeting Room	-	-	-	-	-	-	See IF & Sport Meeting Room.	-											
Jury Room	15	1	15	20	This space is utilised for jury meetings during training and competition days and the resolution of protests and appeals after competition.	Located in the Back of House, within the competition management area and in close proximity to athlete areas.	Enclosed space.	Assumes container units or existing space.	I		F							R	IF
Video Room	10	1	10	15	Area utilised by technical officials for video reviews of competition.	Located in Back of House, adjacent to Jury Room.	Enclosed space.	Assumes container units or existing space.											
Lounge - International Technical Officials	15	1	15	20	A rest area for officials.	In close proximity to FOP.	Enclosed space.	Assumes container units or existing space.	J		J							G	IF
Seeding / Draw Room	-	-	-	-	Area for team captains meetings involving coaches and team officials.	IF & Sport Meeting Room.	See IF & Sport Meeting Room.	-											
Technical Information Centre	10	1	10	15	An area for distributing information to officials and competition management.	-	-	Recommend to combine with Sport Information area.											
Officials Locker Room, Shower, Toilet	20	1	20	25	Change-room for officials.	Located in Back of House, in close proximity to FOP.	-	Assumes container units or existing space. Separate men and women lockers may be necessary.	I		F							R	IF
Race Director/Technical Delegates Office/Work Space	15	1	15	20	Office area for Race Director, Technical Delegates.	In close proximity to IF President office area.	Enclosed space.	Assumes container units or existing space.	I		I	F						R	IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I		J	J						R	IOC,IF
Sport Presentation																			
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.											
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-				F						P	
Announcer Position	3	1	3	-	-	-	-	-			F							P	
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space, consisting of work area, green room, entertainer staging and dressing and prop storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.				F						P	

FREESTYLE SKIING

Principles of Stakeholder
Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space <small>(Sub-space(s))</small>	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Technology Operations																			
Technology Help Desk	20	1	20	24	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support workforce & manager.	The Help Desk and LAN Management may share a common space if necessary (e.g. when rooms or space are limited).					F					P	
Venue Technology Operations (VTO)	35	1	35	40	OCOG Technology Operations area. Operational work space for entire Venue Technology team, .	Adjacent to or within Venue Operations Centre (VOC).	Medium Security - lockable room. Air-conditioned office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	No specific spaces for partners and contractors. Time and Scoring partner (e.g. OMEGA) will use the OVR room. When not in direct operation, partner technicians can stand-by in the Technicians Intervention room.					F				G	P	
Technicians Intervention Room	35	1	35	40	A stand-by area for partner technicians when not in direct operation.	Located in close proximity to the VTO.	Enclosed space. Table and chairs. Shared area, separate desks not necessary.	-					F				G	P	
Radio Distribution Room (RDR)	30	1	30	18	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E and workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).	I			F						P	
Information Technology																			
Computer Equipment Room (CER)	15	1	15	25	Area for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room.	High Security - lockable room. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.	I			F					G	P	
Data Local Area Network (LAN) Management Room & Store	30	1	30	35	LAN monitoring room & associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational workforce & storage.	The Help Desk and LAN Management may share a common space if necessary (e.g. when rooms or space are limited).					F				G	P	
Telecommunication & Audio Visual																			
Telecomm. Equipment Room (TER) Primary	45	1	45	50	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room.	High Security - lockable room. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	The TER and CER may share a common space if necessary (e.g. when rooms or space are limited). Raised flooring is preferable for cabling distribution, but not essential.	I			F						P	
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER.	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.	I			F						P	
Audio Control Positions	-	-	-	-	-	-	-	-				F					G	P	
Venue	4	1	4	8	Area for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Presentation. Can be on FOP, in stands or in a booth with view to FOP.	High Security-lockable room. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	-											
Press Conference	4	1	4	8	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), HVAC, weatherproof. Work space & FF&E for operator.	-											

FREESTYLE SKIING

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Athletes Briefing	2	1	2	4	PA systems required for to facilitate announcements to athletes. Space required for amplifier/microphone.	Within briefing room/area for athletes.	Standard/mains power & FF&E.	-											
International Federation Area	2	1	2	4	PA systems required for Federation Area . Space required for amplifier/microphone.	Location as required by Sport/International Federation.	Standard/mains power & FF&E.	-											
Warm-Up Area	2	1	2	4	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Located in athlete warm-up area.	Standard/mains power & FF&E.	-											
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-											
Workforce Break/Dining	2	Varies	Varies	-	Area within break/dining area where audio control equipment is installed to facilitate meetings/training of large numbers of workforce.	Workforce break/dining areas.	Standard/mains power & FF&E.	-											
Video Board Control	10	1	10	12	Area of video control for video board or video projection system. Operations integral with those of Sport Presentation.	Located within Sport Presentation area. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	-				F					G	P	
Wired Communications Control	5	1	5	8	Area of wired communications master control station and support technician. System essential to operations of both Sport Presentation and Results/FOP management.	Located near or within Sport Presentation is recommended. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location is located outdoors. Good cable access to FOP, OVR Room, Sport Presentation, Broadcast Graphics Room & Results Printing required.	-				F					G	P	
Timing, Scoring and Results Operations																			
Timing and Scoring Position	-	-	-	-	Area(s) for event timing & scoring personnel & equipment during competition.	Located adjacent and/or close to FOP.	High Security Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards, speed guns & OVR room. Space & FF&E for operators and equipment.	Where timing and scoring take place outdoors, adequate weather (rain/sun/snow) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, OMEGA
Control Room	-	-	-	-	Area for central Timing & Scoring control operations, including Backup C system, Event Management & photo-finish system.	Located near finish area with view to FOP.	Cable access to OVR Room, Photo Finish Control & Intermediate Positions along course.	-											
Moguls	20	1	20	25															
Aerials	20	1	20	25															
On Venue Results (OVR)	-	-	-	-	Area is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	-	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Adequate space and FF&E for high density of computer workstations, racks for servers and working space for technicians, operators, and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or where two sports occur concurrently will require more space for additional OVR equipment.	I	F							P	IF, OMEGA	
OVR Provider Work Space	20	1	20	25	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO, CIS, PRD, etc.).	Ideally adjacent to IT provider work area.	-	-											

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IT Provider Work Space	20	1	20	25	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-											
Scoreboard Control	-	-	-	-	Area for scoreboard control operations. Operations integral with those of Sport Presentation, data provided from OVR System. Space for both Control and Interface workstations & 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Adequate space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.		I		F					G	P	IF, OMEGA
Scoreboard Control	10	1	10	12	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator & workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-											
Scoreboard Interface	4	1	4	6	Area for interface equipment (PC workstations) linking OVR system & Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-											
Results Printing (PRD)	Varies	1	Varies	-	Area for hard copy results production & distribution. Location of high intensity work involving many workforce preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area, room for Print Distribution Workstation (IDS interface) equipment and operator.	Located adjacent or in close proximity to Press Workroom. Easy access to Press Tribunes, Broadcast Commentary positions, Sport Information, Doping and Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specifications. Adequate space for interface equipment and graphics operators and good cable access to OVR room. Adequate space for staff and FF&E required for operational staff as well as 1 pallet of paper to support print/copy operations.	-	I	I	I	F					I	R	IF
TV Graphics Interface	6	1	6	9	Area where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operations and good cable access to OVR room.	-					I		F		G	P	
Technology Storage																			
Technology General Storage	60	1	60	75	Area for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F					G	P	
Timing and Scoring Storage & Workshop	20-30	1	20-30	25-35	In venue storage & workshop for timing equipment, spare parts & small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.	-		I		F					G	P	
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required to distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closets.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Workroom.	High Security - lockable and weatherproof. May require fan or dedicated A/C depending on room location and/or configuration. Fully redundant power (mains and generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.		I		F						P	
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of power from data/voice and audio-visual cabling.	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in a manner which allows for easy access and repair/replacement. Legacy installations should be installed as permanent while temporary (overlay) should be installed using methods which are easily installed and removed minimising potential damage to the existing structure or venue.				F						P	
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.	-	-	-											
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.	-	-	-											
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.	-	-	-											

FREESTYLE SKIING

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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	Principles of Stakeholder Involvement														
									IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation				
CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	-															
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	-															
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-															
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-															
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-															
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-															
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-															
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing and Scoring/OVR contractor.		I		F											P
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	-															
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	-															
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.		I		F											P

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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the video board. Required for outdoor venues where the video boards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cablings) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each video board.											
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Presentation on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.		I		F					G	P	
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to/from audio/PA amplification system and/or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cablings) required to suspend PA speakers from venue ceiling structure.	-	-	-											
Mobile Phone Infrastructure (antenna)	15	1	15	25	Infrastructure required to support installation of additional radio antenna & mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to/from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.		I		F					G	P	
Ticketing																			
Ticket Box Office	40	1	40	100	An area at the venue where Olympic tickets are sold.	Located in Front of House, adjacent to the secure perimeter; near the spectator entry point of the venue.	Gross area includes internal & external queue.	Assumes container unit with disabled access to internal and external service window. Dependant upon venue layout and footprint, spectator access point locations.					F					P	
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	15	1	15	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s) & Will Call	15	1	15	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-											

FREESTYLE SKIING

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Transport																			
Transport Area	25	1	25	50	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.					F						P
Driver Staging	80	1	80	150	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls. Assumes temporary units. Accessible toilet facilities should be provided.				F							P
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside venue secure perimeter.												
Storage Yard	-	1	-	20	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-				F							P
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from Host City, based on vehicle/bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J						I		P
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J						I		P
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F							P
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.				F			I			G	IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.				F							G IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.		I	F								G IOC
Spectator and Workforce Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				F							P
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.		I	F								P
Accessible	-	-	-	-	-	-	-	Part of Spectator total.				F							P
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Area only. Surface areas paved or gravel/hard pack surface.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have drop-off in close proximity to accredited entry point and then driver will park.			I	F							P
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.				F			I				P
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.				F			I				P
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-		J	J								P
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes vehicle circulation.				F		I					P
Emergency Services	-	-	-	50 (each)	-	Generally located inside the secure venue perimeter.	-	Includes vehicle circulation.				F		I					P
Vehicle Chain-up Area	-	-	-	700	Area that vehicles (cars, buses, etc.) use to install chains onto vehicle tires.	Located along venue access road.	-	Required only for mountain venues in which the access road has slope exceeding an 8% grade on gravel surface or 10% grade on paved road surface. May be dependent upon local legislation and/or requirements.				F		I					P

FREESTYLE SKIING

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Venue Development																			
Site Management Compound	503	1	503	650	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Gross area includes snow removal access. Dependent upon venue footprint, extent of temporary works and number of contractors.											
Site Management Area	60	1	60	-	-	-	Enclosed space.	Assumes container unit/trailer or tent.											
Site Manager & Assistant Site Manager(s) Work Space	12	1	12	-	Work and meeting area for the Site Manager and additional staff.	-	-	-											
Site Administration Desk & Work Space	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-	-											
Response Team & Vendor Staging	24	1	24	-	On-site permanent and temporary facilities for specialty workforce and general labor crew to be on-call.	-	-	-											
Secure Storage - Site Management	12	1	12	-	Area for storage.	-	-	-											
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.	-	Enclosed space. Area for office, staging and a secure storage area.	Assumes container unit/trailer or tent. Contractor usually installs container units at their own cost.											
Sign/Look Staging, Work Space/Secure Storage	50	1	50	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	-	Assumes container unit/trailer or tent.											
Material Warehouse/Construction Work Space	80	1	80	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	-	Enclosed space. Area for carpentry, painting and general construction. Storage for non-weather proof materials.	Assumes tent or canopy with 2 side walls.											
Vendor Secure Storage	60	1	60	-	Area for containers, usually provided by the various temporary construction sub-contractors.	-	Enclosed space.	Assumes container unit/trailer or tent or existing space.											
Materials Staging Area	50	1	50	-	Area for the off-loading and loading of bulk construction materials.	-	Area only.	-											
Exterior Storage Area	50	1	50	-	Outdoor storage of material and products.	-	Area only.	Weatherproof area for large and bulk materials.											
Vehicle Staging	90	1	90	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	-	Area only.	Service, Repair & Specialty vehicles.											
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.											P
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.	-											P
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.											P
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.											
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-	-											

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Venue Management																			
Venue Operations Centre (VOC)	60	1	60	90	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Dependent upon venue capacity and venue layout.											P
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-											
Assigned Desks	20	1	20	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Space and Storage	18	1	18	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	40	1	40	50	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.											P
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	24	1	24	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	-											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	150	1	150	180	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre or in close proximity to VOC.	Enclosed space.	Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.											P
Snow Removal Compound	-	-	-	-	A service area where the snow removal contractor operates at the venue and performs the snow removal.	Located in the BOH area; adjacent to or within the Logistics or Waste Management compounds.	-	-											
Equipment Storage	15	1	15	-	Area for storage of snow removal equipment.	-	May require covered and enclosure.	-											
Truck & Equipment Staging	50	Varies	Varies	-	Area for staging of snow removal vehicles and equipment	-	May require covered and enclosure.	Number required may vary according to layout and/or size of venue.											
Supply Storage Area	50	Varies	Varies	-	Area for storage of supplies that may be required for snow removal (i.e. salt).	-	May require covered and enclosure.	Number required may vary according to layout and/or size of venue.											
Snow Storage / Removal Area	-	-	-	200-2000	An area or location where snow can be stored after it is removed from operational areas of the venue.	Located outside of operational areas of the venue.	Area only for dumping of snow removed areas of the venue. May require multiple locations that may exist off venue or outside the venue perimeter.	Area requirements will be based on size of venue. Snow removal may require hauling/transport to off venue location.											
Workforce																			
Workforce Area	150	1	150	180	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.											P
Check-In Area	96	1	96	-	Area to log-in venue workforce and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Space	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	335	1	335	400	The space where workforce meals are served and where workforce can break during shifts.	A location that will provide easy access to all venue workforce for breaks and meals; will vary according to venue layout/distances.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon venue workforce numbers.											P
END OF DOCUMENT																			

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation					
Accreditation																								
Venue Accreditation Office	50	1	50	125	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space. Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.											P					
Day Pass Issue & Problem Resolution Desk	15	1	15	-																				
Work Space	15	1	15	-																				
Manager Desk or Office & Storage	12	1	12	-																				
Waiting Area	8	1	8	-																				
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	Located in the Back of House area, on the perimeter of an accredited area and/or entry.	May be required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.					F						P					
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.						F										
Broadcast																								
Broadcast Compound	-	1	-	3000	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, normally in the Back of House area, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements.																
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Broadcast Manager Office	12	1	12	-	-	-	-	-																
Work Room, Assigned & Unassigned Desks	48	1	48	-	-	-	-	-																
Technical Operations centre	40	1	40	100	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Broadcast Catering	140	1	140	180	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	-																
Kitchen & Prep	20	1	20	-	-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.																
Buffet Line & Dining	120	1	120	-	-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.																
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements.																
Work Space(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-																
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters.																
Work Space(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-																
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.																
Toilets	1.5	8	12	36	-	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Commentator Control Room	10	1	10	15	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in Back of House area, in close proximity to commentator position area.	Enclosed space with incoming television cable.	Assumes existing space or container unit.																
Broadcast Information Office (BIO)	20	1	20	25	Space for broadcast management and team meetings.	Back of House area; located near commentator positions and CCR.	Enclosed space.	Assumes existing space or container unit.																
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-																
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J			J	J				R	IOC				
Mixed Zone	25	1	25	120	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Located in the Back of House, adjacent to the FOP.	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I	I	J			J	I				R	IOC, IF				
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in seating areas with view to FOP and covered when possible.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	-																

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation			
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	-	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	-														
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions	1 position = uses 1 seat in existing seating bowls.	-			I	J							R	IOC		
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval.	J		I	J							R	IOC		
Camera Position - Other	4	35	140	315	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	-	I		I	J							R	IOC		
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-							J	I				G	IOC	
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	See also Technology requirements.								J	I				G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in Back of House areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.								J	I				G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography, in conjunction with OBS and IFs.	J							J	I				R	IOC
Catering																						
Catering Compound	565	1	565	1020	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity. Gross area includes snow removal access.														P
Work Spaces - Catering Management	28	1	28	-	Operational work space(s).	Located in Back of House area.	Enclosed space.	Assumes existing space or container.														
Organising Committee Catering Manager	-	-	-	-	-	Located in Venue Operations Centre.	See Venue Management - VOC.	-														
Catering Contractor	16	1	16	-	-	-	-	-														
Beverage Contractor	12	1	12	-	-	-	-	-														
Dry, Cold and Ice Storage	38	6	228	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.														
Vehicle Staging	90	1	90	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-														
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-														
Kitchen and Preparation Area	80	1	80	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.														
Uncovered Storage	75	1	75	-	Outdoor storage of material and products.	-	Area only.	-														
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilets should be provided.														
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit.	-														
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in the Front of House, in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container's). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity and level of catering activity.														P
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	Located in the Front House area, adjacent to spectator points of sale.	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.														
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	Located in the Front House area, adjacent to spectator points of sale.	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.														
Outlets' Look	-	-	-	-	-	-	See Look for details.	-														P

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Ceremonies																				
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-											P	
Ceremonies Staging	36	1	36	45	Area to coordinate ceremonies; e.g. podium, procession, recession route and flags. .	Adjacent to or close to FOP.	Consists of coordinator work space with area for anthem storage, secure storage, preparation and dressing area; see below for additional details.	Assumes existing space or container.											P	
Manager Desk	6	1	6	-	Workspace for Manager.	-	-	-												
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenters, Medal/Flower staging, Secure medal and flag storage	22	1	22	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format. Medals storage is not required for those venues where the medal ceremony will take place at another location.												
Presenter Preparation and Dressing	4	2	8	-	A dressing and preparation area for Presenters.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-												
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	Close to FOP.	Limited use, may be shared with other space. See Sport Presentation.	-		I		F							P	
Awards Podium Storage	12	1	12	15	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	-			I	F							P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.	I		J	J				J	G	R	IOC	
Cleaning and Waste																				
Cleaning & Waste Compound	252	1	252	420	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House (BOH) area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependant upon venue capacity. Gross area includes snow removal access.											P	
Vehicle Staging	72	1	72	-	Parking area for collection vehicles which generally remain inside the venue.	BOH	Area only.	-												
Sorting Area	72	1	72	-	Area for sorting waste.	BOH	Area only.	-												
Waste & Recycle Containers	15	4	60	-	Area in front of waste and recycle bins where material is separated for containment.	BOH	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).												
Compactor Unit	25	Varies	Varies	-	-	BOH	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.												
Equipment Supply & Storage	15	2	30	-	Space for cleaning equipment and paper product.	BOH	Enclosed space.	Assumes container unit.												
Contractor Office	18	1	18	-	Space for management and workforce staging.	BOH	Enclosed space.	-												
Doping Control																				
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	-	J		J	J							R	IOC
Waiting Area/Reception	26	1	26	30	Area where athletes check-in and wait prior to testing.	-	-	-												
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Blood Processing Room(s)	15	Varies	Varies	20 (each)	Area where athlete blood samples are provided and sealed	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer. Wash basin for hand sanitisation.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Office / Storage	12	1	12	15	Work and storage space for Doping Manager.	-	Enclosed space. Secure storage.	-												
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-	I		J	J							R	IOC

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.											P
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of workforce pre-shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.											P
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.											P
Information Desk	-	-	-	-	-	-	-	-											
Lost and Found	-	-	-	-	A holding area for items found in the venue.	-	-	-											
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spectators.	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	-	-	Will depend on level of service at venue.											P
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes; located between screening/search area and spectator plaza.	Total number generally 50% of security screening positions.											P
Stroller Storage	Varies	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	In close proximity to seating area.	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.											P
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.											P
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators											P
Spectator Shade and Shelter	Varies	Varies	Varies	72 (each)	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and spectator service amenities.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.											P
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-											P
Spectator Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators.	Located in FOH, close proximity to seating and spectator amenities.	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.											P
Hand Wash Stations	1	Varies	Varies	6 (per 20 toilets)	A chemical unit used in the absence of potable water	Located in FOH, close proximity to seating and spectator amenities.	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.											P

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Finance																		
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I		F						P
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Located in Front of House, both inside venue perimeter and outside venue perimeter.	Area only.	Quantity dependent upon venue capacity.		I		F						P
Language Services																		
Work Space / Desk	20	1	20	25	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre (VOC).	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-		J	J			I				G IOC
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference ne-	-		J	J			I				G IOC
Logistics																		
Logistics Compound	-	1	-	780	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access.					F					P
Logistics Centre	60	1	60	-	-	-	Enclosed space.	Assumes container units or tent.										
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-										
Team Staging/Work Space	33	1	33	-	Space for staging and a work area.	-	-	-										
Secure Storage & Equipment Sign-out	15	1	15	-	Area for storage.	-	Storage for tools.	-										
Warehouse Storage	90	1	90	-	Storage area for furniture, fixtures, and equipment (F	-	Enclosed space.	Assumes tent										
Storage Yard	75	1	75	-	Outside storage area within compound.	-	Area only.	-										
Vehicle Staging	100	1	100	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-										
Fuel Tank(s)	9	Varies	Varies	25 (each)	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.										
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.										
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.										
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.										
Material Transfer Area (MTA)	-	1	-	575	Generally for deliveries to the venue that may take place after hours or not within the logistics delivery window period.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.				F						P
X-Ray Area	36	1	36	72	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.										

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation		
Look of the Games																					
Work Space and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.										P			
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J						J	R	IOC		
National Olympic Committee (NOC) Flags	Varies	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events) and competition format.	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.		J	J						J	R	IOC		
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and Back of House locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J					J	G	R,P	IOC, IF	
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals. Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.		I	J	J					J	G	R	IOC, L	
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH)	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.		I	J	J					J	G	R	IOC, L	
Backdrop - Press Conference Room	2.2 x 6	1	2.2 x 6	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F		I	I						
Outlets' Look	-	-	-	-	Look required for concessionaire units.	Located in FOH.	Venue catering and merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-	I			F							P		
Medical Services																					
Athlete Medical	50	1	50	75	An area where Medical provides services to athletes competing at the venue.	Located in Back of House within the accredited athlete area.	Enclosed space.	Assumes container or existing space.	J	J	J						J	R	IF		
Reception & Waiting	10	1	10	-	Area where athletes check-in and wait prior to examination.	-	-	-													
Medical Work Space & Secure Storage	8	2	16	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-													
Examination Area(s)	8	1	8	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-													
Physiotherapy Area(s)	10	1	10	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-													
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.													
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J						J	S	IF		
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.													
Spectator Medical	50	1	50	100	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed space. 1 per 20,000 spectators.	Assumes container unit or existing space.		I	F		I	I				P			
Reception & Waiting	12	1	12	-	Area where spectators check-in and wait prior to examination.	-	-	-													
Medical Work Space & Secure Storage	12	1	12	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-													
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-													
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.													
Triage Station	36	1	38	72	Additional space to treat minor medical needs of spectators.	Located in the Front of House.	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.		I	F		I	I				P			
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only. For Winter Games, the ambulances may need heated shelters or access to electrical outlets for block heaters and protection from snow and ice.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.									F	I	I	P	
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Area only. Paved, graveled or grass area with fence, barricade or rope enclosure.	-										F	I	I	P

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Merchandise																		
Office, Cash Room & Work Space	12	1	12	15	An area to manage the retailing of all Olympic merchandise inside the venue.	-	Enclosed space with secure entry.	Assumes container unit or existing space.					F					P
Storage	15	2	30	35	-	-	-	Assumes storage containers or existing space.				F						P
Program Sales Stands/Booths	1	1	1	2	-	-	Area only.	Units provided by vendor. Quantity and location decided by vendor and OCOG.				F						P
Merchandise Points of Sale (POS) Outlets' Look	6	Varies	Varies	18 (each)	Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.	Gross area is per each P.O.S. and includes service area and queue.		I		F						P
Olympic Family Services	-	-	-	-	-	-	See Look for details.	-		I	J	J						G R IOC
Olympic Family Lounge	240	1	240	500	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes existing space or temporary set-up (tent).	I		I	F					I G G	IOC
Welcome Desk and Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-	-										
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.	-										
Workforce/Volunteer Room and Storage	12	1	12	-	On-call waiting area for Protocol workforce and equipment storage.	-	-	-										
Dining and Lounge	140	1	140	-	Area for dining and lounge.	-	-	-										
Preparation/Buffer set-up/Beverage Area	70	1	70	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Workforce/Volunteer, Athlete, Media)	-										
Toilets	30	1	30	60	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	4 female, 4 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided										
Protocol flags	-	-	-	-	-	-	See Look of the Games.	-			J	J						R IOC
Press Operations																		
Venue Media Centre (VMC)	935	1	935	1180	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Conference Room and Photo Positions.	Close proximity to Press Conference Room and Mixed Zone area.	Enclosed space for press and photographers.	Assumes tent.				F						R IOC
Reception & Information Desk	30	1	30	-	Welcome desk at the entrance, for information distribution.	-	-	-										
Storage	10	1	10	-	Equipment storage.	-	-	-										
Press Manager Office	15	1	15	-	Operational work space.	-	-	-										
Photo Manager Office	15	1	15	-	Operational work space.	-	-	-										
IF Media Office	15	1	15	-	Operational work space.	-	-	-										
Olympic News Service (ONS) Work Room or Area	30	1	30	-	Operational work space.	-	Enclosed space.	-										
Info Stations	42	1	42	-	Computer stations and printers.	-	-	-										
Press Work Room or Area	375	1	375	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.										
Photo Work Room or Area	125	1	125	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.	-										
Photographers Check-in & Photo Bib Distribution	25	1	25	-	Area where photographers register and receive/return photo bibs.	-	-	-										
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.										
Lounge/Catering Prep	235	1	235	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-	-										
Toilets	1.5	12	18	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided										

ICE HOCKEY 1

Principles of Stakeholder
Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Press Conference Room	240	1	240	400	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams .	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I			F						R	IOC	
Seating Area	180	1	180	-	An area for accredited press.	-	Seats and standing room.	-												
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3 .6 m table, 8 chairs & step and repeat backdrop.	-												
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-												
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-												
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-				F			I	I				
Mixed Zone	80	1	80	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I		I	F						R	IOC,IF	
Press Tribune	-	-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	-	Tabled seating is fitted out with telephones, television monitors, power and other press facilities (indoor venues). For outdoor venues, these services will exist in VMC.	-												
Press Tabletop Seating	Varies	Varies	Varies	-	-	Easy access from Venue Media Centre and direct access if possible to Mixed Zone.	<u>In an existing stadium or seating area:</u> 1 seat wide (folding chairs at 60 cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50 cm deep tabletop per position, each position = 2 stadium seats. <u>Temporary Stands:</u> 1 seat (folding chairs at 60 cm spacing) x 2 rows deep of proposed seating system (normally 15 0 cm-170 cm deep).	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.			I	F						R	IOC,IF	
Press Seating (non-tabled)	Varies	Varies	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.			I	F							R	IOC,IF
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided												
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-												
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	Located along FOP.	60 cm wide x 90 cm deep per position, multi-row areas require 60 cm riser per row.	Power, Wireless and data cabling needed to photo positions on FOP.	J		I	J							R	IOC, IF
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Normal seating areas.	-	Seating areas are generally not applicable for outdoor venues.	I		I	F							G	IOC
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-												

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Security																			
Security Command Centre	120	1	120	145	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.											
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-											
Security Work Space	15	1	15	-	An area for additional security agencies.	-	-	-											
CCTV Surveillance & Video Desk	15	1	15	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-											
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.											
Radio Dispatch & Monitoring	15	1	15	-	An area for the monitoring and control of security communication and the distribution/return of security radios.	-	-	-											
Work Room	50	1	50	-	Open plan of work stations designated for security personnel.	-	-	-											
Secure Storage	10	1	10	-	An area for Security equipment storage.	-	Enclosed, secure space.	-											
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-						J	J				P
Briefing and Break Area / Staging Area	140	1	140	170	Area for briefing workforce before and after shifts.	-	Enclosed space.	Assumes tent.											
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.						J	J				P
Vehicle Screening & Sanitisation Area	569	1	569	800	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.											P
Vehicle Queue	175	1	175	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-											
Oversized Vehicle Queue	140		140	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-											
Vehicle Sanitisation & Wanding Areas	150		75	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.											
Oversized Vehicle (Truck & Bus) Sanitisation	70		70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-											
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.											
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Enclosed space for staging and break.	-											
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the venue secure perimeter and/or venue screening area for constituents.	-	Dependent upon spectator capacity and venue design.											
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-	I										P
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-											P
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-											P
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.											P

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the venue secure perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.										G	P	
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the venue secure perimeter.	Enclosed space for screening/search area positions. Net area for each screening position will accommodate the following: 4 Wanding Stations, OR - 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue. Dependent upon spectator capacity and venue design.												
Athlete / Team	18	1-2	18-36	36-72	-	BOH.	-	-	I			F								P
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with Athlete and/or Olympic Family.	I			F								P
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with TO, ENG and/or Press.	I		I	F								P
Broadcast	18	1-2	18-36	45-90	-	BOH.	-	If possible, direct access from outside venue perimeter into Broadcast Compound.				F		I					R	IOC
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	BOH; located in close proximity to Venue Broadcast Compound.	-	-												
Press and Photographer	18	1-2	18-36	36-72	-	BOH; located in close proximity to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast).	If possible, direct access from outside venue perimeter into Venue Media Centre.					F						R	IOC
Workforce (Staff/Volunteer/Contractor/Vendor)	18	2-3	36-54	90-135	-	BOH or possibly FOH.	-	-					F						G	IOC
Spectator / Sponsors	18	Varies	Varies	54	-	FOH.	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-					F							P
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.												
Exception Gate	Varies	Varies	Varies	-	Access gate for designated accredited personnel.	FOH; located adjacent to primary spectator entrance.	Spectator exit gate may be utilised depending on venue layout.	Utilised only by authorised workforce.												
X-ray of bags	36	Varies	Varies	72 (each)	Device for screening bags/equipment coming into the venue.	FOH and BOH.	Covered.	-				I		F				G	P	
Venue Perimeter Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	Dependent upon spectator capacity and venue design.					F		I					P
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	1m to 3m width, sometimes used as a secondary service vehicle exit point.	-												
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m each, number varies per concourse design.	-												
Workforce (Staff/Volunteer/Contractor/Vendor)	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	Size dependant upon total workforce numbers.												
Sponsor Services																				
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.					I		F					P

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Sport Operations																			
Competition Management	-	-	-	-	A work area for sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located in Back of House, in close proximity to athlete area and FOP; may be co-located with the IF.	Enclosed space. See IF area for further detail on standards.	Assumes permanent or temporary structure.	I			F						P	
Competition Manager & Asst. Manager Desks	12	1	12	-	An area for the manager and assistant(s) manager.	-	-	-											
Assigned Work Space	-	-	-	-	Open plan of work stations designated for Sport personnel.	-	-	-											
Hot Desks	-	-	-	-	Shared work stations.	-	-	-											
Work Space	-	-	-	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-											
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	Also, use of conference space in IF area.											
Sport Information	13	1	13	20	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located adjacent to athlete area.	Enclosed space with waiting area and seating.	Includes: information boards, pigeon holes, Info & Help Desk, work area, info terminal stations & storage.	J			J					J	R	IF
Athlete Lounge	160	1	160	200	An area where athletes can relax at the venue while not training or competing.	Located in athlete area.	Enclosed space.	Assumes permanent or temporary structure. Includes: seating area, lounge, Info & Help Desk, info terminal stations.	J			J					J	R	IF
Athlete Locker Rooms	50	16	800	1120	Change-room facilities to accommodate teams at the venue during competition and training.	Located in athlete area, adjacent to FOP.	Enclosed space.	Assumes permanent facilities. Includes space in each change-room for athletes, coaches, equipment manager and team storage.	J			J						R	IF
Laundry Room	60	1	60	75	An area used by team equipment managers to launder team uniforms.	Located in close proximity to athlete change-rooms.	Enclosed space.	-	J			J						R	IF
IF & Sport Meeting Room	100	1	100	150	Meeting facility at the venue for teams and other sport related meeting needs.	Located in the competition management area.	-	Assumes container units or existing space.	J			J						R	IF
Sport Equipment Storage	125	1	125	150	Storage for athlete/team sport equipment.	Located in athlete areas.	Enclosed, secure space.	Assumes permanent and/existing space at the venue.	J			J	I				I	R	IF
Skate Sharpening & Equipment Repair Room	80	1	80	100	An area where a skate manufacturer provides skate repair and sharpening services to athletes.	Located in close proximity to athlete areas.	Enclosed space.	Assumes permanent and/existing space at the venue.	J			J	I				I	R	IF
Uniform and Apparel Repair	124	1	124	150	An area where uniform repairs or alterations (sewing names on jerseys) are performed.	Located in close proximity to athlete change-rooms.	Enclosed space.	Assumes permanent and/existing space at the venue.	J			J	I				I	R	IF
Team Storage Area	12	16	192	225	Storage area assigned to each team.	Located in close proximity to athlete locker rooms.	Enclosed, secure space.	-	J			J	I				I	R	IF
FOP Equipment Storage Area	200	1	200	225	Storage of equipment required for utilised by sport in running competition.	Located in Back of House, adjacent to Field of Play / Ice level or within close proximity.	Securable storage area for equipment (e.g. gates, rakes, shovels, zambonis).	Assumes permanent and/existing space at the venue.	I			F	I				I	R	IF
Zamboni Room	20	Varies	20	30	Area or storage room for Zamboni.	Located in close proximity to FOP.	Area and/or enclosed space.	Number of Zambonis on-site may vary according to facility/sport needs.											
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	Reference should be made to IIHF guidelines for all technical specifications.	-											
FOP Surface Dimensions or Area	-	-	-	-	-	-	Ice, Penalty Box, Goal Judges Box, Players Box.	-	F			I					I	R	IF
Total Required Dimensions or Area	-	-	-	-	-	-	-	-	F			I					I	R	IF
Surface	-	-	-	-	-	-	Ice	-	J			J	I				J	R	IF
Orientation	-	-	-	-	-	-	-	-	J			J	I				I	R	IF
Sports Lighting - Technical	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	-	-	-											
Warm-up Surface Dimensions or Area	160	1	160	200	-	Located in close proximity to athlete change-rooms.	Enclosed space with exercise mats and equipment utilised by athletes to warm-up prior to competition.	-	J		J			I	J			R	IF
Athlete / Team Seating	-	-	-	-	A designated seating area for athletes.	-	-	-	J		I	J							
Same Sport	-	Varies	-	-	-	-	-	-	J		I	J						R	IOC,IF
Different Sport	-	Varies	-	-	-	-	-	-	I		I	F						R	IOC
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	May be required for Sport workforce use. Quantity varies according to athlete numbers. Assumes temporary units. Quantity varies according to athlete numbers.					F					P	
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	Required if FOP is not located near athlete area.	Assumes temporary units. Quantity varies according to athlete numbers.					F					P	
International Federation																			
IF Area	195	1	195	250	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located in the Back of House, co-located with the competition management area and in close proximity to athlete areas.	Enclosed space.	Assumes permanent and/existing space at the venue.	I		I	F						R	IF
IF Secretary-General/Executive Director Office	15	1	15	-	-	-	-	-	I			F						G	IF
Reception, Secretariat, Waiting & Work Area	80	1	80	-	-	-	Enclosed spaces for competition manager, Jury/Directorate, and open work-spaces for IF staff, technical delegates, and OCOG competition management\$	This area includes space for competition manager and workforce and the Jury / Directorate.	I			F						G	IF
IF Conference Area	20	1	20	-	-	Located with-in Secretary General office area.	-	-											
IF Meeting Room	-	-	-	-	-	-	See IF & Sport Meeting Room.	-											
IF Press Area	20	1	20	25	An area for the IF press workforce	Located in close proximity to IF areas.	Enclosed space.	Assumes permanent and/existing space at the venue.	I			F						G	IF
Jury / Directorate Area	-	-	-	-	This space is utilised for the resolution of protests and appeals after competition.	Located in the Back of House, within the IF area and in close proximity to athlete areas.	See IF Area.	-	I			F						R	IF
Video Room	12	1	12	15	Area utilised by technical officials for video reviews of competition.	Located in Back of House, adjacent to Jury Room.	Enclosed space.	Assumes permanent and/existing space at the venue.											
Video Goal Judge Room	20	1	20	25	An area where officials review game video tape to determine the outcome of a disputed on-ice call.	Located adjacent and with view to FOP.	Enclosed space. View to FOP required.	Assumes permanent and/existing space at the venue.											
Lounge - Officials	80	1	80	100	A rest area for officials.	In close proximity to FOP.	Enclosed space.	Assumes container units or existing space.	J		J							G	IF
Officials Locker Room, Shower, Toilet	130	1	130	200	Change-room for officials.	Located in Back of House, in close proximity to FOP.	-	Assumes container units or existing space. Separate men and women lockers may be necessary.	I			F						R	IF
Technical Delegates Office/Work Space	-	-	-	-	Office area for Technical Delegates.	Located in IF area.	Enclosed space.	Assumes container units or existing space.	I		I	F						R	IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I		J	J						R	IOC,IF
Sport Presentation																			
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.											
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-				F						P	
Announcer Position	3	1	3	-	-	-	-	-				F						P	
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space, consisting of work area, green room, entertainer staging and dressing and prop storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.					F					P	

Space <small>Sub-space(s)</small>	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Technology Operations																			
Technology Help Desk	20	1	20	24	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support workforce & manager.	The Help Desk and LAN Management may share a common space if necessary (e.g. when rooms or space are limited).					F					P	
Venue Technology Operations (VTO)	35	1	35	40	OCOG Technology Operations area. Operational work space for entire Venue Technology team, .	Adjacent to or within Venue Operations Centre (VOC).	Medium Security - lockable room. Air-conditioned office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	No specific spaces for partners and contractors. Time and Scoring partner (e.g. OMEGA) will use the OVR room. When not in direct operation, partner technicians can stand-by in the Technicians Intervention room.					F				G	P	
Technicians Intervention Room	35	1	35	40	A stand-by area for partner technicians when not in direct operation.	Located in close proximity to the VTO.	Enclosed space. Table and chairs. Shared area, separate desks not necessary.	-					F				G	P	
Radio Distribution Room (RDR)	30	1	30	18	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E and workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).		I		F						P	
Information Technology																			
Computer Equipment Room (CER)	15	1	15	25	Area for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room.	High Security - lockable room. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	The TER and CER may share a common space if necessary (e.g. when rooms or space are limited). Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.		I		F					G	P	
Data Local Area Network (LAN) Management Room & Store	30	1	30	35	LAN monitoring room & associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational workforce & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces. The Help Desk and LAN Management may share a common space if necessary (e.g. when rooms or space are limited).					F				G	P	

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Space <small>Sub-space(s)</small>	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Telecommunication & Audio Visual																			
Telecomm. Equipment Room (TER) Primary	45	1	45	50	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room.	High Security - lockable room. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	The TER and CER may share a common space if necessary (e.g. when rooms or space are limited). Raised flooring is preferable for cabling distribution, but not essential.		I		F						P	
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER.	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.		I		F						P	
Audio Control Positions	-	-	-	-	-	-	-	-				F					G	P	
Venue	4	1	4	8	Area for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Presentation. Can be on FOP, in stands or in a booth with view to FOP.	High Security-lockable room. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1 000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	-											
Press Conference	4	1	4	8	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), HVAC, weatherproof. Work space & FF&E for operator.	-											
Athletes Briefing	2	1	2	4	PA systems required for to facilitate announcements to athletes. Space required for amplifier/microphone.	Within briefing room/area for athletes.	Standard/mains power & FF&E.	-											
International Federation Area	2	1	2	4	PA systems required for Federation Area . Space required for amplifier/microphone.	Location as required by Sport/International Federation.	Standard/mains power & FF&E.	-											
Warm-Up Area	2	1	2	4	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Located in athlete warm-up area.	Standard/mains power & FF&E.	-											
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-											
Workforce Break/Dining	2	Varies	Varies	-	Area within break/dining area where audio control equipment is installed to facilitate meetings/training of large numbers of workforce.	Workforce break/dining areas.	Standard/mains power & FF&E.	-											
Video Board Control	10	1	10	12	Area of video control for video board or video projection system. Operations integral with those of Sport Presentation.	Located within Sport Presentation area. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	-				F					G	P	
Wired Communications Control	5	1	5	8	Area of wired communications master control station and support technician. System essential to operations of both Sport Presentation and Results/FOP management.	Located near or within Sport Presentation is recommended. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location is located outdoors. Good cable access to FOP, OVR Room, Sport Presentation, Broadcast Graphics Room & Results Printing required.	-				F					G	P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Timing, Scoring and Results Operations																			
Results Data Entry Position	-	-	-	-	Area for event results and/or statistics data entry during competition.	As noted below	High Security. Fully redundant power (mains & generator) with UPS to all results data entry equipment/workstations. Space & FF&E for all data entry personnel & results management staff.	Where data entry occurs outdoors, adequate weather (rain/sun/snow) protection for equipment/workstations to be provided.	I	I	I	F						R	IF
Field of Play - Statistics Tables	2	2	4	5	Areas/positions for statistics calling & data entry into OVR system.	Positions located at either end of FOP with sport statisticians.	Cable pathway to Technical Table.	May occur as a position on the FOP, or in a room with a view to the FOP.											
Field of Play - Technical Table	3	1	3	4	Area/position for results data entry.	Position located at Technical Table on FOP with sport results & sport officials.	Cable pathway to Statistics Tables, Official Table & OVR Room.	Generally occurs Back of House, in sport location.											
Timing and Scoring Position	-	-	-	-	Area(s) for event timing & scoring personnel & equipment during competition.	Located adjacent and/or close to FOP.	High Security Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards, speed guns & OVR room. Space & FF&E for operators and equipment.	Where timing and scoring take place outdoors, adequate weather (rain/sun/snow) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, OMEGA
Control Room	20	1	20	25	Area for central Timing & Scoring control operations, including Backup C system, Event Management & photo-finish system.	Located near finish area with view to FOP.	Cable access to OVR Room, Photo Finish Control & Intermediate Positions along course.	-											
On Venue Results (OVR)	-	-	-	-	Area is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	-	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Adequate space and FF&E for high density of computer workstations, racks for servers and working space for technicians, operators, and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or where two sports occur concurrently will require more space for additional OVR equipment.			I	F						P	IF, OMEGA
OVR Provider Work Space	25	1	25	30	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO, CIS, PRD, etc.).	Ideally adjacent to IT provider work area.	-	-											
IT Provider Work Space	20	1	20	25	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-											
Scoreboard Control	-	-	-	-	Area for scoreboard control operations. Operations integral with those of Sport Presentation, data provided from OVR System. Space for both Control and Interface workstations & 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Adequate space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.			I	F					G	P	
Scoreboard Control	10	1	10	12	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator & workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-											
Scoreboard Interface	4	1	4	6	Area for interface equipment (PC workstations) linking OVR system & Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-											

ICE HOCKEY 1

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Results Printing (PRD)	Varies	1	Varies	-	Area for hard copy results production & distribution. Location of high intensity work involving many workforce preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area, room for Print Distribution Workstation (IDS interface) equipment and operator.	Located adjacent or in close proximity to Press Workroom. Easy access to Press Tribunes, Broadcast Commentary positions, Sport Information, Doping and Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specifications. Adequate space for interface equipment and graphics operators and good cable access to OVR room. Adequate space for staff and FF&E required for operational staff as well as 1 pallet of paper to support print/copy operations.		I	I	I	F					I	R	IF
TV Graphics Interface	6	1	6	9	Area where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operations and good cable access to OVR room.					I		F			G	P	
Technology Storage																			
Technology General Storage	60	1	60	75	Area for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F					G	P	
Timing and Scoring Storage & Workshop	20-30	1	20-30	25-35	In venue storage & workshop for timing equipment, spare parts & small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.		I		F						G	P	
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required to distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closets.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Workroom.	High Security - lockable and weatherproof. May require fan or dedicated A/C depending on room location and/or configuration. Fully redundant power (mains and generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.	I		F							P	
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of power from data/voice and audio-visual cabling.	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in a manner which allows for easy access and repair/replacement. Legacy installations should be installed as permanent while temporary (overlay) should be installed using methods which are easily installed and removed minimising potential damage to the existing structure or venue.				F						P	
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.														
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.														
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.														

ICE HOCKEY 1

Principles of Stakeholder
I-Input, J-Joint Decision,
F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	-											
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	-											
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-											
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-											
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-											
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-											
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-											
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing and Scoring/OVR contractor.	I			F							P
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.											
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F							P
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the video board. Required for outdoor venues where the video boards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each video board.											
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Presentation on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F					G		P
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to/from audio/PA amplification system and/or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend PA speakers from venue ceiling structure.	-	-	-											
Mobile Phone Infrastructure (antenna)	15	1	15	25	Infrastructure required to support installation of additional radio antenna & mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to/from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.	I			F					G		P

ICE HOCKEY 1

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Ticketing																			
Ticket Box Office	40	1	40	100	An area at the venue where Olympic tickets are sold.	Located in Front of House, adjacent to the secure perimeter; near the spectator entry point of the venue.	Gross area includes internal & external queue.	Assumes container unit with disabled access to internal and external service window. Dependant upon venue layout and footprint, spectator access point locations.										P	
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	15	1	15	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s) & Will Call	15	1	15	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	25	1	25	50	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.										P	
Driver Staging	80	1	80	150	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.										P	
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside venue secure perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	20	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-										P	
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from Host City, based on vehicle/bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J						I	P	
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J						I	P	
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F						P	
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.				F					I	G	IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.				F						G	IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.	I		F							G	IOC
Spectator and Workforce Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				F						P	
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.	I		F							P	
Accessible	-	-	-	-	-	-	-	Part of Spectator total.				F						P	
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Area only. Surface areas paved or gravel/hard pack surface.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have drop-off in close proximity to accredited entry point and then driver will park.			I	F						P	
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.				F					I	P	
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.				F						P	
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-			J	J						P	
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes vehicle circulation.				F					I	P	
Emergency Services	-	-	-	50 (each)	-	Generally located inside the secure venue perimeter.	-	Includes vehicle circulation.				F					I	P	
Vehicle Chain-up Area	-	-	-	700	Area that vehicles (cars, buses, etc.) use to install chains onto vehicle tires.	Located along venue access road.	-	Required only for mountain venues in which the access road has slope exceeding an 8% grade on gravel surface or 10% grade on paved road surface. May be dependent upon local legislation and/or requirements.				F					I	P	

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Venue Development																			
Site Management Compound	503	1	503	650	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Gross area includes snow removal access. Dependent upon venue footprint, extent of temporary works and number of contractors.											
Site Management Area	60	1	60	-	-	-	Enclosed space.	Assumes container unit/trailer or tent.											
Site Manager & Assistant Site Manager(s) Work Space	12	1	12	-	Work and meeting area for the Site Manager and additional staff.	-	-	-											
Site Administration Desk & Work Space	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-	-											
Response Team & Vendor Staging	24	1	24	-	On-site permanent and temporary facilities for specialty workforce and general labor crew to be on-call.	-	-	-											
Secure Storage - Site Management	12	1	12	-	Area for storage.	-	-	-											
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.	-	Enclosed space. Area for office, staging and a secure storage area.	Assumes container unit/trailer or tent. Contractor usually installs container units at their own cost.											
Sign/Look Staging /Work Space/Secure Storage	50	1	50	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	-	Assumes container unit/trailer or tent.											
Material Warehouse/Construction Work Space	80	1	80	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	-	Enclosed space. Area for carpentry, painting and general construction. Storage for non-weather proof materials.	Assumes tent or canopy with 2 side walls.											
Vendor Secure Storage	60	1	60	-	Area for containers, usually provided by the various temporary construction sub-contractors.	-	Enclosed space.	Assumes container unit/trailer or tent or existing space.											
Materials Staging Area	50	1	50	-	Area for the off-loading and loading of bulk construction materials.	-	Area only.	-											
Exterior Storage Area	50	1	50	-	Outdoor storage of material and products.	-	Area only.	Weatherproof area for large and bulk materials.											
Vehicle Staging	90	1	90	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	-	Area only.	Service, Repair & Specialty vehicles.											
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.											P
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.	-											P
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.											P
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.											
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-	-											

ICE HOCKEY 1

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Venue Management																			
Venue Operations Centre (VOC)	60	1	60	90	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	Enclosed space.	Assumed container units or existing space. Dependent upon venue capacity and venue layout.					F					P	
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-											
Assigned Desks	20	1	20	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Space and Storage	18	1	18	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	40	1	40	50	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.					F					P	
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	24	1	24	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	-											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	150	1	150	180	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre or in close proximity to VOC.	Enclosed space.	Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.					F					P	
Snow Removal Compound	-	-	-	-	A service area where the snow removal contractor operates at the venue and performs the snow removal.	Located in the BOH area; adjacent to or within the Logistics or Waste Management compounds.	-	-											
Equipment Storage	15	1	15	-	Area for storage of snow removal equipment.	-	May require covered and enclosure.	-											
Truck & Equipment Staging	50	Varies	Varies	-	Area for staging of snow removal vehicles and equipment	-	May require covered and enclosure.	Number required may vary according to layout and/or size of venue.											
Supply Storage Area	50	Varies	Varies	-	Area for storage of supplies that may be required for snow removal (i.e. salt).	-	May require covered and enclosure.	Number required may vary according to layout and/or size of venue.											
Snow Storage / Removal Area	-	-	-	200-2000	An area or location where snow can be stored after it is removed from operational areas of the venue.	Located outside of operational areas of the venue.	Area only for dumping of snow removed areas of the venue. May require multiple locations that may exist off venue or outside the venue perimeter.	Area requirements will be based on size of venue. Snow removal may require hauling/transport to off venue location.											
Workforce																			
Workforce Area	150	1	150	180	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.					F					P	
Check-In Area	96	1	96	-	Area to log-in venue workforce and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Space	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	335	1	335	400	The space where workforce meals are served and where workforce can break during shifts.	A location that will provide easy access to all venue workforce for breaks and meals; will vary according to venue layout/distances.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon venue workforce numbers.					F					P	
END OF DOCUMENT																			

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Accreditation																							
Venue Accreditation Office	50	1	50	125	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space. Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.										P					
Day Pass Issue & Problem Resolution Desk	15	1	15	-																			
Work Space	15	1	15	-																			
Manager Desk or Office & Storage	12	1	12	-																			
Waiting Area	8	1	8	-																			
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	Located in the Back of House area, on the perimeter of an accredited area and/or entry.	May be required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.					F					P					
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.						F									
Broadcast																							
Broadcast Compound	-	1	-	3000	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, normally in the Back of House area, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements. Gross area includes snow removal access.										R	IOC				
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.									I	F	G	IOC			
Broadcast Manager Office	12	1	12	-	-	-	-	-															
Work Room, Assigned & Unassigned Desks	48	1	48	-	-	-	-	-															
Technical Operations centre	40	1	40	100	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.									I	F	R	IOC			
Broadcast Catering	140	1	140	180	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	-															
Kitchen & Prep	20	1	20	-	-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.															
Buffet Line & Dining	120	1	120	-	-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.															
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements.															
Work Space(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-															
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters.															
Work Space(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-															
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.															
Toilets	1.5	8	12	36	-	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.															
Commentator Control Room	10	1	10	15	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in Back of House area, in close proximity to commentator position area.	Enclosed space with incoming television cable.	Assumes existing space or container unit.									I	F	R	IOC			
Broadcast Information Office (BIO)	20	1	20	25	Space for broadcast management and team meetings.	Back of House area; located near commentator positions and CCR.	Enclosed space.	Assumes existing space or container unit.									J	J	R	IOC			
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-									J	J	G	IOC			
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J			J	J				R	IOC			
Mixed Zone	25	1	25	120	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Located in the Back of House, adjacent to the FOP.	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I	I	J			J	I				R	IOC, IF			
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in seating areas with view to FOP and covered when possible.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	-									I	J	J	I	R	IOC	

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Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	-	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	-			I	J			J	I				
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions	1 position = uses 1 seat in existing seating bowls.	-			I	J			J	I		R	IOC	
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval.	J		I	J			J	J		R	IOC	
Camera Position - Other	4	35	140	315	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	-	I		I	J			J	I		R	IOC	
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-							J	I		G	IOC	
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	See also Technology requirements.							J	I		J	G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in Back of House areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.							J	I		J	G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography, in conjunction with OBS and IFs.	J			J	I		J	I		R	IOC	
Catering																				
Catering Compound	565	1	565	1020	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity. Gross area includes snow removal access.		I		F						P		
Work Spaces - Catering Management	28	1	28	-	Operational work space(s).	Located in Back of House area.	Enclosed space.	Assumes existing space or container.												
Organising Committee Catering Manager	-	-	-	-	-	Located in Venue Operations Centre.	See Venue Management - VOC.	-												
Catering Contractor	16	1	16	-	-	-	-	-												
Beverage Contractor	12	1	12	-	-	-	-	-												
Dry, Cold and Ice Storage	38	6	228	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.												
Vehicle Staging	90	1	90	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-												
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-												
Kitchen and Preparation Area	80	1	80	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.												
Uncovered Storage	75	1	75	-	Outdoor storage of material and products.	-	Area only.	-												
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilets should be provided.												
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit.	-												
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in the Front of House, in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container's). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity and level of catering activity.		I		F						P		
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	Located in the Front House area, adjacent to spectator points of sale.	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.												
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	Located in the Front House area, adjacent to spectator points of sale.	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.												
Outlets' Look	-	-	-	-	-	-	See Look for details.	-	I		F							P		

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Ceremonies																				
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-											P	
Ceremonies Staging	36	1	36	45	Area to coordinate ceremonies; e.g. podium, procession, recession route and flags. .	Adjacent to or close to FOP.	Consists of coordinator work space with area for anthem storage, secure storage, preparation and dressing area; see below for additional details.	Assumes existing space or container.											P	
Manager Desk	6	1	6	-	Workspace for Manager.	-	-	-												
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenters, Medal/Flower staging, Secure medal and flag storage	22	1	22	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format. Medals storage is not required for those venues where the medal ceremony will take place at another location.												
Presenter Preparation and Dressing	4	2	8	-	A dressing and preparation area for Presenters.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-												
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	Close to FOP.	Limited use, may be shared with other space. See Sport Presentation.	-		I		F							P	
Awards Podium Storage	12	1	12	15	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	-			I	F							P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.	I		J	J				J	G	R	IOC	
Cleaning and Waste																				
Cleaning & Waste Compound	252	1	252	420	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House (BOH) area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependant upon venue capacity. Gross area includes snow removal access.											P	
Vehicle Staging	72	1	72	-	Parking area for collection vehicles which generally remain inside the venue.	BOH	Area only.	-												
Sorting Area	72	1	72	-	Area for sorting waste.	BOH	Area only.	-												
Waste & Recycle Containers	15	4	60	-	Area in front of waste and recycle bins where material is separated for containment.	BOH	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).												
Compactor Unit	25	Varies	Varies	-	-	BOH	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.												
Equipment Supply & Storage	15	2	30	-	Space for cleaning equipment and paper product.	BOH	Enclosed space.	Assumes container unit.												
Contractor Office	18	1	18	-	Space for management and workforce staging.	BOH	Enclosed space.	-												
Doping Control																				
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	-	J		J	J							R	IOC
Waiting Area/Reception	26	1	26	30	Area where athletes check-in and wait prior to testing.	-	-	-												
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Blood Processing Room(s)	15	Varies	Varies	20 (each)	Area where athlete blood samples are provided and sealed	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer. Wash basin for hand sanitisation.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Office / Storage	12	1	12	15	Work and storage space for Doping Manager.	-	Enclosed space. Secure storage.	-												
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-	I		J	J							R	IOC

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Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.										P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of workforce pre-shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.										P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.										P	
Information Desk	-	-	-	-	-	-	-	-											
Lost and Found	-	-	-	-	A holding area for items found in the venue.	-	-	-											
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spect	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	-	-	Will depend on level of service at venue.										P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes; located between screening/search area and spectator plaza.	Total number generally 50% of security screening positions.										P	
Stroller Storage	Varies	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	In close proximity to seating area.	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.										P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.										P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators										P	
Spectator Shade and Shelter	Varies	Varies	Varies	72 (each)	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and spectator service amenities.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.										P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-										P	
Spectator Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators.	Located in FOH, close proximity to seating and spectator amenities.	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.										P	
Hand Wash Stations	1	Varies	Varies	6 (per 20 toilets)	A chemical unit used in the absence of potable water	Located in FOH, close proximity to seating and spectator amenities.	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.										P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Finance																		
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I		F						P
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Located in Front of House, both inside venue perimeter and outside venue perimeter.	Area only.	Quantity dependent upon venue capacity.		I		F						P
Language Services																		
Work Space / Desk	20	1	20	25	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre (VOC).	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-		J	J			I				G IOC
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference ne-	-		J	J			I				G IOC
Logistics																		
Logistics Compound	-	1	-	780	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access.					F					P
Logistics Centre	60	1	60	-	-	-	Enclosed space.	Assumes container units or tent.										
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-										
Team Staging/Work Space	33	1	33	-	Space for staging and a work area.	-	-	-										
Secure Storage & Equipment Sign-out	15	1	15	-	Area for storage.	-	Storage for tools.	-										
Warehouse Storage	90	1	90	-	Storage area for furniture, fixtures, and equipment (F	-	Enclosed space.	Assumes tent										
Storage Yard	75	1	75	-	Outside storage area within compound.	-	Area only.	-										
Vehicle Staging	100	1	100	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-										
Fuel Tank(s)	9	Varies	Varies	25 (each)	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.										
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.										
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.										
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.										
Material Transfer Area (MTA)	-	1	-	575	Generally for deliveries to the venue that may take place after hours or not within the logistics delivery window period.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.				F						P
X-Ray Area	36	1	36	72	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.										

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation		
Look of the Games																					
Work Space and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.											P		
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J							J	R	IOC	
National Olympic Committee (NOC) Flags	Varies	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events) and competition format.	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.		J	J							J	R	IOC	
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and Back of House locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J						J	G	R,P	IOC, IF
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals. Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.		I	J	J						J	G	R	IOC, L
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH)	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.		I	J	J						J	G	R	IOC, L
Backdrop - Press Conference Room	2.2 x 6	1	2.2 x 6	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F			I	I					
Outlets' Look	-	-	-	-	Look required for concessionaire units.	Located in FOH.	Venue catering and merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-		I		F								P	
Medical Services																					
Athlete Medical	50	1	50	75	An area where Medical provides services to athletes competing at the venue.	Located in Back of House within the accredited athlete area.	Enclosed space.	Assumes container or existing space.	J	J	J							J	R	IF	
Reception & Waiting	10	1	10	-	Area where athletes check-in and wait prior to examination.	-	-	-													
Medical Work Space & Secure Storage	8	2	16	-	Work space for Medical Manager.	-	Enclosed space and secure storage.	-													
Examination Area(s)	8	1	8	-	Space for Medical workforce.	-	Examination tables with privacy screening.	-													
Physiotherapy Area(s)	10	1	10	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-													
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.													
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J							J	S	IF	
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.													
Spectator Medical	50	1	50	100	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed space. 1 per 20,000 spectators.	Assumes container unit or existing space.		I	F		I	I					P		
Reception & Waiting	12	1	12	-	Area where spectators check-in and wait prior to examination.	-	-	-													
Medical Work Space & Secure Storage	12	1	12	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-													
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-													
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.													
Triage Station	36	1	38	72	Additional space to treat minor medical needs of spectators.	Located in the Front of House.	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.		I	F		I	I					P		
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only. For Winter Games, the ambulances may need heated shelters or access to electrical outlets for block heaters and protection from snow and ice.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.					F	I	I				P		
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Area only. Paved, graveled or grass area with fence, barricade or rope enclosure.	-				F	I	I					P		

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation		
Merchandise																				
Office, Cash Room & Work Space	12	1	12	15	An area to manage the retailing of all Olympic merchandise inside the venue.	-	Enclosed space with secure entry.	Assumes container unit or existing space.					F					P		
Storage	15	2	30	35	-	-	-	Assumes storage containers or existing space.				F						P		
Program Sales Stands/Booths	1	1	1	2	-	-	Area only.	Units provided by vendor. Quantity and location decided by vendor and OCOG.				F						P		
Merchandise Points of Sale (POS) Outlets' Look	6	Varies	Varies	18 (each)	Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.	Gross area is per each P.O.S. and includes service area and queue.		I		F						P		
Olympic Family Services																				
Olympic Family Lounge	240	1	240	500	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes existing space or temporary set-up (tent).	I		I	F					I	G	G	IOC
Welcome Desk and Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-	-												
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.	-												
Workforce/Volunteer Room and Storage	12	1	12	-	On-call waiting area for Protocol workforce and equipment storage.	-	-	-												
Dining and Lounge	140	1	140	-	Area for dining and lounge.	-	-	-												
Preparation/Buffer set-up/Beverage Area	70	1	70	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Workforce/Volunteer, Athlete, Media)	-												
Toilets	30	1	30	60	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	4 female, 4 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided												
Protocol flags	-	-	-	-	-	-	See Look of the Games.	-			J	J						J	R	IOC
Press Operations																				
Venue Media Centre (VMC)	634	1	634	800	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Conference Room and Photo Positions.	Close proximity to Press Conference Room and Mixed Zone area.	Enclosed space for press and photographers.	Assumes tent.				F							R	IOC
Reception & Information Desk	30	1	30	-	Welcome desk at the entrance, for information distribution.	-	-	-												
Storage	10	1	10	-	Equipment storage.	-	-	-												
Press Manager Office	15	1	15	-	Operational work space.	-	-	-												
Photo Manager Office	15	1	15	-	Operational work space.	-	-	-												
IF Media Office	15	1	15	-	Operational work space.	-	-	-												
Olympic News Service (ONS) Work Room or Area	30	1	30	-	Operational work space.	-	Enclosed space.	-												
Info Stations	32	1	32	-	Computer stations and printers.	-	-	-												
Press Work Room or Area	260	1	260	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.												
Photo Work Room or Area	80	1	80	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.	-												
Photographers Check-in & Photo Bib Distribution	25	1	25	-	Area where photographers register and receive/return photo bibs.	-	-	-												
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.												
Lounge/Catering Prep	120	1	120	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-	-												
Toilets	1.5	8	12	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided												

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Press Conference Room	170	1	170	220	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams .	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I			F						R	IOC	
Seating Area	130	1	130	-	An area for accredited press.	-	Seats and standing room.	-												
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3 .6 m table, 8 chairs & step and repeat backdrop.	-												
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-												
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-												
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-				F			I	I				
Mixed Zone	60	1	60	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I		I	F						R	IOC,IF	
Press Tribune	-	-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	-	Tabled seating is fitted out with telephones, television monitors, power and other press facilities (indoor venues). For outdoor venues, these services will exist in VMC.	-												
Press Tabletop Seating	Varies	Varies	Varies	-	-	Easy access from Venue Media Centre and direct access if possible to Mixed Zone.	<u>In an existing stadium or seating area:</u> 1 seat wide (folding chairs at 60 cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50 cm deep tabletop per position, each position = 2 stadium seats. <u>Temporary Stands:</u> 1 seat (folding chairs at 60 cm spacing) x 2 rows deep of proposed seating system (normally 15 0 cm-170 cm deep).	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.			I	F						R	IOC,IF	
Press Seating (non-tabled)	Varies	Varies	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.			I	F							R	IOC,IF
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided												
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-												
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	Located along FOP.	60 cm wide x 90 cm deep per position, multi-row areas require 60 cm riser per row.	Power, Wireless and data cabling needed to photo positions on FOP.	J		I	J							R	IOC, IF
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Normal seating areas.	-	Seating areas are generally not applicable for outdoor venues.	I		I	F							G	IOC
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-												

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Security																			
Security Command Centre	120	1	120	145	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.											
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-											
Security Work Space	15	1	15	-	An area for additional security agencies.	-	-	-											
CCTV Surveillance & Video Desk	15	1	15	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-											
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.											
Radio Dispatch & Monitoring	15	1	15	-	An area for the monitoring and control of security communication and the distribution/return of security radios.	-	-	-											
Work Room	50	1	50	-	Open plan of work stations designated for security personnel.	-	-	-											
Secure Storage	10	1	10	-	An area for Security equipment storage.	-	Enclosed, secure space.	-											
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-											
Briefing and Break Area / Staging Area	140	1	140	170	Area for briefing workforce before and after shifts.	-	Enclosed space.	Assumes tent.											
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.											
Vehicle Screening & Sanitisation Area	569	1	569	800	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.											
Vehicle Queue	175	1	175	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-											
Oversized Vehicle Queue	140		140	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-											
Vehicle Sanitisation & Wanding Areas	150		75	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.											
Oversized Vehicle (Truck & Bus) Sanitisation	70		70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-											
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.											
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Enclosed space for staging and break.	-											
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the venue secure perimeter and/or venue screening area for constituents.	-	Dependent upon spectator capacity and venue design.											
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-											
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-											
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-											
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.											

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Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	BOH.	Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.										G	P
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	BOH.	Enclosed space for screening/search area positions. Net area for each screening position will accommodate the following: 4 Wanding Stations, OR - 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue. Dependent upon spectator capacity and venue design.											
Athlete / Team	18	1-2	18-36	36-72	-	BOH.	-	-	I			F							P
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with Athlete and/or Olympic Family.	I			F							P
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with TO, ENG and/or Press.	I		I	F							P
Broadcast	18	1-2	18-36	45-90	-	BOH.	-	If possible, direct access from outside venue perimeter into Broadcast Compound.				F		I				R	IOC
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	BOH; located in close proximity to Venue Broadcast Compound.	-	-											
Press and Photographer	18	1-2	18-36	36-72	-	BOH; located in close proximity to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast).	If possible, direct access from outside venue perimeter into Venue Media Centre.					F					R	IOC
Workforce (Staff/Volunteer/Contractor/Vendor)	18	2-3	36-54	90-135	-	BOH or possibly FOH.	-	-				F						G	IOC
Spectator / Sponsors	18	Varies	Varies	54	-	FOH.	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-				F							P
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.											
Exception Gate	Varies	Varies	Varies	-	Access gate for designated accredited personnel.	FOH; located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.											
X-ray of bags	36	Varies	Varies	72 (each)	Device for screening bags/equipment coming into the venue.	FOH and BOH.	Covered.	-				I		F				G	P
Venue Perimeter Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	Dependent upon spectator capacity and venue design.					F		I				P
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	1m to 3m width, sometimes used as a secondary service vehicle exit point.	-											
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m each, number varies per concourse design.	-											
Workforce (Staff/Volunteer/Contractor/Vendor)	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	Size dependant upon total workforce numbers.											
Sponsor Services																			
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.				I		F					P

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Sport Operations																			
Competition Management	-	-	-	-	A work area for sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located in Back of House, in close proximity to athlete area and FOP; may be co-located with the IF.	Enclosed space. See IF area for further detail on standards.	Assumes permanent or temporary structure.	I			F						P	
Competition Manager & Asst. Mngr. Desks	12	1	12	-	An area for the manager and assistant(s) manager.	-	-	-											
Assigned Work Area	-	-	-	-	Open plan of work stations designated for Sport personnel.	-	-	-											
Hot Desks	-	-	-	-	Shared work stations.	-	-	-											
Work Area	-	-	-	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-											
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-											
Sport Information	13	1	13	20	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located adjacent to athlete area.	Enclosed space with waiting area and seating.	Includes: information boards, pigeon holes, Info & Help Desk, work area, info terminal stations & storage.	J			J					J	R	IF
Athlete Lounge	160	1	160	200	An area where athletes can relax at the venue while not training or competing.	Located in athlete area.	Enclosed space.	Assumes permanent or temporary structure. Includes: seating area, lounge, Info & Help Desk, info terminal stations.	J			J					J	R	IF
Athlete Locker Rooms	50	16	800	1120	Change-room facilities to accommodate teams at the venue during competition and training.	Located in athlete area, adjacent to FOP.	Enclosed space.	Assumes permanent facilities. Includes space in each change-room for athletes, coaches, equipment manager and team storage.	J			J						R	IF
Laundry Room	50	1	50	75	An area used by team equipment managers to launder team uniforms.	Located in close proximity to athlete change-rooms.	Enclosed space.	-	J			J						R	IF
IF & Sport Meeting Room	100	1	100	150	Meeting facility at the venue for teams and other sport related meeting needs.	Located in the competition management area.	-	Assumes container units or existing space.	J			J						R	IF
Sport Equipment Storage	125	1	125	150	Storage for athlete/team sport equipment.	Located in athlete areas.	Enclosed, secure space.	Assumes permanent and/existing space at the venue.	J			J	I				I	R	IF
Skate Sharpening & Equipment Repair Room	80	1	80	100	An area where a skate manufacturer provides skate repair and sharpening services to athletes.	Located in close proximity to athlete areas.	Enclosed space.	Assumes permanent and/existing space at the venue.	J			J	I				I	R	IF
Uniform and Apparel Repair	75	1	75	100	An area where uniform repairs or alterations (sewing names on jerseys) are performed.	Located in close proximity to athlete change-rooms.	Enclosed space.	Assumes permanent and/existing space at the venue.	J			J	I				I	R	IF
Team Storage Area	12	16	192	225	Storage area assigned to each team.	Located in close proximity to athlete locker rooms.	Enclosed, secure space.	-	J			J	I				I	R	IF
FOP Equipment Storage Area	200	1	200	225	An area used by ice technicians as a work area and lounge.	Located in Back of House, adjacent to Field of Play / Ice level or within close proximity.	Securable storage area for equipment (e.g. gates, rakes, shovels, zambonis).	Assumes permanent and/existing space at the venue.	I			F	I				I	R	IF
Zamboni Room	20	Varies	20	30	Area or storage room for Zamboni.	Located in close proximity to FOP.	Area and/or enclosed space.	Number of Zambonis on-site may vary according to facility/sport needs.											
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	Reference should be made to IIHF guidelines for all technical specifications.	-											
FOP Surface Dimensions or Area	-	-	-	-	-	-	Ice, Penalty Box, Goal Judges Box, Players Box.	-	F			I					I	R	IF
Total Required Dimensions or Area	-	-	-	-	-	-	-	-	F			I					I	R	IF
Surface	-	-	-	-	-	-	Ice	-	J			J	I				J	R	IF
Orientation	-	-	-	-	-	-	-	-	J			J	I				I	R	IF
Sports Lighting - Technical	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

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Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	-	-	-											
Warm-up Surface Dimensions or Area	160	1	160	200	-	Located in close proximity to athlete change-rooms.	Enclosed space with exercise mats and equipment utilised by athletes to warm-up prior to competition.	-	J		J			I	J			R	IF
Athlete / Team Seating	-	-	-	-	A designated seating area for athletes.	-	-	-	J		I	J							
Same Sport	-	Varies	-	-	-	-	-	-	J		I	J						R	IOC,IF
Different Sport	-	Varies	-	-	-	-	-	-	I		I	F						R	IOC
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	May be required for Sport workforce use. Quantity varies according to athlete numbers. Assumes temporary units. Quantity varies according to athlete numbers.					F					P	
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	Required if FOP is not located near athlete area.	Assumes temporary units. Quantity varies according to athlete numbers.					F					P	
International Federation																			
IF Area	195	1	195	250	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located in the Back of House, co-located with the competition management area and in close proximity to athlete areas.	Enclosed space.	Assumes permanent and/existing space at the venue.	I		I	F						R	IF
IF Secretary-General/Executive Director Office	15	1	15	-	-	-	-	-	I			F						G	IF
Reception, Secretariat, Waiting & Work Area	80	1	80	-	-	-	Enclosed spaces for competition manager, Jury/Directorate, and open work-spaces for IF staff, technical delegates, and OCOG competition management.	This area includes space for competition manager and workforce and the Jury / Directorate.	I			F						G	IF
IF Conference Area	20	1	20	-	-	Located with-in Secretary General office area.	-	-											
IF Meeting Room	-	-	-	-	-	-	See IF & Sport Meeting Room.	-											
IF Press Area	20	1	20	25	An area for the IF press workforce	Located in close proximity to IF areas.	Enclosed space.	Assumes permanent and/existing space at the venue.	I			F						G	IF
Jury / Directorate Area	-	-	-	-	This space is utilised for the resolution of protests and appeals after competition.	Located in the Back of House, within the IF area and in close proximity to athlete areas.	See IF Area.	-	I			F						R	IF
Video Room	12	1	12	15	Area utilised by technical officials for video reviews of competition.	Located in Back of House, adjacent to Jury Room.	Enclosed space.	Assumes permanent and/existing space at the venue.											
Video Goal Judge Room	20	1	20	25	An area where officials review game video tape to determine the outcome of a disputed on-ice call.	Located adjacent and with view to FOP.	Enclosed space. View to FOP required.	Assumes permanent and/existing space at the venue.											
Lounge - Officials	80	1	80	100	A rest area for officials.	In close proximity to FOP.	Enclosed space.	Assumes container units or existing space.	J			J						G	IF
Officials Locker Room, Shower, Toilet	130	1	130	200	Change-room for officials.	Located in Back of House, in close proximity to FOP.	-	Assumes container units or existing space. Separate men and women lockers may be necessary.	I			F						R	IF
Technical Delegates Office/Work Space	-	-	-	-	Office area for Technical Delegates.	Located in IF area.	Enclosed space.	Assumes container units or existing space.	I		I	F						R	IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I		J	J						R	IOC,IF
Sport Presentation																			
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.											
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-				F						P	
Announcer Position	3	1	3	-	-	-	-	-				F						P	
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space, consisting of work area, green room, entertainer staging and dressing and prop storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.					F					P	

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Technology Operations																			
Technology Help Desk	20	1	20	24	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support workforce & manager.	The Help Desk and LAN Management may share a common space if necessary (e.g. when rooms or space are limited).					F					P	
Venue Technology Operations (VTO)	35	1	35	40	OCOG Technology Operations area. Operational work space for entire Venue Technology team, .	Adjacent to or within Venue Operations Centre (VOC).	Medium Security - lockable room. Air-conditioned office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	No specific spaces for partners and contractors. Time and Scoring partner (e.g. OMEGA) will use the OVR room. When not in direct operation, partner technicians can stand-by in the Technicians Intervention room.					F				G	P	
Technicians Intervention Room	35	1	35	40	A stand-by area for partner technicians when not in direct operation.	Located in close proximity to the VTO.	Enclosed space. Table and chairs. Shared area, separate desks not necessary.	-					F				G	P	
Radio Distribution Room (RDR)	30	1	30	18	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E and workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).		I		F						P	
Information Technology																			
Computer Equipment Room (CER)	15	1	15	25	Area for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room.	High Security - lockable room. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	The TER and CER may share a common space if necessary (e.g. when rooms or space are limited). Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.		I		F					G	P	
Data Local Area Network (LAN) Management Room & Store	30	1	30	35	LAN monitoring room & associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational workforce & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces. The Help Desk and LAN Management may share a common space if necessary (e.g. when rooms or space are limited).					F				G	P	

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Telecommunication & Audio Visual																			
Telecomm. Equipment Room (TER) Primary	45	1	45	50	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room.	High Security - lockable room. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	The TER and CER may share a common space if necessary (e.g. when rooms or space are limited). Raised flooring is preferable for cabling distribution, but not essential.		I		F						P	
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER.	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.		I		F						P	
Audio Control Positions	-	-	-	-	-	-	-	-				F					G	P	
Venue	4	1	4	8	Area for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Presentation. Can be on FOP, in stands or in a booth with view to FOP.	High Security-lockable room. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1 000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	-											
Press Conference	4	1	4	8	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), HVAC, weatherproof. Work space & FF&E for operator.	-											
Athletes Briefing	2	1	2	4	PA systems required for to facilitate announcements to athletes. Space required for amplifier/microphone.	Within briefing room/area for athletes.	Standard/mains power & FF&E.	-											
International Federation Area	2	1	2	4	PA systems required for Federation Area . Space required for amplifier/microphone.	Location as required by Sport/International Federation.	Standard/mains power & FF&E.	-											
Warm-Up Area	2	1	2	4	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Located in athlete warm-up area.	Standard/mains power & FF&E.	-											
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-											
Workforce Break/Dining	2	Varies	Varies	-	Area within break/dining area where audio control equipment is installed to facilitate meetings/training of large numbers of workforce.	Workforce break/dining areas.	Standard/mains power & FF&E.	-											
Video Board Control	10	1	10	12	Area of video control for video board or video projection system. Operations integral with those of Sport Presentation.	Located within Sport Presentation area. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	-				F					G	P	
Wired Communications Control	5	1	5	8	Area of wired communications master control station and support technician. System essential to operations of both Sport Presentation and Results/FOP management.	Located near or within Sport Presentation is recommended. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location is located outdoors. Good cable access to FOP, OVR Room, Sport Presentation, Broadcast Graphics Room & Results Printing required.	-				F					G	P	

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Timing, Scoring and Results Operations																			
Results Data Entry Position	-	-	-	-	Area for event results and/or statistics data entry during competition.	As noted below	High Security. Fully redundant power (mains & generator) with UPS to all results data entry equipment/workstations. Space & FF&E for all data entry personnel & results management staff.	Where data entry occurs outdoors, adequate weather (rain/sun/snow) protection for equipment/workstations to be provided.	I	I	I	F						R	IF
Field of Play - Statistics Tables	2	2	4	5	Areas/positions for statistics calling & data entry into OVR system.	Positions located at either end of FOP with sport statisticians.	Cable pathway to Technical Table.	May occur as a position on the FOP, or in a room with a view to the FOP.											
Field of Play - Technical Table	3	1	3	4	Area/position for results data entry.	Position located at Technical Table on FOP with sport results & sport officials.	Cable pathway to Statistics Tables, Official Table & OVR Room.	Generally occurs Back of House, in sport location.											
Timing and Scoring Position	-	-	-	-	Area(s) for event timing & scoring personnel & equipment during competition.	Located adjacent and/or close to FOP.	High Security Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards, speed guns & OVR room. Space & FF&E for operators and equipment.	Where timing and scoring take place outdoors, adequate weather (rain/sun/snow) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, OMEGA
Control Room	20	1	20	25	Area for central Timing & Scoring control operations, including Backup C system, Event Management & photo-finish system.	Located near finish area with view to FOP.	Cable access to OVR Room, Photo Finish Control & Intermediate Positions along course.	-											
On Venue Results (OVR)	-	-	-	-	Area is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	-	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Adequate space and FF&E for high density of computer workstations, racks for servers and working space for technicians, operators, and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or where two sports occur concurrently will require more space for additional OVR equipment.		I	F							P	IF, OMEGA
OVR Provider Work Space	25	1	25	30	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO, CIS, PRD, etc.).	Ideally adjacent to IT provider work area.	-	-											
IT Provider Work Space	20	1	20	25	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-											
Scoreboard Control	-	-	-	-	Area for scoreboard control operations. Operations integral with those of Sport Presentation, data provided from OVR System. Space for both Control and Interface workstations & 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Adequate space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.		I	F						G	P	IF, OMEGA
Scoreboard Control	10	1	10	12	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator & workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-											
Scoreboard Interface	4	1	4	6	Area for interface equipment (PC workstations) linking OVR system & Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-											

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Results Printing (PRD)	Varies	1	Varies	-	Area for hard copy results production & distribution. Location of high intensity work involving many workforce preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area, room for Print Distribution Workstation (IDS interface) equipment and operator.	Located adjacent or in close proximity to Press Workroom. Easy access to Press Tribunes, Broadcast Commentary positions, Sport Information, Doping and Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specifications. Adequate space for interface equipment and graphics operators and good cable access to OVR room. Adequate space for staff and FF&E required for operational staff as well as 1 pallet of paper to support print/copy operations.		I	I	I	F					I	R	IF
TV Graphics Interface	6	1	6	9	Area where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operations and good cable access to OVR room.					I		F			G	P	
Technology Storage																			
Technology General Storage	60	1	60	75	Area for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F					G	P	
Timing and Scoring Storage & Workshop	20-30	1	20-30	25-35	In venue storage & workshop for timing equipment, spare parts & small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.		I		F						G	P	
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required to distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closets.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Workroom.	High Security - lockable and weatherproof. May require fan or dedicated A/C depending on room location and/or configuration. Fully redundant power (mains and generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.	I		F							P	
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of power from data/voice and audio-visual cabling.	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in a manner which allows for easy access and repair/replacement. Legacy installations should be installed as permanent while temporary (overlay) should be installed using methods which are easily installed and removed minimising potential damage to the existing structure or venue.				F						P	
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.														
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.														
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.														

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	-											
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	-											
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-											
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-											
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-											
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-											
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-											
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing and Scoring/OVR contractor.	I			F							P
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.											
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F							P
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the video board. Required for outdoor venues where the video boards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each video board.											
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Presentation on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F					G		P
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to/from audio/PA amplification system and/or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend PA speakers from venue ceiling structure.	-	-	-											
Mobile Phone Infrastructure (antenna)	15	1	15	25	Infrastructure required to support installation of additional radio antenna & mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to/from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.	I			F					G		P

ICE HOCKEY 2

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Ticketing																			
Ticket Box Office	40	1	40	100	An area at the venue where Olympic tickets are sold.	Located in Front of House, adjacent to the secure perimeter; near the spectator entry point of the venue.	Gross area includes internal & external queue.	Assumes container unit with disabled access to internal and external service window. Dependant upon venue layout and footprint, spectator access point locations.										P	
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	15	1	15	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s) & Will Call	15	1	15	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	25	1	25	50	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.										P	
Driver Staging	80	1	80	150	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.										P	
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside venue secure perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	20	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-										P	
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from Host City, based on vehicle/bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J						I	P	
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J						I	P	
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F						P	
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.				F					I	G	IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.				F						G	IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.	I		F							G	IOC
Spectator and Workforce Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				F						P	
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.	I		F							P	
Accessible	-	-	-	-	-	-	-	Part of Spectator total.				F						P	
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Area only. Surface areas paved or gravel/hard pack surface.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have drop-off in close proximity to accredited entry point and then driver will park.			I	F						P	
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.				F					I	P	
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.				F						P	
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-			J	J						P	
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes vehicle circulation.				F					I	P	
Emergency Services	-	-	-	50 (each)	-	Generally located inside the secure venue perimeter.	-	Includes vehicle circulation.				F					I	P	
Vehicle Chain-up Area	-	-	-	700	Area that vehicles (cars, buses, etc.) use to install chains onto vehicle tires.	Located along venue access road.	-	Required only for mountain venues in which the access road has slope exceeding an 8% grade on gravel surface or 10% grade on paved road surface. May be dependent upon local legislation and/or requirements.				F						P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Venue Development																			
Site Management Compound	503	1	503	650	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Gross area includes snow removal access. Dependent upon venue footprint, extent of temporary works and number of contractors.											
Site Management Area	60	1	60	-	-	-	Enclosed space.	Assumes container unit/trailer or tent.											
Site Manager & Assistant Site Manager(s) Work Space	12	1	12	-	Work and meeting area for the Site Manager and additional staff.	-	-	-											
Site Administration Desk & Work Space	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-	-											
Response Team & Vendor Staging	24	1	24	-	On-site permanent and temporary facilities for specialty workforce and general labor crew to be on-call.	-	-	-											
Secure Storage - Site Management	12	1	12	-	Area for storage.	-	-	-											
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.	-	Enclosed space. Area for office, staging and a secure storage area.	Assumes container unit/trailer or tent. Contractor usually installs container units at their own cost.											
Sign/Look Staging/Work Space/Secure Storage	50	1	50	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	-	Assumes container unit/trailer or tent.											
Material Warehouse/Construction Work Space	80	1	80	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	-	Enclosed space. Area for carpentry, painting and general construction. Storage for non-weather proof materials.	Assumes tent or canopy with 2 side walls.											
Vendor Secure Storage	60	1	60	-	Area for containers, usually provided by the various temporary construction sub-contractors.	-	Enclosed space.	Assumes container unit/trailer or tent or existing space.											
Materials Staging Area	50	1	50	-	Area for the off-loading and loading of bulk construction materials.	-	Area only.	-											
Exterior Storage Area	50	1	50	-	Outdoor storage of material and products.	-	Area only.	Weatherproof area for large and bulk materials.											
Vehicle Staging	90	1	90	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	-	Area only.	Service, Repair & Specialty vehicles.											
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.											P
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.	-											P
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.											P
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.											
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-	-											

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Venue Management																				
Venue Operations Centre (VOC)	60	1	60	90	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Dependent upon venue capacity and venue layout.											P	
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-												
Assigned Desks	20	1	20	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.												
Hot Desks	10	1	10	-	Shared work stations.	-	-	-												
Work Space and Storage	18	1	18	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.												
Venue Communication Centre (VCC)	40	1	40	50	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.												P
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-												
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-												
Communication Operators (VCC Operators)	24	1	24	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	-												
Storage	8	1	8	-	Equipment storage area.	-	-	-												
Multi-purpose Room (MPR)	150	1	150	180	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre or in close proximity to VOC.	Enclosed space.	Assumes existing space or tent. Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.												P
Snow Removal Compound	-	-	-	-	A service area where the snow removal contractor operates at the venue and performs the snow removal.	Located in the BOH area; adjacent to or within the Logistics or Waste Management compounds.	-	-												
Equipment Storage	15	1	15	-	Area for storage of snow removal equipment.	-	May require covered and enclosure.	-												
Truck & Equipment Staging	50	Varies	Varies	-	Area for staging of snow removal vehicles and equipment	-	May require covered and enclosure.	Number required may vary according to layout and/or size of venue.												
Supply Storage Area	50	Varies	Varies	-	Area for storage of supplies that may be required for snow removal (i.e. salt).	-	May require covered and enclosure.	Number required may vary according to layout and/or size of venue.												
Snow Storage / Removal Area	-	-	-	200-2000	An area or location where snow can be stored after it is removed from operational areas of the venue.	Located outside of operational areas of the venue.	Area only for dumping of snow removed areas of the venue. May require multiple locations that may exist off venue or outside the venue perimeter.	Area requirements will be based on size of venue. Snow removal may require hauling/transport to off venue location.												
Workforce																				
Workforce Area	150	1	150	180	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.												P
Check-In Area	96	1	96	-	Area to log-in venue workforce and contractors by day or shift.	-	Check-in desks.	-												
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-												
Information Desk, Lost & Found & Work Space	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-												
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-												
Workforce Break & Dining Area	335	1	335	400	The space where workforce meals are served and where workforce can break during shifts.	A location that will provide easy access to all venue workforce for breaks and meals; will vary according to venue layout/distances.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon venue workforce numbers.												P
END OF DOCUMENT																				

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation					
Accreditation																								
Venue Accreditation Office	50	1	50	125	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space. Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.											P					
Day Pass Issue & Problem Resolution Desk	15	1	15	-																				
Work Space	15	1	15	-																				
Manager Desk or Office & Storage	12	1	12	-																				
Waiting Area	8	1	8	-																				
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	Located in the Back of House area, on the perimeter of an accredited area and/or entry.	May be required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.											P					
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Broadcast																								
Broadcast Compound	-	1	-	5000	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, normally in the Back of House area, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements. Gross area includes snow removal access.																
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.											G	IOC				
Broadcast Manager Office	12	1	12	-	-	-	-	-																
Work Room, Assigned & Unassigned Desks	48	1	48	-	-	-	-	-																
Technical Operations centre	40	1	40	100	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.											R	IOC				
Broadcast Catering	140	1	140	180	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	-																
Kitchen & Prep	20	1	20	-	-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.																
Buffet Line & Dining	120	1	120	-	-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.																
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements.																
Work Space(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-																
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters.																
Work Space(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-																
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.																
Toilets	1.5	8	12	36	-	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Commentator Control Room	10	1	10	15	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in Back of House area, in close proximity to commentator position area.	Enclosed space with incoming television cable.	Assumes existing space or container unit.											R	IOC				
Broadcast Information Office (BIO)	20	1	20	25	Space for broadcast management and team meetings.	Back of House area; located near commentator positions and CCR.	Enclosed space.	Assumes existing space or container unit.											R	IOC				
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-											G	IOC				
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J								R	IOC				
Mixed Zone	25	1	25	90	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Located in the Back of House, adjacent to the FOP.	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I	I	J								R	IOC, IF				
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in cabins and/or container units with view to FOP and finish areas.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Commentator positions at outdoor venues are normally located in temporary cabin/container/trailer units.											R	IOC				

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOC	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	-	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	-												
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions.	1 position = uses 1 seat in existing seating bowls.	-										R	IOC	
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval.	J		I	J						R	IOC	
Camera Position - Other	4	35	140	315	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	-	I		I	J						R	IOC	
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-										G	IOC	
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	See also Technology requirements.											G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in Back of House areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.										G	IOC	
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography, in conjunction with OBS and IFs.	J									R	IOC	
Catering																				
Catering Compound	565	1	565	1020	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity. Gross area includes snow removal access.											P	
Work Spaces - Catering Management	28	1	28	-	Operational work space(s).	Located in Back of House area.	Enclosed space.	Assumes existing space or container.												
Organising Committee Catering Manager	-	-	-	-	-	Located in Venue Operations Centre.	See Venue Management - VOC.	-												
Catering Contractor	16	1	16	-	-	-	-	-												
Beverage Contractor	12	1	12	-	-	-	-	-												
Dry, Cold and Ice Storage	38	6	228	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.												
Vehicle Staging	90	1	90	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-												
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-												
Kitchen and Preparation Area	80	1	80	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.												
Uncovered Storage	75	1	75	-	Outdoor storage of material and products.	-	Area only.	-												
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilets should be provided.												
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit.	-												
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in the Front of House, in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container's). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity and level of catering activity.											P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	Located in the Front House area, adjacent to spectator points of sale.	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.												
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	Located in the Front House area, adjacent to spectator points of sale.	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.												
Outlets' Look	-	-	-	-	-	-	See Look for details.	-											P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Ceremonies																			
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-											P
Ceremonies Staging	36	1	36	45	Area to coordinate ceremonies; e.g. podium, procession, recession route and flags. .	Adjacent to or close to FOP.	Consists of coordinator work space with area for anthem storage, secure storage, preparation and dressing area; see below for additional details.	Assumes existing space or container.											P
Manager Desk	6	1	6	-	Workspace for Manager.	-	-	-											
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.											
Presenters, Medal/Flower staging, Secure medal and flag storage	22	1	22	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format. Medals storage is not required for those venues where the medal ceremony will take place at another location.											
Presenter Preparation and Dressing	4	2	8	-	A dressing and preparation area for Presenters.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-											
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	Close to FOP.	Limited use, may be shared with other space. See Sport Presentation.	-											P
Awards Podium Storage	12	1	12	15	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	-											P
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.										G R	IOC
Cleaning and Waste																			
Cleaning & Waste Compound	252	1	252	420	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House (BOH) area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependant upon venue capacity. Gross area includes snow removal access.											P
Vehicle Staging	72	1	72	-	Parking area for collection vehicles which generally remain inside the venue.	BOH	Area only.	-											
Sorting Area	72	1	72	-	Area for sorting waste.	BOH	Area only.	-											
Waste & Recycle Containers	15	4	60	-	Area in front of waste and recycle bins where material is separated for containment.	BOH	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).											
Compactor Unit	25	Varies	Varies	-	-	BOH	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.											
Equipment Supply & Storage	15	2	30	-	Space for cleaning equipment and paper product.	BOH	Enclosed space.	Assumes container unit.											
Contractor Office	18	1	18	-	Space for management and workforce staging.	BOH	Enclosed space.	-											
Doping Control																			
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	-											R IOC
Waiting Area/Reception	26	1	26	30	Area where athletes check-in and wait prior to testing.	-	-	-											
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).											
Blood Processing Room(s)	15	Varies	Varies	20 (each)	Area where athlete blood samples are provided and sealed	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).											
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer. Wash basin for hand sanitisation.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).											
Office / Storage	12	1	12	15	Work and storage space for Doping Manager.	-	Enclosed space. Secure storage.	-											
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-											R IOC

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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.					F					P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of workforce pre-shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.					F					P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.										P	
Information Desk	-	-	-	-	-	-	-	-											
Lost and Found	-	-	-	-	A holding area for items found in the venue.	-	-	-											
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spectators.	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	-	-	Will depend on level of service at venue.					F					P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes; located between screening/search area and spectator plaza.	Total number generally 50% of security screening positions.					F					P	
Stroller Storage	Varies	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	In close proximity to seating area.	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.					F					P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.					F					P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators					F					P	
Spectator Shade and Shelter	Varies	Varies	Varies	72 (each)	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and spectator service amenities.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.					F					P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-					F					P	
Spectator Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators.	Located in FOH, close proximity to seating and spectator amenities.	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.					F					P	
Hand Wash Stations	1	Varies	Varies	6 (per 20 toilets)	A chemical unit used in the absence of potable water.	Located in FOH, close proximity to seating and spectator amenities.	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.					F					P	

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Principles of Stakeholder Involvement:
I-Input, J-Joint Decision, F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Finance																			
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I		F						P	
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Located in Front of House, both inside venue perimeter and outside venue perimeter.	Area only.	Quantity dependent upon venue capacity.		I		F						P	
Language Services																			
Work Space / Desk	20	1	20	25	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre (VOC).	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-		J	J			I				G	IOC
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference ne-	-		J	J			I				G	IOC
Logistics																			
Logistics Compound	-	1	-	780	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access.				F						P	
Logistics Centre	60	1	60	-	-	-	Enclosed space.	Assumes container units or tent.											
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-											
Team Staging/Work Space	33	1	33	-	Space for staging and a work area.	-	-	-											
Secure Storage & Equipment Sign-out	15	1	15	-	Area for storage.	-	Storage for tools.	-											
Warehouse Storage	90	1	90	-	Storage area for furniture, fixtures, and equipment (F	-	Enclosed space.	Assumes tent											
Storage Yard	75	1	75	-	Outside storage area within compound.	-	Area only.	-											
Vehicle Staging	100	1	100	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-											
Fuel Tank(s)	9	Varies	Varies	25 (each)	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.											
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.											
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.											
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.											
Material Transfer Area (MTA)	-	1	-	575	Generally for deliveries to the venue that may take place after hours or not within the logistics delivery window period.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.				F						P	
X-Ray Area	36	1	36	72	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.											

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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Look of the Games																				
Work Space and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.											P	
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J							R	IOC	
National Olympic Committee (NOC) Flags	Varies	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events) and competition format.	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.		J	J							R	IOC	
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and Back of House locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J					J	G	R, P	IOC, IF
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals.	-												
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH) and Back of House locations.	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.		I	J	J					J	G	R	IOC, L
Backdrop - Press Conference Room	2.2 x 6	1	2.2 x 6	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F		I	I					
Outlets' Look	-	-	-	-	Look required for concessionaire units.	Located in FOH.	Venue catering and merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-		I		F								P
Medical Services																				
Athlete Medical	65	1	65	100	An area where Medical provides services to athletes competing at the venue.	Located in Back of House within the accredited athlete area.	Enclosed space.	Assumes container or existing space.	J	J	J								R	IF
Reception & Waiting	12	1	12	-	Area where athletes check-in and wait prior to examination.	-	-	-												
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-												
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-												
Physiotherapy Area(s)	8	2	16	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-												
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J								S	IF
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.												
Spectator Medical	50	1	50	100	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed space. 1 per 20,000 spectators.	Assumes container unit or existing space.			I	F	I							P
Reception & Waiting	12	1	12	-	Area where spectators check-in and wait prior to examination.	-	-	-												
Medical Work Space & Secure Storage	12	1	12	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-												
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-												
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Triage Station	36	1	38	72	Additional space to treat minor medical needs of spectators.	Located in the Front of House.	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.			I	F	I							P
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only. For Winter Games, the ambulances may need heated shelters or access to electrical outlets for block heaters and protection from snow and ice.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.				F	I						P	
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Area only. Paved, graveled or grass area with fence, barricade or rope enclosure.	-				F	I							P

Olympic Games
SKI JUMPING / NORDIC COMBINED

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Merchandise																			
Office, Cash Room & Work Space	12	1	12	15	An area to manage the retailing of all Olympic merchandise inside the venue.	-	Enclosed space with secure entry.	Assumes container unit or existing space.				F							P
Storage	15	2	30	35	-	-	-	Assumes storage containers or existing space.				F							P
Program Sales Stands/Booths	1	1	1	2	-	-	Area only.	Units provided by vendor. Quantity and location decided by vendor and OCOG.				F							P
Merchandise Points of Sale (POS)	6	Varies	Varies	18 (each)	Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.	Gross area is per each P.O.S. and includes service area and queue.		I		F							P
Outlets' Look	-	-	-	-	-	-	See Look for details.	-		I	J	J							G R IOC
Olympic Family Services																			
Olympic Family Lounge	240	1	240	500	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes tent.	I		I	F							G G IOC
Welcome Desk and Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-	-											
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.	-											
Workforce/Volunteer Room and Storage	12	1	12	-	On-call waiting area for Protocol workforce and equipment storage.	-	-	-											
Dining and Lounge	140	1	140	-	Area for dining and lounge.	-	-	-											
Preparation/Buffer set-up/Beverage Area	70	1	70	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Workforce/Volunteer, Athlete, Media)	-											
Toilets	30	1	30	60	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	4 female, 4 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided											R IOC
Protocol flags	-	-	-	-	-	-	See Look of the Games.	-			J	J							R IOC

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Press Operations																				
Venue Media Centre (VMC)	900	1	900	1150	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Conference Room and Photo Positions.	Close proximity to Press Conference Room and Mixed Zone area.	Enclosed space for press and photographers.	Assumes tent.										R	IOC	
Reception & Information Desk	30	1	30	-	Welcome desk at the entrance, for information distribution.	-	-	-												
Storage	10	1	10	-	Equipment storage.	-	-	-												
Press Manager Office	15	1	15	-	Operational work space.	-	-	-												
Photo Manager Office	15	1	15	-	Operational work space.	-	-	-												
IF Media Office	15	1	15	-	Operational work space.	-	-	-												
Olympic News Service (ONS) Work Room or Area	30	1	30	-	Operational work space.	-	Enclosed space.	-												
Info Stations	30	1	30	-	Computer stations and printers.	-	-	-												
Press Work Room or Area	400	1	400	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.												
Photo Work Room or Area	140	1	140	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.	-												
Photographers Check-in & Photo Bib Distribution	20	1	20	-	Area where photographers register and receive/return photo bibs.	-	-	-												
Locker Area	1.5	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.												
Lounge/Catering Preparation	180	1	180	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-	-												
Toilets	1.5	10	15	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided												
Press Conference Room	230	1	230	340	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I		F							R	IOC	
Seating Area	180	1	180	-	An area for accredited press.	-	Seats and standing room.	-												
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3.6 m table, 8 chairs & step and repeat backdrop.	-												
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-												
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-												
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-				F				I	I			
Mixed Zone	200	1	200	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I	I	F							R	IOC,IF	
Press Tribune	-	-	-	-	A section of the standing in the Mixed Zone area (outdoor venues) and of the seating (indoor venues) dedicated to accredited journalists and photographers.	-	For outdoor venues telephones, television monitors, power and other press facilities are existing in the VMC.	-												
Standing Area in the Mixed Zone	Varies	Varies	Varies	-	An area for accredited press.	For outdoor venues, located near finish area or outrun of course area.	An open, corralled area.	Exceptions may exist at various venues.		I	F							R	IOC,IF	
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided												
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-												
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	Located along FOP.	60 cm wide x 90 cm deep per position, multi-row areas require 60 cm riser per row.	Power, Wireless and data cabling needed to photo positions on FOP.	J		I	J						R	IOC, IF	
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Normal seating areas.	-	Seating areas are generally not applicable for outdoor venues.	I	I	F							G	IOC	
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-												

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Security																				
Security Command Centre	120	1	120	145	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.												
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-												
Security Work Space	15	1	15	-	An area for additional security agencies.	-	-	-												
CCTV Surveillance & Video Desk	15	1	15	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-												
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.												
Radio Dispatch & Monitoring	15	1	15	-	An area for the monitoring and control of security communication and the distribution/return of security radios.	-	-	-												
Work Room	50	1	50	-	Open plan of work stations designated for security personnel.	-	-	-												
Secure Storage	10	1	10	-	An area for Security equipment storage.	-	Enclosed, secure space.	-												
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-												
Briefing and Break Area / Staging Area	140	1	140	170	Area for briefing workforce before and after shifts.	-	Enclosed space.	Assumes tent.												
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.												
Vehicle Screening & Sanitisation Area	569	1	569	800	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.												
Vehicle Queue	175	1	175	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-												
Oversized Vehicle Queue	140		140	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-												
Vehicle Sanitisation & Wanding Areas	150		75	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.												
Oversized Vehicle (Truck & Bus) Sanitisation	70		70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-												
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.												
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Enclosed space for staging and break.	-												
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the venue secure perimeter and/or venue screening area for constituents.	-	Dependent upon spectator capacity and venue design.												
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-												
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-												
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-												
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.												

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Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the venue secure perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.									G	P	
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the venue secure perimeter.	Enclosed space for screening/search area positions.. Net area for each screening position will accommodate the following: 4 Wanding Stations, OR - 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue. Dependent upon spectator capacity and venue design.											
Athlete / Team	18	1-2	18-36	36-72	-	BOH.	-	-	I			F						P	
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with Athlete and/or Olympic Family.	I			F						P	
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with TO, ENG and/or Press.	I		I	F						P	
Broadcast	18	1-2	18-36	45-90	-	BOH.	-	If possible, direct access from outside venue perimeter into Broadcast Compound.				F		I				R	IOC
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	BOH; located in close proximity to Venue Broadcast Compound.	-	-											
Press and Photographer	18	1-2	18-36	36-72	-	BOH; located in close proximity to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast).	If possible, direct access from outside venue perimeter into Venue Media Centre.				F						R	IOC
Workforce (Staff/Volunteer/Contractor/Vendor)	18	2-3	36-54	90-135	-	BOH or possibly FOH.	-	-				F						G	IOC
Spectator / Sponsors	18	Varies	Varies	54	-	FOH.	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-				F							P
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.											
Exception Gate	Varies	Varies	Varies	-	Access gate for designated accredited personnel.	FOH; located adjacent to primary spectator entrance.	Spectator exit gate may be utilised depending on venue layout.	Utilised only by authorised workforce.											
X-ray of bags	36	Varies	Varies	72 (each)	Device for screening bags/equipment coming into the venue.	FOH and BOH.	Covered.	-				I		F			G	P	
Venue Perimeter Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	Dependent upon spectator capacity and venue design.				F		I				P	
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	1m to 3m width, sometimes used as a secondary service vehicle exit point.	-											
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m each, number varies per concourse design.	-											
Workforce (Staff/Volunteer/Contractor/Vendor)	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	Size dependant upon total workforce numbers.											
Sponsor Services																			
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.				I		F				P	

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Sport Operations																			
Competition Management	50	1	50	65	A work area for sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located in Back of House, in close proximity to athlete area and FOP; may be co-located within the Venue Operations Centre (VOC).	Enclosed space.		I			F						P	
Competition Manager & Asst.Manager Desks	15	1	15	-	An area for the manager and assistant(s) manager.	-	-	-											
Assigned Work Space	10	1	10	-	Open plan of work stations designated for Sport personnel.	-	-	-											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Space	15	1	15	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-											
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-											
Sport Information	13	1	13	20	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located adjacent to athlete area.	Enclosed space with waiting area and seating.	Includes: information boards, pigeon holes, Info & Help Desk, work area, info terminal stations & storage.	J		J							R	IF
Results Posting Area	3	1	3	-	An area for posting race results.	Located adjacent to athlete area.	Area only.	-											
Athlete Lounge	140	1	140	180	An area where athletes, coaches, and service personnel can relax at the venue while not training or competing.	Located in athlete area.	Enclosed space.	Includes: seating area, lounge, Info & Help Desk, info terminal stations.	J		J							R	IF
Athlete Wax Cabins	67	Varies	Varies	120 (each)	Change-room facilities to accommodate athletes at the venue during competition and training; additionally, a separate area used by the service personnel and coaches for working on equipment and waxing skis.	Located in athlete area, adjacent to FOP.	Enclosed space; an area for placement of containers and/or trailers. Measurement for each cabin is 67m ² . Separate male and female facilities may be required.	Number of cabins will vary according to final team/athlete numbers. Assumes cabins/container units.	J		J							G	IF
Ski Technicians Area	20	1	20	25	An area used by ski technicians as a work area and lounge.	Located in Back of House, adjacent to technical equipment storage.	Enclosed space.	Assumes permanent or temporary structure.	J		J							G	IF
IF & Sport Meeting Room	100	1	100	150	Meeting facility at the venue for team captains and other sport related meeting needs.	Located in the competition management area.	-	Assumes container units or existing space.	J		J							R	IF
Sport Equipment Storage	60	1	60	70	Storage for athlete/team sport equipment.	Located in Athlete Wax Cabins.	See Athlete Wax Cabins for team storage and/or work area.	-	J		J	I						R	IF
FOP Equipment Storage Area	30	1	30	40	Storage of equipment required for utilised by sport in running competition.	Located in Back of House, adjacent to Field of Play or within close proximity.	Securable storage area for equipment (e.g. gates, rakes, shovels).	-	I		F	I						R	IF
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	Reference should be made to FIS guidelines for all technical specifications.	-											
FOP Surface Dimensions or Area	-	2	-	-	Normal and large ski jumping hills.	-	Start, jump, landing, finish areas. See ICR 411.2 for definition of hill sizes.	See FIS International Competition Rules (ICR) for all technical specifications.	F		I			I				R	IF
Total Required Dimensions or Area	-	-	-	-	-	-	-	-	F		I			I				R	IF
Surface	-	-	-	-	-	-	Snow, snow making facilities/equipment is obligatory.	See FIS International Competition Rules (ICR) for all technical specifications.	J		J	I						R	IF
Orientation	-	-	-	-	-	-	-	-	J		J	I	I					R	IF
Sports Lighting - Technical	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

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Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	-	Use ski jumping hills for warm-up/training.	-											
Coaches Platform	24	1	24		An area for coaches to observe competing athletes.	Located midway down the FOP, near Judges Tower area.	Area only; raised and level platform.	-	J	J						J	G	IF	
Camera Positions	-	-	-	-	-	-	-	FIS Input required for all camera positions due to safety reasons.	J	J							P	IF	
IF / Team	10	1	10		-	Located in FOP position.	Pole-mounted or tripod-mounted cameras.	-											
Biomechanics	10	1	10		-	Located in FOP position.	Pole-mounted or tripod-mounted cameras.	-											
Athlete / Team Seating	-	-	-	-	A designated seating area for athletes.	-	-	-	J	I	J								
Same Sport	-	Varies	-	-	-	-	-	-	J	I	J						R	IOC,IF	
Different Sport	-	Varies	-	-	-	-	-	-	I	I	F						R	IOC	
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	May be required for Sport workforce use. Quantity varies according to athlete numbers.										P	
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	Required if FOP is not located near athlete area.	Assumes temporary units. Quantity varies according to athlete numbers.				F						P	
International Federation																			
IF Area	90	1	90	135	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located in the Back of House, within the competition management area and in close proximity to athlete areas.	Enclosed space.	Assumes container units or existing space.	I	I	F							R	IF
IF President's Office	15	1	15	-	An office area for IF President.	-	Enclosed space.	Assumes container units or existing space.	I	I	F							R	IF
IF Secretary-General/Executive Director Office	15	1	15	-	-	-	-	Assumes container units or existing space.	I	I	F							G	IF
Reception, Secretariat, Waiting & Work Space	40	1	40	-	-	-	-	-	I	F								G	IF
IF Meeting Room	-	-	-	-	-	-	See IF & Sport Meeting Room.	-											
Jury Room	15	1	15	20	This space is utilised for jury meetings during training and competition days and the resolution of protests and appeals after competition.	Located in the Back of House, within the competition management area and in close proximity to athlete areas.	Enclosed space.	Assumes container units or existing space.	I		F							R	IF
Video Room	10	1	10	15	Area utilised by technical officials for video reviews of competition.	Located in Back of House, adjacent to Jury Room.	Enclosed space.	Assumes container units or existing space.											
Lounge - International Technical Officials	15	1	15	20	A rest area for officials.	In close proximity to FOP.	Enclosed space.	Assumes container units or existing space.	J		J							G	IF
Seeding / Draw Room	-	-	-	-	Area for meetings involving coaches and team officials.	IF & Sport Meeting Room.	See IF & Sport Meeting Room.	-											
Technical Information Centre	10	1	10	15	An area for distributing information to officials and competition management.	-	Recommend to combine with Sport Information area.	-											
Judges Tower	3 x 3	1	9	12	Platform/tower for judges to observe competition.	Located along FOP.	-	-	J		J						J	P	IF
Officials Locker Room, Shower, Toilet	20	1	20	25	Change-room for officials.	Located in Back of House, in close proximity to FOP.	-	Assumes container units or existing space. Separate men and women lockers may be necessary.	I		F							R	IF
Race Directors/Technical Delegates Office/Work Space	15	1	15	20	Office area for Technical Delegates.	In close proximity to IF President office area.	Enclosed space.	Assumes container units or existing space.	I	I	F							R	IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I	J	J							R	IOC,IF
Sport Presentation																			
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.											
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-											P
Announcer Position	3	1	3	-	-	-	-	-											P
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space, consisting of work area, green room, entertainer staging and dressing and prop storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.											P

SKI JUMPING / NORDIC COMBINED

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision, F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Technology Operations																				
Technology Help Desk	20	1	20	24	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support workforce & manager.	The Help Desk and LAN Management may share a common space if necessary (e.g. when rooms or space are limited).										P		
Venue Technology Operations (VTO)	35	1	35	40	OCOG Technology Operations area. Operational work space for entire Venue Technology team, .	Adjacent to or within Venue Operations Centre (VOC).	Medium Security - lockable room. Air-conditioned office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	No specific spaces for partners and contractors. Time and Scoring partner (e.g. OMEGA) will use the OVR room. When not in direct operation, partner technicians can stand-by in the Technicians Intervention room.									G	P		
Technicians Intervention Room	35	1	35	40	A stand-by area for partner technicians when not in direct operation.	Located in close proximity to the VTO.	Enclosed space. Table and chairs. Shared area, separate desks not necessary.	-										G	P	
Radio Distribution Room (RDR)	30	1	30	18	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E and workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).	I			F							P	
Information Technology																				
Computer Equipment Room (CER)	15	1	15	25	Area for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room.	High Security - lockable room. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	The TER and CER may share a common space if necessary (e.g. when rooms or space are limited). Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.	I			F						G	P	
Data Local Area Network (LAN) Management Room & Store	30	1	30	35	LAN monitoring room & associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational workforce & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces. The Help Desk and LAN Management may share a common space if necessary (e.g. when rooms or space are limited).										G	P	

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Telecommunication & Audio Visual																			
Telecomm. Equipment Room (TER) Primary	45	1	45	50	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room.	High Security - lockable room. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	The TER and CER may share a common space if necessary (e.g. when rooms or space are limited). Raised flooring is preferable for cabling distribution, but not essential.		I		F						P	
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER.	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.		I		F						P	
Audio Control Positions	-	-	-	-	-	-	-	-				F					G	P	
Venue	4	1	4	8	Area for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Presentation. Can be on FOP, in stands or in a booth with view to FOP.	High Security-lockable room. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	-											
Press Conference	4	1	4	8	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), HVAC, weatherproof. Work space & FF&E for operator.	-											
Athletes Briefing	2	1	2	4	PA systems required for to facilitate announcements to athletes. Space required for amplifier/microphone.	Within briefing room/area for athletes.	Standard/mains power & FF&E.	-											
International Federation Area	2	1	2	4	PA systems required for Federation Area. Space required for amplifier/microphone.	Location as required by Sport/International Federation.	Standard/mains power & FF&E.	-											
Warm-Up Area	2	1	2	4	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Located in athlete warm-up area.	Standard/mains power & FF&E.	-											
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-											
Workforce Break/Dining	2	Varies	Varies	-	Area within break/dining area where audio control equipment is installed to facilitate meetings/training of large numbers of workforce.	Workforce break/dining areas.	Standard/mains power & FF&E.	-											
Video Board Control	10	1	10	12	Area of video control for video board or video projection system. Operations integral with those of Sport Presentation.	Located within Sport Presentation area. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	-				F					G	P	
Wired Communications Control	5	1	5	8	Area of wired communications master control station and support technician. System essential to operations of both Sport Presentation and Results/FOP management.	Located near or within Sport Presentation is recommended. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location is located outdoors. Good cable access to FOP, OVR Room, Sport Presentation, Broadcast Graphics Room & Results Printing required.	-				F					G	P	

SKI JUMPING / NORDIC COMBINED

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Timing, Scoring and Results Operations																				
Timing and Scoring Position	-	-	-	-	Area(s) for event timing & scoring personnel & equipment during competition.	Located adjacent and/or close to FOP.	High Security Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards, speed guns & OVR room. Space & FF&E for operators and equipment.	Where timing and scoring take place outdoors, adequate weather (rain/sun/snow) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, OMEGA	
Control Room	20	1	20	25	Area for central Timing & Scoring control operations, including Backup C system, Event Management & photo-finish system.	Located near finish area with view to FOP.	Cable access to OVR Room, Photo Finish Control & Intermediate Positions along course.	-												
On Venue Results (OVR)	-	-	-	-	Area is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	-	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Adequate space and FF&E for high density of computer workstations, racks for servers and working space for technicians, operators, and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or where two sports occur concurrently will require more space for additional OVR equipment.				I	F					P	IF, OMEGA	
OVR Provider Work Space	20	1	20	25	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO, CIS, PRD, etc.).	Ideally adjacent to IT provider work area.	-	-												
IT Provider Work Space	20	1	20	25	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-												
Scoreboard Control	-	-	-	-	Area for scoreboard control operations. Operations integral with those of Sport Presentation, data provided from OVR System. Space for both Control and Interface workstations & 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Adequate space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.										G	P	IF, OMEGA
Scoreboard Control	10	1	10	12	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator & workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-												
Scoreboard Interface	4	1	4	6	Area for interface equipment (PC workstations) linking OVR system & Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-												

SKI JUMPING / NORDIC COMBINED

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Results Printing (PRD)	Varies	1	Varies	-	Area for hard copy results production & distribution. Location of high intensity work involving many workforce preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area, room for Print Distribution Workstation (IDS interface) equipment and operator.	Located adjacent or in close proximity to Press Workroom. Easy access to Press Tribunes, Broadcast Commentary positions, Sport Information, Doping and Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specifications. Adequate space for interface equipment and graphics operators and good cable access to OVR room. Adequate space for staff and FF&E required for operational staff as well as 1 pallet of paper to support print/copy operations.		I	I	I	F					I	R	IF
TV Graphics Interface	6	1	6	9	Area where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operations and good cable access to OVR room.					I					F	G	P
Technology Storage																			
Technology General Storage	60	1	60	75	Area for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.					F					G	P
Timing and Scoring Storage & Workshop	20-30	1	20-30	25-35	In venue storage & workshop for timing equipment, spare parts & small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.			I		F						G	P
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required to distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closets.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Workroom.	High Security - lockable and weatherproof. May require fan or dedicated A/C depending on room location and/or configuration. Fully redundant power (mains and generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.		I		F							P
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of power from data/voice and audio-visual cabling.	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in a manner which allows for easy access and repair/replacement. Legacy installations should be installed as permanent while temporary (overlay) should be installed using methods which are easily installed and removed minimising potential damage to the existing structure or venue.					F						P
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.														
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.														
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.														
CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.														

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Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	-												
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-												
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-												
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-												
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-												
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-												
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing and Scoring/OVR contractor.		I		F							P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cablings) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.												
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.		I		F							P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the video board. Required for outdoor venues where the video boards cannot be suspended from ceiling structure.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cablings) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each video board.												
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Presentation on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.		I		F						G	P	
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to/from audio/PA amplification system and/or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.												
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cablings) required to suspend PA speakers from venue ceiling structure.	-	-	-												
Mobile Phone Infrastructure (antenna)	15	1	15	25	Infrastructure required to support installation of additional radio antenna & mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to/from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.		I		F						G	P	

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Ticketing																			
Ticket Box Office	40	1	40	100	An area at the venue where Olympic tickets are sold.	Located in Front of House, adjacent to the secure perimeter; near the spectator entry point of the venue.	Gross area includes internal & external queue.	Assumes container unit with disabled access to internal and external service window. Dependant upon venue layout and footprint, spectator access point locations.											P
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	15	1	15	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s) & Will Call	15	1	15	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	25	1	25	50	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.											P
Driver Staging	80	1	80	150	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.											P
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside venue secure perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	20	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-											P
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from Host City, based on vehicle/bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J							I	P
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J							I	P
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F							P
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.							F		I		G IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.							F				G IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.	I		F								G IOC
Spectator and Workforce Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.							F				P
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F							P
Accessible	-	-	-	-	-	-	-	Part of Spectator total.							F				P
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Area only. Surface areas paved or gravel/hard pack surface.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have drop-off in close proximity to accredited entry point and then driver will park.			I	F							P
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.							F		I		P
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.							F		I		P
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-			J	J							P
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes vehicle circulation.							F		I		P
Emergency Services	-	-	-	50 (each)	-	Generally located inside the secure venue perimeter.	-	Includes vehicle circulation.							F		I		P
Vehicle Chain-up Area	-	-	-	700	Area that vehicles (cars, buses, etc.) use to install chains onto vehicle tires.	Located along venue access road.	-	Required only for mountain venues in which the access road has slope exceeding an 8% grade on gravel surface or 10% grade on paved road surface. May be dependent upon local legislation and/or requirements.							F		I		P

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Venue Development																			
Site Management Compound	503	1	503	650	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Gross area includes snow removal access. Dependent upon venue footprint, extent of temporary works and number of contractors.										P	
Site Management Area	60	1	60	-			Enclosed space.	Assumes container unit/trailer or tent.											
Site Manager & Assistant Site Manager(s) Work Space	12	1	12	-	Work and meeting area for the Site Manager and additional staff.														
Site Administration Desk & Work Space	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.														
Response Team & Vendor Staging	24	1	24	-	On-site permanent and temporary facilities for specialty workforce and general labor crew to be on-call.														
Secure Storage - Site Management	12	1	12	-	Area for storage.														
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.		Enclosed space. Area for office, staging and a secure storage area.	Assumes container unit/trailer or tent. Contractor usually installs container units at their own cost.											
Sign/Look Staging, Work Space/Secure Storage	50	1	50	-	Area for holding, sorting, repairing of event signs, look materials and tools.			Assumes container unit/trailer or tent.											
Material Warehouse/Construction Work Space	80	1	80	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.		Enclosed space. Area for carpentry, painting and general construction. Storage for non-weather proof materials.	Assumes tent or canopy with 2 side walls.											
Vendor Secure Storage	60	1	60	-	Area for containers, usually provided by the various temporary construction sub-contractors.		Enclosed space.	Assumes container unit/trailer or tent or existing space.											
Materials Staging Area	50	1	50	-	Area for the off-loading and loading of bulk construction materials.		Area only.												
Exterior Storage Area	50	1	50	-	Outdoor storage of material and products.		Area only.	Weatherproof area for large and bulk materials.											
Vehicle Staging	90	1	90	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.		Area only.	Service, Repair & Specialty vehicles.											
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.			Assumes temporary units. Accessible toilet facilities should be provided.											
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.		I		F							P
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.			I		F							P
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.		I		F							P
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.		Generators also provide primary source of power to one half of the FOP lighting.											
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.													

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Venue Management																			
Venue Operations Centre (VOC)	60	1	60	90	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Dependent upon venue capacity and venue layout.										P	
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-											
Assigned Desks	20	1	20	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Space and Storage	18	1	18	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	40	1	40	50	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.										P	
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	24	1	24	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	-											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	150	1	150	180	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre or in close proximity to VOC.	Enclosed space.	Assumes existing space or tent. Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.										P	
Snow Removal Compound	-	-	-	-	A service area where the snow removal contractor operates at the venue and performs the snow removal.	Located in the BOH area; adjacent to or within the Logistics or Waste Management compounds.	-	-											
Equipment Storage	15	1	15	-	Area for storage of snow removal equipment.	-	May require covered and enclosure.	-											
Truck & Equipment Staging	50	Varies	Varies	-	Area for staging of snow removal vehicles and equipment	-	May require covered and enclosure.	Number required may vary according to layout and/or size of venue.											
Supply Storage Area	50	Varies	Varies	-	Area for storage of supplies that may be required for snow removal (i.e. salt).	-	May require covered and enclosure.	Number required may vary according to layout and/or size of venue.											
Snow Storage / Removal Area	-	-	-	200-2000	An area or location where snow can be stored after it is removed from operational areas of the venue.	Located outside of operational areas of the venue.	Area only for dumping of snow removed areas of the venue. May require multiple locations that may exist off venue or outside the venue perimeter.	Area requirements will be based on size of venue. Snow removal may require hauling/transport to off venue location.											
Workforce																			
Workforce Area	150	1	150	180	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.										P	
Check-In Area	96	1	96	-	Area to log-in venue workforce and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Space	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	335	1	335	400	The space where workforce meals are served and where workforce can break during shifts.	A location that will provide easy access to all venue workforce for breaks and meals; will vary according to venue layout/distances.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon venue workforce numbers.										P	
END OF DOCUMENT																			

Space (Sub-space(s))	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation				
Accreditation																							
Venue Accreditation Office	50	1	50	125	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space. Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.											P				
Day Pass Issue & Problem Resolution Desk	15	1	15	-																			
Work Space	15	1	15	-																			
Manager Desk or Office & Storage	12	1	12	-																			
Waiting Area	8	1	8	-																			
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	Located in the Back of House area, on the perimeter of an accredited area and/or entry.	Enclosed space. May be required in venues which have large distances between accredited entrances, generally over 300m.	Located in temporary structure. Assumes container/trailer unit or tent.					F						P				
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.															
Broadcast																							
Broadcast Compound	-	1	-	5000	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, normally in the Back of House area, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements. Gross area includes snow removal access.											R	IOC			
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.												G	IOC		
Broadcast Manager Office	12	1	12	-	-	-	-	-															
Work Room, Assigned & Unassigned Desks	48	1	48	-	-	-	-	-															
Technical Operations centre	40	1	40	100	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.												R	IOC		
Broadcast Catering	140	1	140	180	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	-															
Kitchen & Prep	20	1	20	-	-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.															
Buffet Line & Dining	120	1	120	-	-	-	-	Located in temporary structure. Assumes container/trailer unit or tent.															
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements.															
Work Space(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-															
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters.															
Work Space(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.															
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-															
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.															
Toilets	1.5	8	12	36	-	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.															
Secondary Broadcast Compound	-	-	-	230	Serves as a secondary unit to the main compound to house various broadcast technical needs that are required for Broadcast to cover the full competition FOP or area.	Located adjacent to FOP.	Area only. Required on venues where size of FOP or location of Primary Compound exceeds cabling capabilities.	Specific elements are venue/sport specific.												R	IOC		
Toilets	1.5	2	3	-	Toilet units designated for broadcast personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.															
Commentator Control Room (CCR)	10	1	10	15	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in Back of House area, in close proximity to commentator position area.	Enclosed space with incoming television cable.	Assumes existing space or container unit.												R	IOC		
Broadcast Information Office (BIO)	20	1	20	25	Space for broadcast management and team meetings.	Back of House area; located near commentator positions and CCR.	Enclosed space.	Assumes existing space or container unit.												R	IOC		
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-												G	IOC		
Pre & Post Competition Interview Area	9	1	9	9	An area for rightsholders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J									R	IOC		

SNOWBOARD

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Mixed Zone	50	1	50	100	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Located in the Back of House, adjacent to the FOP.	<u>Gross area</u> includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I	I	J							R	IOC, IF
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in cabins and/or container units with view to FOP and finish areas.	Each position = <u>2m x 2m (4m²)</u> , this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	Commentator positions at outdoor venues are normally located in temporary cabin/container/trailer units.			I	J						R	IOC
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	-	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	-			I	J							
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions.	1 position = uses 1 seat in existing seating bowls.	-			I	J						R	IOC
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval.	J		I	J						R	IOC
Camera Position - Other	4	35	140	315	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	-	I		I	J						R	IOC
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-					J	I				G	IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	See also Technology requirements.					J	I				G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in Back of House areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.					J	I				G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography	J			J	I					R	IOC
Catering																			
Catering Compound	565	1	565	1020	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity. Gross area includes snow removal access.		I		F						P	
Work Spaces - Catering Management	28	1	28	-	Operational work space(s).	Located in Back of House area.	Enclosed space.	Assumes existing space or container.											
Organising Committee Catering Manager	-	-	-	-	-	Located in Venue Operations Centre.	See Venue Management - VOC.	-											
Catering Contractor	16	1	16	-	-	-	-	-											
Beverage Contractor	12	1	12	-	-	-	-	-											
Dry, Cold and Ice Storage	38	6	228	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.											
Vehicle Staging	90	1	90	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-											
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-											
Kitchen and Preparation Area	80	1	80	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.											
Uncovered Storage	75	1	75	-	Outdoor storage of material and products.	-	Area only.	-											
Toilets	1.5	2	3	-	Toilet units designated for catering personnel.	-	-	Assumes temporary units. Accessible toilets should be provided.											
Hand Wash Station	1	1	1	-	Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	Chemical or plumbed unit.	-											
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary).	Located in the Front of House, in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container's). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity and level of catering activity.	I		F							P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	The temporary holding and distribution of potable water in accordance with local health code standards.	Located in the Front House area, adjacent to spectator points of sale.	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	Located in the Front House area, adjacent to spectator points of sale.	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Outlets' Look	-	-	-	-	-	-	See Look for details.	-	I		F							P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Ceremonies																				
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-											P	
Ceremonies Staging	36	1	36	45	Area to coordinate ceremonies; e.g. podium, procession, recession route and flags. .	Adjacent to or close to FOP.	Consists of coordinator work space with area for anthem storage, secure storage, preparation and dressing area; see below for additional details.	Assumes existing space or container.											P	
Manager Desk	6	1	6	-	Workspace for Manager.	-	-	-												
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.												
Presenters, Medal/Flower staging, Secure medal and flag storage	22	1	22	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format. Medals storage is not required for those venues where the medal ceremony will take place at another location.												
Presenter Preparation and Dressing	4	2	8	-	A dressing and preparation area for Presenters.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-												
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	Close to FOP.	Limited use, may be shared with other space. See Sport Presentation.	-		I		F							P	
Awards Podium Storage	12	1	12	15	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	-			I	F							P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.	I		J	J						G	R	IOC
Cleaning and Waste																				
Cleaning & Waste Compound	252	1	252	420	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House (BOH) area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependant upon venue capacity. Gross area includes snow removal access.											P	
Vehicle Staging	72	1	72	-	Parking area for collection vehicles which generally remain inside the venue.	BOH	Area only.	-												
Sorting Area	72	1	72	-	Area for sorting waste.	BOH	Area only.	-												
Waste & Recycle Containers	15	4	60	-	Area in front of waste and recycle bins where material is separated for containment.	BOH	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).												
Compactor Unit	25	Varies	Varies	-	-	BOH	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.												
Equipment Supply & Storage	15	2	30	-	Space for cleaning equipment and paper product.	BOH	Enclosed space.	Assumes container unit.												
Contractor Office	18	1	18	-	Space for management and workforce staging.	BOH	Enclosed space.	-												
Doping Control																				
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	-	J		J	J							R	IOC
Waiting Area/Reception	26	1	26	30	Area where athletes check-in and wait prior to testing.	-	-	-												
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Blood Processing Room(s)	15	Varies	Varies	20 (each)	Area where athlete blood samples are provided and sealed	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer. Wash basin for hand sanitisation.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).												
Office / Storage	12	1	12	15	Work and storage space for Doping Manager.	-	Enclosed space. Secure storage.	-												
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-	I		J	J							R	IOC

Space <small>Sub-space(s)</small>	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.					F					P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of workforce pre-shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.					F					P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.					F					P	
Information Desk	-	-	-	-	-	-	-	-											
Lost and Found	-	-	-	-	A holding area for items found in the venue.	-	-	-											
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spectators.	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	-	-	Will depend on level of service at venue.					F					P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes; located between screening/search area and spectator plaza.	Total number generally 50% of security screening positions.					F					P	
Stroller Storage	Varies	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	In close proximity to seating area.	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.					F					P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.					F					P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators					F					P	
Spectator Shade and Shelter	Varies	Varies	Varies	72 (each)	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and spectator service amenities.	Covered area. 1m ² per person.	Quantity determined by climate and competition schedule; can pertain to indoor venues with long walk-ups from transport drop zone. Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.					F					P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-					F					P	
Spectator Toilets	1.5	Varies	Varies	5 (each) 6 (per 20 toilets)	Toilet units designated for spectators.	Located in FOH, close proximity to seating and spectator amenities.	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.					F					P	
Hand Wash Stations	1	Varies	Varies	6 (per 20 toilets)	A chemical unit used in the absence of potable water	Located in FOH, close proximity to seating and spectator amenities.	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.					F					P	

SNOWBOARD

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Finance																			
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I		F						P	
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Located in Front of House, both inside venue perimeter and outside venue perimeter.	Area only.	Quantity dependent upon venue capacity.		I		F						P	
Language Services																			
Work Space / Desk	20	1	20	25	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre (VOC).	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-		J	J			I				G	IOC
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference ne-	-		J	J			I				G	IOC
Logistics																			
Logistics Compound	-	1	-	780	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access.					F					P	
Logistics Centre	60	1	60	-	-	-	Enclosed space.	Assumes container units or tent.											
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-											
Team Staging/Work Space	33	1	33	-	Space for staging and a work area.	-	-	-											
Secure Storage & Equipment Sign-out	15	1	15	-	Area for storage.	-	Storage for tools.	-											
Warehouse Storage	90	1	90	-	Storage area for furniture, fixtures, and equipment (F	-	Enclosed space.	Assumes tent											
Storage Yard	75	1	75	-	Outside storage area within compound.	-	Area only.	-											
Vehicle Staging	100	1	100	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-											
Fuel Tank(s)	9	Varies	Varies	25 (each)	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.											
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.											
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.											
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.											
Material Transfer Area (MTA)	-	1	-	575	Generally for deliveries to the venue that may take place after hours or not within the logistics delivery window period.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Area only. Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.					F					P	
X-Ray Area	36	1	36	72	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.											

SNOWBOARD

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Look of the Games																				
Work Space and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.										P		
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J						J	R	IOC	
National Olympic Committee (NOC) Flags	Varies	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events) and competition format.	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.		J	J						J	R	IOC	
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and Back of House locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J					J	G	R,P	IOC, IF
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals. Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.		I	J	J					J	G	R	IOC, L
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH)	Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.		I	J	J					J	G	R	IOC, L
Backdrop - Press Conference Room	2.2 x 6	1	2.2 x 6	-	Look item for Press Conference behind the dais.	Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F		I	I					
Outlets' Look	-	-	-	-	Look required for concessionaire units.	Located in FOH.	Venue catering and merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-	I			F							P	
Medical Services																				
Athlete Medical	65	1	65	100	An area where Medical provides services to athletes competing at the venue.	Located in Back of House within the accredited athlete area.	Enclosed space.	Assumes container or existing space.	J	J	J							R	IF	
Reception & Waiting	12	1	12	-	Area where athletes check-in and wait prior to examination.	-	-	-												
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-												
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-												
Physiotherapy Area(s)	8	2	16	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-												
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J							S	IF	
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.												
Spectator Medical	50	1	50	100	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed space. 1 per 20,000 spectators.	Assumes container unit or existing space.		I	F	I							P	
Reception & Waiting	12	1	12	-	Area where spectators check-in and wait prior to examination.	-	-	-												
Medical Work Space & Secure Storage	12	1	12	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-												
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-												
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.												
Triage Station	36	1	38	72	Additional space to treat minor medical needs of spectators.	Located in the Front of House.	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.		I	F	I							P	
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only. For Winter Games, the ambulances may need heated shelters or access to electrical outlets for block heaters and protection from snow and ice.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.					F	I				P		
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Area only. Paved, graveled or grass area with fence, barricade or rope enclosure.	-				F	I					P		

SNOWBOARD

Principles of Stakeholder
Involvement:
I-Input, J-Joint Decision,
F-Final Decision

Space <small>Sub-space(s)</small>	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Merchandise																				
Office, Cash Room & Work Space	12	1	12	15	An area to manage the retailing of all Olympic merchandise inside the venue.	-	Enclosed space with secure entry.	Assumes container unit or existing space.				F						P		
Storage	15	2	30	35	-	-	-	Assumes storage containers or existing space.				F						P		
Program Sales Stands/Booths	1	1	1	2	-	-	Area only.	Units provided by vendor. Quantity and location decided by vendor and OCOG.				F						P		
Merchandise Points of Sale (POS)	6	Varies	Varies	18 (each)	Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.	Gross area is per each P.O.S. and includes service area and queue.		I		F						P		
Outlets' Look	-	-	-	-	-	-	See Look for details.	-		I	J	J						G	R	IOC
Olympic Family Services																				
Olympic Family Lounge	240	1	240	500	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes tent.	I		I	F						G	G	IOC
Welcome Desk and Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-	-												
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.	-												
Workforce/Volunteer Room and Storage	12	1	12	-	On-call waiting area for Protocol workforce and equipment storage.	-	-	-												
Dining and Lounge	140	1	140	-	Area for dining and lounge.	-	-	-												
Preparation/Buffer set-up/Beverage Area	70	1	70	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Workforce/Volunteer, Athlete, Media)	-												
Toilets	30	1	30	60	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	4 female, 4 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided												
Protocol flags	-	-	-	-	-	-	See Look of the Games.	-			J	J							R	IOC

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Press Operations																			
Venue Media Centre (VMC)	760	1	760	1010	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Conference Room and Photo Positions.	Close proximity to Press Conference Room and Mixed Zone area.	Enclosed space for press and photographers.	Assumes tent.										R	IOC
Reception & Information Desk	25	1	25	-	Welcome desk at the entrance, for information distribution.	-	-	-											
Storage	10	1	10	-	Equipment storage.	-	-	-											
Press Manager Office	15	1	15	-	Operational work space.	-	-	-											
Photo Manager Office	15	1	15	-	Operational work space.	-	-	-											
IF Media Office	15	1	15	-	Operational work space.	-	-	-											
Olympic News Service (ONS) Work Room or Area	30	1	30	-	Operational work space.	-	Enclosed space.	-											
Info Stations	28	1	28	-	Computer stations and printers.	-	-	-											
Press Work Room or Area	300	1	300	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.											
Photo Work Room or Area	120	1	120	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.	-											
Photographers Check-in & Photo Bib Distribution	20	1	20	-	Area where photographers register and receive/return photo bibs.	-	-	-											
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.											
Lounge/Catering Preparation	170	1	170	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-	-											
Toilets	1.5	8	12	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided											
Press Conference Room	200	1	200	300	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I			F						R	IOC
Seating Area	160	1	160	-	An area for accredited press.	-	Seats and standing room.	-											
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3.6 m table, 8 chairs & step and repeat backdrop.	-											
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-											
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-											
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-				F			I	I			
Mixed Zone	160	1	160	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I		I	F						R	IOC,IF
Press Tribune	-	-	-	-	A section of the standing in the Mixed Zone area (outdoor venues) and of the seating (indoor venues) dedicated to accredited journalists and photographers.	-	For outdoor venues telephones, television monitors, power and other press facilities are existing in the VMC.	-											
Standing Area in the Mixed Zone	Varies	Varies	Varies	-	An area for accredited press.	For outdoor venues, located near finish area or outrun of course area.	An open, corralled area.	Exceptions may exist at various venues.			I	F						R	IOC,IF
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided											
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-											
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	Located along FOP.	60 cm wide x 90 cm deep per position, multi-row areas require 60 cm riser per row.	Power, Wireless and data cabling needed to photo positions on FOP.	J		I	J						R	IOC, IF
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Normal seating areas.	-	Seating areas are generally not applicable for outdoor venues.	I		I	F						G	IOC
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

SNOWBOARD

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Security																			
Security Command Centre	120	1	120	145	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.											
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-											
Security Work Space	15	1	15	-	An area for additional security agencies.	-	-	-											
CCTV Surveillance & Video Desk	15	1	15	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-											
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.											
Radio Dispatch & Monitoring	15	1	15	-	An area for the monitoring and control of security communication and the distribution/return of security radios.	-	-	-											
Work Room	50	1	50	-	Open plan of work stations designated for security personnel.	-	-	-											
Secure Storage	10	1	10	-	An area for Security equipment storage.	-	Enclosed, secure space.	-											
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-											
Briefing and Break Area / Staging Area	140	1	140	170	Area for briefing workforce before and after shifts.	-	Enclosed space.	Assumes tent.											
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.											
Vehicle Screening & Sanitisation Area	569	1	569	800	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.											
Vehicle Queue	175	1	175	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-											
Oversized Vehicle Queue	140		140	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-											
Vehicle Sanitisation & Wanding Areas	150		75	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.											
Oversized Vehicle (Truck & Bus) Sanitisation	70		70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-											
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.											
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Enclosed space for staging and break.	-											
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the venue secure perimeter and/or venue screening area for constituents.	-	Dependent upon spectator capacity and venue design.											
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-											
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-											
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-											
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.											

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	BOH.	Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.										G	P	
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	BOH.	Enclosed space for screening/search area positions. Net area for each screening position will accommodate the following: 4 Wanding Stations, OR - 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue. Dependent upon spectator capacity and venue design.												
Athlete / Team	18	1-2	18-36	36-72	-	BOH.	-	-	I			F								P
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with Athlete and/or Olympic Family.	I			F								P
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with TO, ENG and/or Press.	I		I	F								P
Broadcast	18	1-2	18-36	45-90	-	BOH.	-	If possible, direct access from outside venue perimeter into Broadcast Compound.				F		I					R	IOC
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	BOH; located in close proximity to Venue Broadcast Compound.	-	-												
Press and Photographer	18	1-2	18-36	36-72	-	BOH; located in close proximity to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast).	If possible, direct access from outside venue perimeter into Venue Media Centre.					F						R	IOC
Workforce (Staff/Volunteer/Contractor/Vendor)	18	2-3	36-54	90-135	-	BOH or possibly FOH.	-	-					F						G	IOC
Spectator / Sponsors	18	Varies	Varies	54	-	FOH.	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-					F							P
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.												
Exception Gate	Varies	Varies	Varies	-	Access gate for designated accredited personnel.	FOH; located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.												
X-ray of bags	36	Varies	Varies	72 (each)	Device for screening bags/equipment coming into the venue.	FOH and BOH.	Covered.	-				I		F				G	P	
Venue Perimeter Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	Dependent upon spectator capacity and venue design.					F		I					P
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	1m to 3m width, sometimes used as a secondary service vehicle exit point.	-												
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m each, number varies per concourse design.	-												
Workforce (Staff/Volunteer/Contractor/Vendor)	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	Size dependant upon total workforce numbers.												
Sponsor Services																				
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.					I		F					P

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Sport Operations																			
Competition Management	50	1	50	65	A work area for sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located in Back of House, in close proximity to athlete area and FOP; may be co-located within the Venue Operations Centre (VOC).	Enclosed space.		I			F						P	
Competition Manager & Asst. Manager Desks	15	1	15	-	An area for the manager and assistant(s) manager.	-	-	-											
Assigned Work Space	10	1	10	-	Open plan of work stations designated for Sport personnel.	-	-	-											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Space	15	1	15	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-											
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-											
Sport Information	13	1	13	20	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located adjacent to athlete area.	Enclosed space with waiting area and seating.	Includes: information boards, pigeon holes, Info & Help Desk, work area, info terminal stations & storage.	J			J						R	IF
Results Posting Area	3	1	3	-	An area for posting competition results.	Located adjacent to athlete area.	Area only.	-											
Athlete Lounge	140	1	140	180	An area where athletes, coaches and service personnel can relax at the venue while not training or competing.	Located in athlete area or in close proximity.	Enclosed space.	Includes: seating area, lounge, Info & Help Desk, info terminal stations.	J			J						R	IF
Athlete Wax Cabins	Varies	Varies	Varies		Change-room facilities to accommodate athletes at the venue during competition and training; additionally, a separate area used by the service personnel and coaches for working on equipment and waxing skis.	Located in athlete area, adjacent to FOP.	Enclosed space; an area for placement of containers and/or trailers. Measurement for each cabin is 67m ² .	Number of cabins will vary according to final team/athlete numbers. Assumes cabins/container units.	J			J						G	IF
Ski Manufacturer Cabin	35	Varies	35		An area where ski equipment manufacturers provide services to athletes.	Located in the Back of House, in close proximity to Athlete areas.	Enclosed space; an area for placement of containers and/or trailers.	Number will vary according to number of manufacturer requests. Assumes cabins/container units.	J			J						G	IF
IF & Sport Meeting Room	100	1	100	150	Meeting facility at the venue for team captains and other sport related meeting needs.	Located in the competition management area.	-	Assumes container units or existing space.	J			J						R	IF
Sport Equipment Storage	60	1	60	90	Storage for athlete/team sport equipment.	Located in athlete areas.	Enclosed, secure space.	-	J			J	I					R	IF
FOP Equipment Storage Area	30	1	30	40	Storage of equipment required for utilised by sport in running competition.	Located in Back of House, adjacent to Field of Play or within close proximity.	Securable storage area for equipment (e.g. gates, rakes, shovels).	-	I			F	I					R	IF
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	-	Reference should be made to FIS guidelines for all technical specifications.											
FOP Surface Dimensions or Area	-	-	-	-	-	-	-	See FIS International Competition Rules (ICR) for all technical specifications.	F			I		I				R	IF
Halfpipe	-	-	-	-	-	-	-	-											
Parallel GS	-	-	-	-	-	-	-	-											
Snowboardcross	-	-	-	-	-	-	-	-											
Surface	-	-	-	-	-	-	Snow, snow making facilities/equipment is obligatory.	See FIS International Competition Rules (ICR) for all technical specifications.	J			J	I					R	IF
Orientation	-	-	-	-	-	-	See FIS International Competition Rules (ICR) for all technical specifications.	-	J			J	I	I				R	IF

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Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	-	-	-												
Warm-up Surface Dimensions or Area	-	-	-	-	-	-	See FIS International Competition Rules (ICR) for all technical specifications.	-	J		J							R	IF	
Halfpipe	-	-	-	-	-	-	-	-												
Parallel GS	-	-	-	-	-	-	-	-												
Snowboardcross	-	-	-	-	-	-	-	-												
Surface	-	-	-	-	-	-	Snow, snow making facilities/equipment is obligatory.	See FIS International Competition Rules (ICR) for all technical specifications.	J		J	I						R	IF	
Orientation	-	-	-	-	-	-	-	-	I		F	I						R	IF	
Athlete Staging Tent	-	-	-	-	Area where athletes assemble prior to starting the race.	Located in close proximity to starting hut.	Enclosed space.	Assumes tent.	I		F							R	IF	
Parallel GS	20	1	20	30	-	-	-	-												
Start Tent or Hut	20	1	20	30	Area where athletes start the race,	Located at the official course start line; top of course/FOP.	Enclosed area. Required for both men and women's course start areas.	May be temporary or existing structure.												
FOP Workforce Warming/Waiting Tent	20	1	20	-	-	-	-	Assumes tent.												
Camera Positions	-	-	-	-	-	-	-	FIS Input required for all camera positions due to safety reasons.	J		J							P	IF	
IF / Team	10	1	10	-	-	Located in FOP position.	Pole-mounted or tripod-mounted cameras.	-												
Biomechanics	10	1	10	-	-	Located in FOP position.	Pole-mounted or tripod-mounted cameras.	-												
Athlete / Team Seating	-	-	-	-	A designated seating area for athletes.	-	-	-	J		I	J								
Same Sport	-	Varies	-	-	-	-	-	-	J		I	J						R	IOC,IF	
Different Sport	-	Varies	-	-	-	-	-	-	I		I	F						R	IOC	
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes, coaches, and service personnel.	-	-	May be required for Sport workforce use. Quantity varies according to athlete numbers.					F						P	
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes, coaches, and service personnel.	-	Required if FOP is not located near athlete area.	Assumes temporary units. Quantity varies according to athlete numbers.					F						P	
International Federation																				
IF Area	90	1	90	135	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located in the Back of House, within the competition management area and in close proximity to athlete areas.	Enclosed space.	Assumes container units or existing space.	I		I	F							R	IF
IF President's Office	15	1	15	-	An office area for IF President.	-	Enclosed space.	Assumes container units or existing space.	I		I	F							R	IF
IF Secretary-General/Executive Director Office	15	1	15	-	-	-	-	Assumes container units or existing space.	I		F								G	IF
Reception, Secretariat, Waiting & Work Space	40	1	40	-	-	-	-	-	I		F								G	IF
IF Meeting Room	-	-	-	-	-	-	See IF & Sport Meeting Room.	-												
Jury Room	15	1	15	20	This space is utilised for jury meetings during training and competition days and the resolution of protests and appeals after competition.	Located in the Back of House, within the competition management area and in close proximity to athlete areas.	Enclosed space.	Assumes container units or existing space.	I		F								R	IF
Video Room	10	1	10	15	Area utilised by technical officials for video reviews of competition.	Located in Back of House, adjacent to Jury Room.	Enclosed space.	Assumes container units or existing space.												
Lounge - International Technical Officials	15	1	15	20	A rest area for officials.	In close proximity to FOP.	Enclosed space.	Assumes container units or existing space.	J		J								G	IF
Seeding / Draw Room	-	-	-	-	Area for team captains meetings involving coaches and team officials.	IF & Sport Meeting Room.	See IF & Sport Meeting Room.	-												
Technical Information Centre	10	1	10	15	An area for distributing information to officials and competition management.	-	-	Recommend to combine with Sport Information area.												
Officials Locker Room, Shower, Toilet	20	1	20	25	Change-room for officials.	Located in Back of House, in close proximity to FOP.	-	Assumes container units or existing space. Separate men and women lockers may be necessary.	I		F								R	IF
Race Director/Technical Delegates Office/Work Space	15	1	15	20	Office area for Race Director, Technical Delegates.	In close proximity to IF President office area.	Enclosed space.	Assumes container units or existing space.	I		I	F							R	IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I		J	J							R	IOC,IF
Sport Presentation																				
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.												
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-				F							P	
Announcer Position	3	1	3	-	-	-	-	-			F								P	
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space, consisting of work area, green room, entertainer staging and dressing and prop storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.				F							P	

Space <small>Sub-space(s)</small>	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L- Legislation
Technology Operations																		
Technology Help Desk	20	1	20	24	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support workforce & manager.	The Help Desk and LAN Management may share a common space if necessary (e.g. when rooms or space are limited).					F					P
Venue Technology Operations (VTO)	35	1	35	40	OCOG Technology Operations area. Operational work space for entire Venue Technology team, .	Adjacent to or within Venue Operations Centre (VOC).	Medium Security - lockable room. Air-conditioned office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	No specific spaces for partners and contractors. Time and Scoring partner (e.g. OMEGA) will use the OVR room. When not in direct operation, partner technicians can stand-by in the Technicians Intervention room.					F				G	P
Technicians Intervention Room	35	1	35	40	A stand-by area for partner technicians when not in direct operation.	Located in close proximity to the VTO.	Enclosed space. Table and chairs. Shared area, separate desks not necessary.	-					F				G	P
Radio Distribution Room (RDR)	30	1	30	18	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E and workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).		I		F						P
Information Technology																		
Computer Equipment Room (CER)	15	1	15	25	Area for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room.	High Security - lockable room. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	The TER and CER may share a common space if necessary (e.g. when rooms or space are limited). Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.		I		F					G	P
Data Local Area Network (LAN) Management Room & Store	30	1	30	35	LAN monitoring room & associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational workforce & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces. The Help Desk and LAN Management may share a common space if necessary (e.g. when rooms or space are limited).					F				G	P

SNOWBOARD

Space <small>Sub-space(s)</small>	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Telecommunication & Audio Visual																			
Telecomm. Equipment Room (TER) Primary	45	1	45	50	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room.	High Security - lockable room. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	The TER and CER may share a common space if necessary (e.g. when rooms or space are limited). Raised flooring is preferable for cabling distribution, but not essential.		I		F						P	
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER.	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.		I		F						P	
Audio Control Positions	-	-	-	-	-	-	-	-				F					G	P	
Venue	4	1	4	8	Area for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Presentation. Can be on FOP, in stands or in a booth with view to FOP.	High Security-lockable room. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1 000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	-											
Press Conference	4	1	4	8	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), HVAC, weatherproof. Work space & FF&E for operator.	-											
Athletes Briefing	2	1	2	4	PA systems required for to facilitate announcements to athletes. Space required for amplifier/microphone.	Within briefing room/area for athletes.	Standard/mains power & FF&E.	-											
International Federation Area	2	1	2	4	PA systems required for Federation Area . Space required for amplifier/microphone.	Location as required by Sport/International Federation.	Standard/mains power & FF&E.	-											
Warm-Up Area	2	1	2	4	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Located in athlete warm-up area.	Standard/mains power & FF&E.	-											
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-											
Workforce Break/Dining	2	Varies	Varies	-	Area within break/dining area where audio control equipment is installed to facilitate meetings/training of large numbers of workforce.	Workforce break/dining areas.	Standard/mains power & FF&E.	-											
Video Board Control	10	1	10	12	Area of video control for video board or video projection system. Operations integral with those of Sport Presentation.	Located within Sport Presentation area. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	-				F					G	P	
Wired Communications Control	5	1	5	8	Area of wired communications master control station and support technician. System essential to operations of both Sport Presentation and Results/FOP management.	Located near or within Sport Presentation is recommended. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location is located outdoors. Good cable access to FOP, OVR Room, Sport Presentation, Broadcast Graphics Room & Results Printing required.	-				F					G	P	

SNOWBOARD

Principles of Stakeholder Involvement:
I-Input, J-Joint Decision, F-Final Decision

Space <small>Sub-space(s)</small>	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space Requirement, G-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation	
Timing, Scoring and Results Operations																			
Timing and Scoring Position	-	-	-	-	Area(s) for event timing & scoring personnel & equipment during competition.	Located adjacent and/or close to FOP.	High Security Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards, speed guns & OVR room. Space & FF&E for operators and equipment.	Where timing and scoring take place outdoors, adequate weather (rain/sun/snow) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, OMEGA
Start Area	1	1	1	2	Position where clock is started for event.	Located with sport at race start position.	Cable access to OVR room between all intermediate timing points, aligner hut & start position.	-											
Control Room	40	1	40	45	Area for central Timing & Scoring control operations, including Backup C system, Event Management & photo-finish system.	Located near finish area with view to FOP.	Cable access to OVR Room, Photo Finish Control & Intermediate Positions along course.	-											
Finish Area	1	1	1	2	-	-	-	-											
On Venue Results (OVR)	-	-	-	-	Area is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	-	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Adequate space and FF&E for high density of computer workstations, racks for servers and working space for technicians, operators, and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or where two sports occur concurrently will require more space for additional OVR equipment.	I	F								P	IF, OMEGA
OVR Provider Work Space	25	1	25	30	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO, CIS, PRD, etc.).	Ideally adjacent to IT provider work area.	-	-											
IT Provider Work Space	20	1	20	25	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-											
Scoreboard Control	-	-	-	-	Area for scoreboard control operations. Operations integral with those of Sport Presentation, data provided from OVR System. Space for both Control and Interface workstations & 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Adequate space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.	I			F						G	P
Scoreboard Control	10	1	10	12	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator & workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-											
Scoreboard Interface	4	1	4	6	Area for interface equipment (PC workstations) linking OVR system & Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-											

SNOWBOARD

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G- Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Results Printing (PRD)	Varies	1	Varies	-	Area for hard copy results production & distribution. Location of high intensity work involving many workforce preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area, room for Print Distribution Workstation (IDS interface) equipment and operator.	Located adjacent or in close proximity to Press Workroom. Easy access to Press Tribunes, Broadcast Commentary positions, Sport Information, Doping and Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specifications. Adequate space for interface equipment and graphics operators and good cable access to OVR room. Adequate space for staff and FF&E required for operational staff as well as 1 pallet of paper to support print/copy operations.		I	I	I	F					I	R	IF
TV Graphics Interface	6	1	6	9	Area where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operations and good cable access to OVR room.					I		F			G	P	
Technology Storage																			
Technology General Storage	60	1	60	75	Area for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F					G	P	
Timing and Scoring Storage & Workshop	20-30	1	20-30	25-35	In venue storage & workshop for timing equipment, spare parts & small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.		I		F						G	P	
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required to distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closets.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Workroom.	High Security - lockable and weatherproof. May require fan or dedicated A/C depending on room location and/or configuration. Fully redundant power (mains and generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.	I		F							P	
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of power from data/voice and audio-visual cabling.	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in a manner which allows for easy access and repair/replacement. Legacy installations should be installed as permanent while temporary (overlay) should be installed using methods which are easily installed and removed minimising potential damage to the existing structure or venue.				F						P	
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.														
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.														
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.														

SNOWBOARD

Principles of Stakeholder
I-Input, J-Joint Decision,
F-Final Decision

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	-											
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	-											
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-											
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-											
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-											
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-											
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-											
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboards infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing and Scoring/OVR contractor.	I			F							P
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.											
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F							P
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the video board. Required for outdoor venues where the video boards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each video board.											
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Presentation on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I			F						G	P
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to/from audio/PA amplification system and/or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend PA speakers from venue ceiling structure.	-	-	-											
Mobile Phone Infrastructure (antenna)	15	1	15	25	Infrastructure required to support installation of additional radio antenna & mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to/from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.	I			F						G	P

SNOWBOARD

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Ticketing																			
Ticket Box Office	40	1	40	100	An area at the venue where Olympic tickets are sold.	Located in Front of House, adjacent to the secure perimeter; near the spectator entry point of the venue.	Gross area includes internal & external queue.	Assumes container unit with disabled access to internal and external service window. Dependant upon venue layout and footprint, spectator access point locations.										P	
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	15	1	15	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s) & Will Call	15	1	15	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	25	1	25	50	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.										P	
Driver Staging	80	1	80	150	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.										P	
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside venue secure perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	20	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-										P	
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from Host City, based on vehicle/bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J						I	P	
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J						I	P	
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F						P	
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.				F					I	G	IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.				F						G	IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.	I		F							G	IOC
Spectator and Workforce Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				F						P	
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.	I		F							P	
Accessible	-	-	-	-	-	-	-	Part of Spectator total.				F						P	
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Area only. Surface areas paved or gravel/hard pack surface.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have drop-off in close proximity to accredited entry point and then driver will park.			I	F						P	
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.				F					I	P	
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.				F						P	
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-			J	J						P	
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes vehicle circulation.				F					I	P	
Emergency Services	-	-	-	50 (each)	-	Generally located inside the secure venue perimeter.	-	Includes vehicle circulation.				F					I	P	
Vehicle Chain-up Area	-	-	-	700	Area that vehicles (cars, buses, etc.) use to install chains onto vehicle tires.	Located along venue access road.	-	Required only for mountain venues in which the access road has slope exceeding an 8% grade on gravel surface or 10% grade on paved road surface.				F						P	
								May be dependent upon local legislation and/or requirements.				F						P	

SNOWBOARD

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Venue Development																			
Site Management Compound	503	1	503	650	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Gross area includes snow removal access. Dependent upon venue footprint, extent of temporary works and number of contractors.											
Site Management Area	60	1	60	-	-	-	Enclosed space.	Assumes container unit/trailer or tent.											
Site Manager & Assistant Site Manager(s) Work Space	12	1	12	-	Work and meeting area for the Site Manager and additional staff.	-	-	-											
Site Administration Desk & Work Space	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-	-											
Response Team & Vendor Staging	24	1	24	-	On-site permanent and temporary facilities for specialty workforce and general labor crew to be on-call.	-	-	-											
Secure Storage - Site Management	12	1	12	-	Area for storage.	-	-	-											
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.	-	Enclosed space. Area for office, staging and a secure storage area.	Assumes container unit/trailer or tent. Contractor usually installs container units at their own cost.											
Sign/Look Staging Work Space/Secure Storage	50	1	50	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	-	Assumes container unit/trailer or tent.											
Material Warehouse/Construction Work Space	80	1	80	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	-	Enclosed space. Area for carpentry, painting and general construction. Storage for non-weather proof materials.	Assumes tent or canopy with 2 side walls.											
Vendor Secure Storage	60	1	60	-	Area for containers, usually provided by the various temporary construction sub-contractors.	-	Enclosed space.	Assumes container unit/trailer or tent or existing space.											
Materials Staging Area	50	1	50	-	Area for the off-loading and loading of bulk construction materials.	-	Area only.	-											
Exterior Storage Area	50	1	50	-	Outdoor storage of material and products.	-	Area only.	Weatherproof area for large and bulk materials.											
Vehicle Staging	90	1	90	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	-	Area only.	Service, Repair & Specialty vehicles.											
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.											P
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.	-											P
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.											P
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.											
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-	-											

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Venue Management																			
Venue Operations Centre (VOC)	60	1	60	90	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Dependent upon venue capacity and venue layout.											P
Venue Manager and Asst. Manager Work Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-											
Assigned Desks	20	1	20	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Space and Storage	18	1	18	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	40	1	40	50	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.											P
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	24	1	24	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	-											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	150	1	150	180	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre or in close proximity to VOC.	Enclosed space.	Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.											P
Snow Removal Compound	-	-	-	-	A service area where the snow removal contractor operates at the venue and performs the snow removal.	Located in the BOH area; adjacent to or within the Logistics or Waste Management compounds.	-	-											
Equipment Storage	15	1	15	-	Area for storage of snow removal equipment.	-	May require covered and enclosure.	-											
Truck & Equipment Staging	50	Varies	Varies	-	Area for staging of snow removal vehicles and equipment	-	May require covered and enclosure.	Number required may vary according to layout and/or size of venue.											
Supply Storage Area	50	Varies	Varies	-	Area for storage of supplies that may be required for snow removal (i.e. salt).	-	May require covered and enclosure.	Number required may vary according to layout and/or size of venue.											
Snow Storage / Removal Area	-	-	-	200-2000	An area or location where snow can be stored after it is removed from operational areas of the venue.	Located outside of operational areas of the venue.	Area only for dumping of snow removed areas of the venue. May require multiple locations that may exist off venue or outside the venue perimeter.	Area requirements will be based on size of venue. Snow removal may require hauling/transport to off venue location.											
Workforce																			
Workforce Area	150	1	150	180	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.											P
Check-In Area	96	1	96	-	Area to log-in venue workforce and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Space	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	335	1	335	400	The space where workforce meals are served and where workforce can break during shifts.	A location that will provide easy access to all venue workforce for breaks and meals; will vary according to venue layout/distances.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon venue workforce numbers.											P
END OF DOCUMENT																			

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Accreditation																								
Venue Accreditation Office	50	1	50	125	Area where accreditation personnel maintain the integrity of the accreditation pass operating system while accommodating the needs of accredited persons at the venue, such as pass activation and temporary access solutions (e.g. day pass) into the venue or into zones within the venue.	Adjacent to the venue perimeter where constituents can access without entering the venue; in close proximity to Workforce entrance and Workforce check-in area.	Enclosed space. Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.											P					
Day Pass Issue & Problem Resolution Desk	15	1	15	-																				
Work Space	15	1	15	-																				
Manager Desk or Office & Storage	12	1	12	-																				
Waiting Area	8	1	8	-																				
Secondary Accreditation Office	9	1	9	30	Same as above but with minimal operations taking place.	Located in the Back of House area, on the perimeter of an accredited area and/or entry.	Enclosed space. May be required in venues which have large distances between accredited entrances, generally over 300m.	Assumes container/trailer unit or tent.											P					
Toilets	1.5	2	3	9	Toilet units designated for constituent groups entering the venue and accreditation workforce.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Broadcast																								
Broadcast Compound	-	1	-	3000	An area for mobile units for both the Host Broadcaster and Rightsholding Broadcasters, along with other operational services and technical needs required for broadcast at the venue.	Located inside the venue, normally in the Back of House area, as close as possible to the Competition facility or tribune areas and FOP areas for easy access.	Area only. Level surface area paved or gravel with heavy duty load capacity. Secure access for entry and exit into the compound area.	Gross area does not include service and production truck access requirements. Gross area includes snow removal access.											R	IOC				
Broadcast Management Office	60	1	60	150	Space for the broadcast management and administrative team.	Located near entrance to compound.	Enclosed space.	Assumes container/trailer unit or tent.											G	IOC				
Broadcast Manager Office	12	1	12	-	-	-	-	-																
Work Room, Assigned & Unassigned Desks	48	1	48	-	-	-	-	-																
Technical Operations centre	40	1	40	100	An area where the final point of signal quality control takes place before transmission from the venue; acts as the interface point for all multilateral and unilateral audio/video signals.	Located inside Broadcast compound.	Enclosed space.	Assumes container/trailer unit or tent.											R	IOC				
Broadcast Catering	140	1	140	180	Dining and break area for broadcast personnel.	Located inside Broadcast compound.	Enclosed space.	-																
Kitchen & Prep	20	1	20	-	-	-	-	Assumes container/trailer unit or tent.																
Buffet Line & Dining	120	1	120	-	-	-	-	Assumes container/trailer unit or tent.																
Host Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for the primary broadcast entity.	Located inside Broadcast compound.	-	Quantity will vary according to the number of HB venue staff & mobile unit venue requirements.																
Work Space(s)	20	Varies	Varies	-	-	-	Enclosed space.	Located in temporary structure. Assumes container/trailer unit or tent.																
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-																
Unilateral Broadcaster Area	85	Varies	Varies	175 (each)	Area of broadcast compound designated for independent rights holding broadcasters.	Located inside Broadcast compound.	-	Quantity will vary according to the number of independent rights holding broadcasters.																
Work Space(s)	20	Varies	Varies	-	-	-	Enclosed space.	Assumes container/trailer unit or tent.																
Mobile Unit(s)	65	Varies	Varies	-	-	-	Enclosed space.	-																
Power Generator(s)/Backup Power Generator(s)	30	Varies	Varies	75 (each)	Independent fuel operated power source.	Located inside Broadcast compound; easy access for refueling trucks.	-	Quantity will vary according to the power requirements for Broadcast at venue.																
Toilets	1.5	8	12	36	-	Located inside Broadcast compound.	-	Assumes temporary units. Accessible toilet facilities should be provided.																
Commentator Control Room	10	1	10	15	An area that serves as the main hub to the host broadcaster's commentator system; all commentator units monitored and controlled in this area.	Located in Back of House area, in close proximity to commentator position area.	Enclosed space with incoming television cable.	Assumes existing space or container unit.											R	IOC				
Broadcast Information Office (BIO)	20	1	20	25	Space for broadcast management and team meetings.	Back of House area; located near commentator positions and CCR.	Enclosed space.	Assumes existing space or container unit.											R	IOC				
Broadcast Graphics Support Room	25	1	25	30	An area where real-time results information is fed into specific broadcast equipment.	-	Space for equipment and personnel to monitor real-time results feed.	-											G	IOC				
Pre & Post Competition Interview Area	9	1	9	9	An area for rights holders to conduct stand-up interviews before and after competition.	Located near FOP entrance and exit.	An area only; may require two areas if the FOP entry and FOP exit are not the same location.	Additional lighting may be required for indoor venues.	J	I	J								R	IOC				
Mixed Zone	25	1	25	120	An area where broadcasters and accredited media have the opportunity to conduct flash interviews with the athletes as they exit the FOP.	Located in the Back of House, adjacent to the FOP.	Gross area includes space required for Broadcast Positions, ENG Positions, Press/Radio & Photo Positions, Athlete and Media movement, Technical Storage Area and Cable paths.	The mixed zone is designed according to IOC rules.	I	I	J								R	IOC, IF				
Commentator Position	4	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters.	Located in seating areas with view to FOP and covered when possible.	Each position = 2m x 2m (4m ²), this includes a working desk with 3 persons seated in chairs, plus circulation space (e.g. for information officers).	-											R	IOC				
Com-Cam Position (Commentator-Camera)	8	Varies	Varies	-	An area for designated tabled positions for independent rights holding broadcasters which includes space for a camera position.	-	Each position = 2m wide x 4m deep (8m ²), this includes a working desk with 3 persons seated in chairs and a space behind for camera/on air interviews.	-																

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS/OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Observer Seating	0.5	Varies	Varies	-	Viewing seats for broadcast personnel.	Adjacent to Commentator positions	1 position = uses 1 seat in existing seating bowls.	-			I	J			J	I		R	IOC
Camera Position - Field of Play	4	Varies	Varies	9 (each)	Areas within the FOP selected for broadcast camera positions.	Located within the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	FOP Camera positions are dependent upon production plans and IF approval.	J		I	J			J	J		R	IOC
Camera Position - Other	4	35	140	315	Areas around the FOP selected for broadcast camera positions.	Located outside the FOP boundaries.	Each position = 2m x 2m, each camera location may have multiple positions.	-	I		I	J			J	I		R	IOC
Radio Frequency (RF) Broadcast Tower	4	1	4	9	An area where a unit for transmitting broadcast camera signals to the broadcast compound is placed.	May be located on roof of existing or temporary structures.	Height varies depending on terrain, structure, etc. Unobstructed view to camera transmitter required for transmission.	-				J	I		J			G	IOC
Cable Route(s)	-	-	-	-	A designated pathway(s) for the distribution of broadcast cabling.	Positioned along building or fence lines, underground conduits, or overhead structures.	Generally may require conduit and/or cable ramps under roads, paths, etc.	See also Technology requirements.				J	I		J			G	IOC
Cable Bridge(s)	72	Varies	Varies	72 (each)	A structure for routing cable pathways over walking areas, roadways, or other obstacles.	Located in Back of House areas; adjacent to the Broadcast Compound.	Over major pedestrian route or any vehicular route. Clear span generally 10m and clear height 5m.	Assumes route under bridge and vehicle barricades in area requirement.				J	I		J			G	IOC
Lighting	-	-	-	-	Lighting level required to properly film and photograph the FOP.	-	Not less than 1400 lux averaged in the same venue (measured on a vertical scale for still photography).	Adjusted to the specific technical requirements of the sport and the venue for broadcasting and press photography, in conjunction with OBS and IFs.	J			J	I		J	I		R	IOC
Catering																			
Catering Compound	565	1	565	1020	A service area where the catering contractor operates at the venue; consisting of site sheds, portable cabins, refrigeration trucks or storage units, dry storage areas and temporary kitchens/food preparation areas.	Located in the Back of House area with easy access for deliveries; sometimes co-located with Logistics and Cleaning and Waste as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Area will be dependent upon venue capacity, level of catering activity. Gross area includes snow removal access.	I			F						P	
Work Spaces - Catering Management	28	1	28	-	Operational work space(s).	Located in Back of House area.	Enclosed space.	Assumes existing space or container.											
Organising Committee Catering Manager	-	-	-	-	-	Located in Venue Operations Centre.	See Venue Management - VOC.	-											
Catering Contractor	16	1	16	-	-	-	-	-											
Beverage Contractor	12	1	12	-	-	-	-	-											
Dry, Cold and Ice Storage	38	6	228	-	Storage for food and beverage items.	-	Enclosed space.	Power, generally container and/or trailer units.											
Vehicle Staging	90	1	90	-	Parking area for product distribution vehicles which generally remain inside the venue.	-	Area only.	-											
Resupply Bay	60	1	60	-	Loading and unloading parking space for vehicles from outside the venue.	-	Area only.	-											
Kitchen and Preparation Area	80	1	80	-	An area where food handling and preparation occurs.	-	Enclosed space.	Assumes containers or tent.											
Uncovered Storage	75	1	75	-	Outdoor storage of material and products.	-	Area only.	-											
Toilets	1.5	2	3	-	Toilet units designated for catering personnel. Chemical unit used in conjunction with chemical toilets, and in the absence of potable water.	-	-	Assumes temporary units. Accessible toilets should be provided.											
Hand Wash Station	1	1	1	-	-	-	Chemical or plumbed unit.	-											
Spectator Points of Sale (P.O.S)	6	Varies	Varies	18 (each)	Concessionaire units (existing or temporary). The temporary holding and distribution of potable water in accordance with local health code standards.	Located in the Front of House, in close proximity to spectator seating.	Generally, unit may be trailer or tent with equipment, container's). 1 P.O.S. per 400 spectators.	Gross area includes service area and queue. Quantity dependent upon venue capacity and level of catering activity.	I			F						P	
Potable Water Supply Tank(s)	8	Varies	Varies	20 (each)	-	Located in the Front House area, adjacent to spectator points of sale.	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Gray Water Storage Tank(s)	8	Varies	Varies	20 (each)	The temporary holding of waste water in accordance with local health code standards.	Located in the Front House area, adjacent to spectator points of sale.	Required where no utility infrastructure exists.	Quantity dependent upon venue capacity and level of catering activity.											
Outlets' Look	-	-	-	-	-	-	See Look for details.	-	I			F						P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Ceremonies																			
Ceremonies Presentation Area	20	1	20	30	The area for the staging of Victory Ceremonies of all Olympic finals in accordance with the competition schedule.	Located adjacent to or on the FOP.	Assumes area only. Location should be visible from the seating areas and from the Sport Production control room.	-										P	
Ceremonies Staging	36	1	36	45	Area to coordinate ceremonies; e.g. podium, procession, recession route and flags. .	Adjacent to or close to FOP.	Consists of coordinator work space with area for anthem storage, secure storage, preparation and dressing area; see below for additional details.	Assumes existing space or container.										P	
Manager Desk	6	1	6	-	Workspace for Manager.	-	-	-											
Anthem Storage	-	-	-	-	Storage for each nation's anthem.	-	Stored in the Sport Production Control Room - see Sport Presentation. Secure storage required.	Varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format.											
Presenters, Medal/Flower staging, Secure medal and flag storage	22	1	22	-	Area for staging, secure storage for medals and flags on ceremonies day.	In close proximity to FOP.	Enclosed space. Secure storage.	Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events), and competition format. Medals storage is not required for those venues where the medal ceremony will take place at another location.											
Presenter Preparation and Dressing	4	2	8	-	A dressing and preparation area for Presenters.	-	Pipe and drape/temporary walling adequate for privacy, 1 female 1 male.	-											
Mascot Dressing Room	9	1	9	12	A dressing and preparation area for Mascots.	Close to FOP.	Limited use, may be shared with other space. See Sport Presentation.	-		I		F						P	
Awards Podium Storage	12	1	12	15	Storage for awards podium.	Adjacent to FOP.	Varies from sport to sport.	-			I	F						P	
Victory Ceremony Flag Poles	32	1	32	35	Area for flag poles or a suspended structure for holding and raising flags.	Adjacent to FOP.	3 - 9m high poles with 2m spacing or suspended from ceiling structure.	Generally, 3 flag poles will be required and 4th should be available in the event of a draw.		I		J	J			J	G	R	IOC
Cleaning and Waste																			
Cleaning & Waste Compound	252	1	252	420	A service area where the Cleaning and Waste contractor operates at the venue and performs the cleaning, removal and disposal of waste. Consisting of site shed, waste containers, storage area, and recycling/waste sorting area.	Located in the Back of House (BOH) area with easy access to all areas of the venue; sometimes co-located with Logistics and Catering as one compound area.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements; sometimes a remote location will be considered for certain waste functions (e.g. sorting)	Compound may be split into operations and storage locations. Size dependant upon venue capacity. Gross area includes snow removal access.					F					P	
Vehicle Staging	72	1	72	-	Parking area for collection vehicles which generally remain inside the venue.	BOH	Area only.	-											
Sorting Area	72	1	72	-	Area for sorting waste.	BOH	Area only.	-											
Waste & Recycle Containers	15	4	60	-	Area in front of waste and recycle bins where material is separated for containment.	BOH	Area for containers.	Assumes 30 cubic meter capacity each. Secondary container units may be necessary in Event Services area and in major Back of House functions (e.g. Catering, Logistics, Broadcast).											
Compactor Unit	25	Varies	Varies	-	-	BOH	Used in place of container units in areas which can not be serviced frequently.	Assumes 30 cubic meter capacity each. Power requirement for compactor motor.											
Equipment Supply & Storage	15	2	30	-	Space for cleaning equipment and paper product.	BOH	Enclosed space.	Assumes container unit.											
Contractor Office	18	1	18	-	Space for management and workforce staging.	BOH	Enclosed space.	-											
Doping Control																			
Doping Control	Varies	1	Varies	Varies	An area where testing of a certain number of athlete urine samples is performed. A designated process of testing is carried out at the venue to ensure compliance of the current testing requirements.	Back of house location, in close proximity athlete areas and mixed zone.	Enclosed air-conditioned space with secure entry.	-		J		J	J					R	IOC
Waiting Area/Reception	26	1	26	30	Area where athletes check-in and wait prior to testing.	-	-	-											
Urine Processing Room(s)	12	Varies	Varies	15 (each)	Area where athlete urine samples are provided and sealed.	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).											
Blood Processing Room(s)	15	Varies	Varies	20 (each)	Area where athlete blood samples are provided and sealed	-	Enclosed space. Secure storage.	Assumes 1 space in area requirements. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).											
Toilet(s) & Sink(s)	5	Varies	Varies	8 (each)	Toilet units designated for Doping Control only. Where athlete urinates under direct observation of Doping Control Officer. Wash basin for hand sanitisation.	-	Toilet located in separate room from sink to avoid tampering with samples.	Assumes 1 space in area requirement. Accessible toilets facilities should be provided. Quantity varies and is dependent on testing operation (e.g. peak number of tests per hour).											
Office / Storage	12	1	12	15	Work and storage space for Doping Manager.	-	Enclosed space. Secure storage.	-											
Athlete Tagging	4	1	4	6	A waiting area where doping escorts identify athletes for Doping Control.	Located at/near FOP exit/finish area.	Area only.	-		I		J	J					R	IOC

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Event Services																			
Event Services Manager Desk	6	1	6	10	Work space for Event Services Manager.	In Venue Operations Centre (VOC) or other BOH/Operational area.	Enclosed space.	May require additional space for Assistant Manager.					F					P	
Sector Coordinator Staging/Work Area	24	1	24	30	Space for staging and a work area.	-	-	-											
Equipment Storage and Distribution	20	1	20	25	Area for storage and distribution of equipment.	-	-	Secure storage may be required. Generally, large equipment needs (i.e.-metal barricades will be stored in the Logistics Compound).											
Briefing Area	Varies	Varies	Varies	-	Area for briefing of workforce pre-shift.	Generally located in spectator seating areas or see Multi-purpose Room under Venue Management.	Seating area (outside or inside) necessary for a large	Competition Schedule - can hold briefing in spectator seating area if only 1 session per day. Size requirement may be dependent upon spectator capacity.					F					P	
Public Information	36	1	36	108	An information desk available to spectators for Olympic event information; open throughout the event to service spectator queries or concerns.	Adjacent to and accessible prior to entering the seating areas.	Enclosed and covered space; gross area includes queue(s).	Assumes 3 sided tent or existing space with cover. Some venue designs may require 1 or more locations inside and/or outside the secured perimeter. Dependent upon spectator capacity and venue footprint/layout.					F					P	
Information Desk	-	-	-	-	-	-	-	-											
Lost and Found	-	-	-	-	A holding area for items found in the venue.	-	-	-											
Assisted Listening Device Rental	-	-	-	-	An area where listening devices are provided to spectators.	-	-	-											
Wheelchair Storage	6	1	6	12	An area to store wheelchairs.	-	-	Will depend on level of service at venue.					F					P	
Ticket Rip	3	Varies	Varies	9 (each)	An area after the security screening point where, on entry to the venue, the ticket is ripped.	Inside venue perimeter, after spectator entry point.	Barricade line creating 2m deep chutes; located between screening/search area and spectator plaza.	Total number generally 50% of security screening positions.					F					P	
Stroller Storage	Varies	Varies	Varies	72 (each)	An area designated for the temporary storage of children's strollers.	In close proximity to seating area.	Designated area/location cannot interrupt pedestrian/spectator flow to seating areas.	Size will vary (i.e.-barricaded area under roof/overhang near entry of seating area). Quantity dependent upon spectator capacity.					F					P	
Water Station(s)	36	Varies	Varies	108 (each)	A distribution point of drinking water in accordance with local health code standards.	Located in FOH and away from concession area as not to interfere with concession operations.	Area only.	Estimate 1 per 5,000 spectators. Will vary according to local legislation.					F					P	
Payphones	2	Varies	Varies	72 (each)	Area for placement of public telephones.	Located inside and outside the secure perimeter	Area only.	Outside Phones: assumes 8 phones in each unit, 1 unit per 20,000 spectators; Inside Phones: assumes 8 phones in each unit, 1 unit per 10,000 spectators					F					P	
Spectator Shade and Shelter	Varies	Varies	Varies	72 (each)	Supplementary temporary structures for spectator comfort.	Located between spectator entry, seating areas and spectator service amenities.	Covered area. 1m ² per person.	Spectator rest stops may be necessary in extended venue walk-ups; will depend on venue layout distance and local legislation.					F					P	
Designated Smoking Areas	36	1	36	-	Designated smoking zones for constituent groups.	Located away from seating areas and food service areas; both Front of House and Back of House locations.	Uncovered area with barricades or rope and sign(s).	-					F					P	
Spectator Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators.	Located in FOH, close proximity to seating and spectator amenities.	-	Assumes temporary units. Accessible toilet facilities are generally 1% of the spectator capacity and at least one (1) unit per toilet bank location. Total number of toilets are generally based on spectator capacity, duration of event including event load-in/load-out time period.					F					P	
Hand Wash Stations	1	Varies	Varies	6 (per 20 toilets)	A chemical unit used in the absence of potable water.	Located in FOH, close proximity to seating and spectator amenities.	Chemical or plumbed unit. Not required if temporary toilets include hand washing unit.	Assumes temporary units.					F					P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Finance																			
Work Space / Desk	-	-	-	-	A work space where the Venue Finance Manager manages all financial transactions and assists the Venue Manager with all budget matters of the venue for the Olympic Games period.	Located in the Venue Operations Centre.	See Venue Management - Venue Operations Centre.	-		I		F						P	
Automated Teller Machines (ATM)	2	Varies	Varies	72	An area for the placement of a portable ATM.	Located in Front of House, both inside venue perimeter and outside venue perimeter.	Area only.	Quantity dependent upon venue capacity.		I		F						P	
Language Services																			
Work Space / Desk	20	1	20	25	Area where Language Service is provided to athletes, Olympic Family and, generally, to accredited media.	May be integrated into Venue Operations Centre (VOC).	Includes a desk for a translator(s) and waiting/staging area for interpreters.	-			J	J			I			G	IOC
Simultaneous Interpretation Booth	Varies	Varies	Varies	3 (each)	A space where simultaneous interpretation services are set-up to meet the needs of Sport and Press.	Generally located in Press Conference rooms.	Requirement based on Sport and Press Conference ne-	-			J	J			I			G	IOC
Logistics																			
Logistics Compound	-	1	-	780	A service area where Logistics will operate at the venue, including management of furniture/equipment, asset tracking, storage, scheduling and receiving all deliveries to the venue and general handling of all equipment movements within the venue on behalf of all Functional Areas.	Located in the Back of House (BOH) area with easy access for deliveries; generally may be located with Catering and Cleaning & Waste as one compound area at the venue.	Area only. Surface area paved or gravel with heavy duty load capacity. Gross area does not include service vehicle access requirements.	Compound may be split into operations and storage locations. Size may vary according to venue capacity. Gross area includes snow removal access.					F					P	
Logistics Centre	60	1	60	-	-	-	Enclosed space.	Assumes container units or tent.											
Logistics Manager & Assistant Manager(s) Work Space / Desk	12	1	12	-	Space for logistics management.	-	-	-											
Team Staging/Work Space	33	1	33	-	Space for staging and a work area.	-	-	-											
Secure Storage & Equipment Sign-out	15	1	15	-	Area for storage.	-	Storage for tools.	-											
Warehouse Storage	90	1	90	-	Storage area for furniture, fixtures, and equipment (F	-	Enclosed space.	Assumes tent											
Storage Yard	75	1	75	-	Outside storage area within compound.	-	Area only.	-											
Vehicle Staging	100	1	100	-	Area for vehicle movement and turnaround.	-	Area only; delivery unloading.	-											
Fuel Tank(s)	9	Varies	Varies	25 (each)	An area where containers are installed for the refueling of vehicles.	-	Area only; may require cover dependant on climatic conditions.	In accordance with local safety codes. Quantity dependant upon venue layout and distances.											
Waste Bin	15	Varies	Varies	-	Large bins for waste storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.											
Recycle Bin	15	Varies	Varies	-	Large bins for recyclables storage.	-	May be 8 or 30 cubic meter unit.	Quantity dependant upon venue layout and distances.											
Toilets	1.5	2	3	-	Toilet units designated for logistics personnel.	Located in BOH compound areas.	-	Assumes temporary units. Accessible toilets should be provided.											
Material Transfer Area (MTA)	-	1	-	575	Generally for deliveries to the venue that may take place after hours or not within the logistics delivery window period.	Adjacent to venue perimeter; near Back of House (BOH) entry/vehicle screening area.	Surface area paved or gravel with heavy duty load capacity. Operated in conjunction with venue security operations.	Includes Delivery Vehicle Queue & Off-load, Security Screening, Staging & Logistics Vehicle Queue & on-load and toilets.				F						P	
X-Ray Area	36	1	36	72	Device for screening of boxes/bags/hard goods coming into the venue.	-	May be added as a component of security screening.	Assumes enclosed tent.											

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Look of the Games																			
Work Space and Secure Storage	-	-	-	-	An area in which to prepare and coordinate installation of all venue Look items.	-	See Venue Development.	See Venue Development.										P	
Protocol Flags	-	4-6	-	-	An area where protocol flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas and next/near venue entry.	9m high poles with 3m spacing.	For more specific detail (flags required, order, etc.), please reference the Technical Manual on Protocol.	J	J	J					J		R	IOC
National Olympic Committee (NOC) Flags	Varies	-	-	-	An area where NOC flags are hung or suspended.	Generally located close or adjacent to FOP, within view of seating areas.	Height of flagpoles varies according to flag sizes (ratio: length of the flag should be at least 25% the height of the pole). 9m high poles with 2m spacing. Number of flags varies by number of participating nations, teams, individuals, competition schedule (multiple events) and competition format.	Flags, generally, attached to back of seating structure and/or suspended from ceiling structure.			J	J				J		R	IOC
Look Elements	-	-	-	-	Look items that are placed in the venue.	Generally in Front of House and Back of House locations that are visible by spectators.	Elements include banners, flags, sport banners, seating structure screening, gateway portals and fence fabric.	-	I	I	J	J				J	G	R,P	IOC, IF
FOP	-	-	-	-	Look items for the FOP.	FOP.	Elements include FOP surrounds, FOP marker/distance banners and Start/Finish portals. Located in Spectator Transportation Zone(s), Spectator Entry(s) and concourse areas.	Quantity varies according to venue layout/area of venue.			I	J	J			J	G	R	IOC, L
Sponsor Recognition Elements	Varies	Varies	Varies	-	Look items specifically for sponsor recognition.	Located in the Front of House (FOH) Located in Press Conference room.	Fixed on stand or against wall behind top table in Press Conference room.	-				F			I				
Backdrop - Press Conference Room	2.2 x 6	1	2.2 x 6	-	Look item for Press Conference behind the dais.			-											
Outlets' Look	-	-	-	-	Look required for concessionaire units.	Located in FOH.	Venue catering and merchandise facilities located in the Front of House areas will be fitted out with approved Look to be installed for the Games period.	-											P
Medical Services																			
Athlete Medical	65	1	65	100	An area where Medical provides services to athletes competing at the venue.	Located in Back of House within the accredited athlete area.	Enclosed space.	Assumes container or existing space.	J	J	J					J		R	IF
Reception & Waiting	12	1	12	-	Area where athletes check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	10	1	10	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Physiotherapy Area(s)	8	2	16	-	Area where physiotherapy occurs.	-	Massage tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for athletes and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
FOP/Finish Area Medical	18	1	18	36	Area for immediate treatment of athletes throughout the competition.	-	Enclosed space.	Assumes tent or existing space.	J	J	J					J		S	IF
Toilets	1.5	2	3	-	Toilet units designated for medical personnel.	-	-	Assumes temporary units.											
Spectator Medical	50	1	50	100	An area where Medical provides related services to the primary constituent group, spectators, but also provides services to all other constituents at the venue.	Located in the Front of House area; in close proximity to spectator seating areas.	Enclosed space. 1 per 20,000 spectators.	Assumes container unit or existing space.			I	F				I		P	
Reception & Waiting	12	1	12	-	Area where spectators check-in and wait prior to examination.	-	-	-											
Medical Work Space & Secure Storage	12	1	12	-	Space for Medical workforce.	-	Enclosed space and secure storage.	-											
Examination Area(s)	8	3	24	-	Area where medical examinations occur.	-	Examination tables with privacy screening.	-											
Toilets	1.5	2	3	-	Toilet units designated for spectators and medical personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Triage Station	36	1	38	72	Additional space to treat minor medical needs of spectators.	Located in the Front of House.	Covered space. May be used to supplement Spectator Medical Reception function.	Assumes canopy structure.			I	F				I		P	
Ambulance Staging	-	Varies	-	30 (each)	Parking area for ambulance vehicle(s).	Adjacent to FOP access and Athlete Medical.	Area only. For Winter Games, the ambulances may need heated shelters or access to electrical outlets for block heaters and protection from snow and ice.	2 units may be required depending on distance and access between functions. When planning, consideration should be given on the locations/distances of the FOP, Athlete Medical, Spectator Medical and egress from venue and finally the ambulance access route out of venue.										P	
Helicopter Landing Pad or Zone	-	1	1000	-	Large, open area for helicopter landing/staging.	-	Area only. Paved, graveled or grass area with fence, barricade or rope enclosure.	-										P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Merchandise																			
Office, Cash Room & Work Space	12	1	12	15	An area to manage the retailing of all Olympic merchandise inside the venue.	-	Enclosed space with secure entry.	Assumes container/trailer unit or existing space.				F						P	
Storage	15	2	30	35	-	-	-	Assumes storage containers or existing space.				F						P	
Program Sales Stands/Booths	1	1	1	2	-	-	Area only.	Units provided by vendor. Quantity and location decided by vendor and OCOG.				F						P	
Merchandise Points of Sale (POS) Outlets' Look	6	Varies	Varies	18 (each)	Concessionaire units.	Located in Event Services areas; adjacent to seating areas.	1 P.O.S. per 800 spectators.	Gross area is per each P.O.S. and includes service area and queue.	I			F						P	
Olympic Family Services																			
Olympic Family Lounge	240	1	240	500	An area that may serve food or beverages to appropriately accredited persons; where accredited access is limited to certain accredited dignitaries, Olympic Family members, and invited guests.	-	Enclosed space.	Assumes existing space or temporary set-up (tent).	I		I	F				I	G	G	IOC
Welcome Desk and Transportation Desk	6	1	6	-	Area to greet Olympic Family and respond to transport requests.	-	-	-											
Protocol Manager Office	12	1	12	-	Work space for the Protocol Manager to meet requests from dignitaries or Olympic Family members.	-	Enclosed space for meetings or resolution to diplomatic and/or other matters.	-											
Workforce/Volunteer Room and Storage	12	1	12	-	On-call waiting area for Protocol workforce and equipment storage.	-	-	-											
Dining and Lounge	140	1	140	-	Area for dining and lounge.	-	-	-											
Preparation/Buffer set-up/Beverage Area	70	1	70	-	An area to prepare and serve food/beverage.	-	Generally, a kitchen facility/setup is not necessary as this may be centrally located with other food service functions (e.g. Workforce/Volunteer, Athlete, Media)	-											
Toilets	30	1	30	60	Toilet units designated for Olympic Family.	Located in close proximity to lounge area.	4 female, 4 male, generally not shared with other constituent groups.	Assumes container unit or existing space. Accessible toilet facilities should be provided											
Protocol flags	-	-	-	-	-	-	See Look of the Games.	-			J	J						R	IOC
Press Operations																			
Venue Media Centre (VMC)	790	1	790	1115	The VMC serves as a daily work area for accredited media covering the sports competition. The Work Room is equipped with much of the same equipment and services found at the MPC. Other VMC facilities in outdoor venues include Mixed Zone, Press Conference Room and Photo Positions.	Close proximity to Press Conference Room and Mixed Zone area.	Enclosed space for press and photographers.	Assumes tent.				F						R	IOC
Reception & Information Desk	30	1	30	-	Welcome desk at the entrance, for information distribution.	-	-	-											
Storage	10	1	10	-	Equipment storage.	-	-	-											
Press Manager Office	15	1	15	-	Operational work space.	-	-	-											
Photo Manager Office	15	1	15	-	Operational work space.	-	-	-											
IF Media Office	15	1	15	-	Operational work space.	-	-	-											
Olympic News Service (ONS) Work Room or Area	30	1	30	-	Operational work space.	-	Enclosed space.	-											
Info Stations	35	1	35	-	Computer stations and printers.	-	-	-											
Press Work Room or Area	320	1	320	-	Work area for press.	-	Enclosed space. 1 work position per 60 cm x 90 cm table, 1 telephone per 3 positions, Wireless, task lighting. Space will include area for copy equipment set-up.	Various OCOG staff (eg IOC Media Relations) will work within this area.											
Photo Work Room or Area	100	1	100	-	Work area for photographers.	Photo area can be within the press work area but close to Photo Manager's office. Alternatively, can be in adjacent space separate from press if extra space is required.	Enclosed space. 1 work position per 90 cm x 120 cm table, 1 telephone per 3 positions, Wireless, task lighting.	-											
Photographers Check-in & Photo Bib Distribution	25	1	25	-	Area where photographers register and receive/return photo bibs.	-	-	-											
Locker Area	1	Varies	Varies	-	Secure storage for photographer (and journalist) equipment.	-	Half-height lockers (Size: 40 cm x 40 cm x 70 cm).	Quantity dependant upon final press and photographers numbers.											
Lounge/Catering Preparation	180	1	180	-	Includes minor food preparation, pay counter, self-serve tables, vending machines and seating area.	-	-	-											
Toilets	1.5	10	15	-	Toilet units designated for the Venue Media Centre.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided											

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Press Conference Room	260	1	260	420	An area for media to conduct formal interviews with athletes at the venue.	Generally located in close proximity to FOP/athlete areas for easy access by coaches/athletes/teams.	Enclosed space with consideration to outside noise levels. Broadcast level lighting, audio system and backdrop required.	Assumes tent; fitted with tables, chairs, Look of the Games backdrop, camera platforms. May be used by press staff for meetings between press conferences.	I			F						R	IOC
Seating Area	200	1	200	-	An area for accredited press.	-	Seats and standing room.	-											
Dais	-	1	-	-	A platform from which interviews are conducted.	-	2.4 m x 6 m x 60 cm high platform with 1 stair. 3 .6 m table, 8 chairs & step and repeat backdrop.	-											
Camera Platform	-	1	-	-	Area for broadcast camera positions.	-	Camera Positions, 1.8 m x 6 m x 60 cm high platform.	-											
Audio Amplifier Rack and Speaker stands	-	-	-	-	Area for amplifier rack and speakers.	-	See Technology for Amplifier Rack details.	-											
Backdrop - Press Conference Room	-	-	-	-	-	-	See Look for details.	-				F			I	I			
Mixed Zone	80	1	80	-	An area where media conducts brief, informal interviews of the athletes at the end of the event.	Located in Back of House adjacent to FOP, along athlete route from FOP to athlete area.	Area only. See also Broadcast requirements.	Area requirements for press only, not including broadcast requirements.	I		I	F						R	IOC,IF
Press Tribune	-	-	-	-	A section of the seating area dedicated to accredited journalists and photographers; both tabled and non-tabled positions.	-	Tabled seating is fitted out with telephones, television monitors, power and other press facilities (indoor venues). For outdoor venues, these services will exist in VMC.	-											
Press Tabletop Seating	Varies	Varies	Varies	-	-	Easy access from Venue Media Centre and direct access if possible to Mixed Zone.	In an existing stadium or seating area: 1 seat wide (folding chairs at 60 cm spacing) x 2 existing rows deep (1 row for the seat and 1 row for the table top built over the seats) 50 cm deep tabletop per position, each position = 2 stadium seats. Temporary Stands: 1 seat (folding chairs at 60 cm spacing) x 2 rows deep of proposed seating system (normally 15 0 cm-170 cm deep).	The tables for Press Tribunes can be built in a continuous line, but the seating is three stand alone chairs. Placing of Press Tribunes is done in collaboration with Broadcasting to ensure a proportion of the tables have good centre line position.			I	F						R	IOC,IF
Press Seating (non-tabled)	Varies	Varies	Varies	-	An area for accredited press.	Normal seating adjacent to tabletop seating.	1 existing seat = 1 position. Temporary Stands: 1 seat per proposed seating system = 1 position.	Good access to Press Work Room and Mixed Zone. Not all these seats may be needed for early preliminary sessions.			I	F						R	IOC,IF
Toilets	1.5	Varies	Varies	-	Toilet units designated for press.	-	-	Assumes container unit or existing space. Accessible toilet facilities should be provided											
Photographers Positions	-	-	-	-	Positions for photographers provided within the venue with view of FOP.	-	-	-											
Field of Play	Varies	Varies	Varies	-	Positions for photographers on/around the FOP.	Located along FOP.	60 cm wide x 90 cm deep per position, multi-row areas require 60 cm riser per row.	Power, Wireless and data cabling needed to photo positions on FOP.	J		I	J						R	IOC, IF
Seating area(s)	Varies	Varies	Varies	-	Positions for photographers within seating area.	Normal seating areas.	-	Seating areas are generally not applicable for outdoor venues.	I		I	F						G	IOC
Lighting	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Security																			
Security Command Centre	120	1	120	145	The central area where Security Operations will handle all venue security throughout the Olympic period, which may include: security inspections, perimeter protection, safety and response, dignitary protection, and emergency management.	Generally, located in or adjacent to the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon spectator capacity / venue footprint / cultural context.					I	F				P	
Venue Security Manager & Asst. Mngr. Space	15	1	15	-	An area for the Venue Security Manager and assistant(s).	-	-	-											
Security Work Space	15	1	15	-	An area for additional security agencies.	-	-	-											
CCTV Surveillance & Video Desk	15	1	15	-	An area for the monitoring and control of the venue closed circuit surveillance cameras.	-	-	-											
CCTV Cameras	-	-	-	-	Closed circuit surveillance cameras.	FOH and BOH; outside and inside venue perimeter. Exact locations dependent on venue layout.	Usually mounted on existing or temporary structures, some may require 6-9m poles.	Locations and quantities per venue configuration.											
Radio Dispatch & Monitoring	15	1	15	-	An area for the monitoring and control of security communication and the distribution/return of security radios.	-	-	-											
Work Room	50	1	50	-	Open plan of work stations designated for security personnel.	-	-	-											
Secure Storage	10	1	10	-	An area for Security equipment storage.	-	Enclosed, secure space.	-											
Major Incident Room	-	-	-	-	Meeting area during a crisis management situation.	Located generally in the Venue Operations Centre or within close proximity to Venue Operations Centre or Security Command Centre.	Meeting room area; see Venue Management - Multi-Purpose Room.	-					J	J				P	
Briefing and Break Area / Staging Area	140	1	140	170	Area for briefing workforce before and after shifts.	-	Enclosed space.	Assumes tent.											
Observation Positions	4	Varies	Varies	-	Raised platforms or existing spaces for the purpose of monitoring crowds and specific areas of the venue.	Located at various points around the venue.	Located minimum of 2m above observed area. Assumes scaffolding or existing spaces.	Dependent upon spectator capacity, cultural context.					J	J				P	
Vehicle Screening & Sanitisation Area	569	1	569	800	An area where selected vehicles will be required to pass through a vehicle check point with a designated level of security inspection performed.	Located away from Venue Secure Perimeter, distance dependent on security policy.	Area only. Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.					I	F				P	
Vehicle Queue	175	1	175	-	Area where vehicles line-up prior to entering screening area.	-	Area only.	-											
Oversized Vehicle Queue	140		140	-	For large vehicles or delivery trucks that may be required to enter the venue.	-	Area only.	-											
Vehicle Sanitisation & Wanding Areas	150		75	-	Screening and/or inspection positions for all vehicles entering the venue.	-	Covered area.	Assumes canopy with 2 side walls. Number of search bays will be dependent on the determined vehicle search intensity (level) required.											
Oversized Vehicle (Truck & Bus) Sanitisation	70		70	-	Screening and/or inspection positions for large vehicles.	-	Area only.	-											
Observation Platform	4	Varies	Varies	16 (each)	Raised platform or existing space for the purpose of checking the tops of large vehicles.	-	1.2m x 1.2m x 4m high.	Assumes scaffold structure.											
Security Office	15	1	15	-	A work space for vehicle screening personnel.	-	Enclosed space for staging and break.	-											
Toilets	1.5	2	3	-	Toilet units designated for vehicle screening personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Vehicle Entrances & Exits	-	-	-	-	Locations where vehicles will enter through the secure perimeter and access various areas of the venue (e.g. resupply/fuel truck, broadcast compound, deliveries). An exit route and point will be required for vehicles departing the venue.	Located at the venue secure perimeter and/or venue screening area for constituents.	-	Dependent upon spectator capacity and venue design.					F	I					
Athlete Area	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-	I		F							P	
Broadcast Compound	6 linear mtrs.	Varies	Varies	-	-	Located in BOH	Minimum gate width recommended = 6m.	-			F		I					P	
Emergency-Security, Fire, Medical	6 linear mtrs.	Varies	Varies	-	-	Located throughout venue.	Minimum gate width recommended = 6m.	-			J		J					P	
Operations Load-In/Out	6 linear mtrs.	Varies	Varies	-	-	Located in BOH.	Minimum gate width recommended = 6m.	Minimum gate width recommended = 6m.					F					P	

Olympic Games
SPEED SKATING

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Vehicle Permit Check Point and Queue	Varies	Varies	Varies	-	A control area where vehicles entering this exterior perimeter point will be required to display the proper Olympic vehicle permit for access to the venue.	Located outside the venue secure perimeter; normally on access roads to the venue.	Surface area paved or gravel with heavy duty load capacity.	Dependent upon spectator capacity, cultural context; venue design, host government practices.											
Venue Perimeter Entrances & Security Screening/Search (Pedestrian)	-	-	-	-	Locations where constituent groups will enter through the secure perimeter of the competition venue and access various parts of the venue with an accreditation or a ticket.	Located at the venue secure perimeter.	Enclosed space for screening/search area positions.. Net area for each screening position will accommodate the following: 4 Wanding Stations, OR - 1 Magnetometer with 2 Search Tables & 2 Wanding Stations, OR - 1 X-ray Device, 1 Magnetometer & 2 Search Tables.	Assumes tent with 2 retractable side walls. Gross area includes queue. Dependent upon spectator capacity and venue design.											
Athlete / Team	18	1-2	18-36	36-72	-	BOH.	-	-	I		F								P
Technical Officials, Judges & Referees	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with Athlete and/or Olympic Family.	I		F								P
Olympic Family (IOC, NOC, IF)	18	1-2	18-36	36-72	-	BOH.	-	Entrance can be combined with TO, ENG and/or Press.	I		I	F							P
Broadcast	18	1-2	18-36	45-90	-	BOH.	-	If possible, direct access from outside venue perimeter into Broadcast Compound.				F		I					R IOC
ENG (Electronic News Gathering)	18	1-2	18-36	45-90	-	BOH; located in close proximity to Venue Broadcast Compound.	-	-											
Press and Photographer	18	1-2	18-36	36-72	-	BOH; located in close proximity to Venue Media Centre.	Space and facilities sufficient to ensure minimum delays Entry should be exclusive to Media (Press and Broadcast).	If possible, direct access from outside venue perimeter into Venue Media Centre.				F							R IOC
Workforce (Staff/Volunteer/Contractor/Vendor)	18	2-3	36-54	90-135	-	BOH or possibly FOH.	-	-				F							G IOC
Spectator / Sponsors	18	Varies	Varies	54	-	FOH.	Generally, a special access or operations gate for entry is provided to persons with accessible requirements; part of total spectator requirement, 1 position per 10 000 spectators (only bag search/hand wanding station).	-				F							P
Toilets	1.5	Varies	Varies	5 (each)	Toilet units designated for spectators entering the venue.	Located outside the venue perimeter.	1 per 2,000 spectators.	Assumes temporary units. Accessible toilet facilities should be provided.											
Exception Gate	Varies	Varies	Varies	-	Access gate for designated accredited personnel.	FOH; located adjacent to primary spectator entrance.	Spectator exit gate may be used depending on venue layout.	Used only by authorised workforce.											
X-ray of bags	36	Varies	Varies	72 (each)	Device for screening bags/equipment coming into the venue.	FOH and BOH.	Covered.	-			I	F							G P
Venue Perimeter Exits (Pedestrian)	-	-	-	-	Locations where constituent groups will exit through the secure perimeter of the competition venue to the transport loading areas or vehicle parking areas.	-	-	Dependent upon spectator capacity and venue design.				F	I						P
Accredited Exits	1-3 linear mtrs.	Varies	Varies	-	-	Located at each security screening area for accredited constituents.	1m to 3m width, sometimes used as a secondary service vehicle exit point.	-											
Spectator Exits	6 linear mtrs.	Varies	Varies	-	-	Located on the outbound direction of spectator transportation systems.	6m each, number varies per concourse design.	-											
Workforce (Staff/Volunteer/Contractor/Vendor)	Varies	Varies	Varies	-	-	Through the check-out portion of the Workforce Centre.	-	Size dependant upon total workforce numbers.											
Sponsor Services																			
Sponsor Seating	Varies	-	Varies	-	Seating area from which to view the FOP.	Located within spectator seating areas.	-	Part of spectator total.				I	F						P

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Sport Operations																			
Competition Management	75	1	75	90	A work area for sport personnel to ensure the competition and training elements of the venue are prepared and operational according to the IF requirements of the sport.	Located in Back of House, in close proximity to athlete area and FOP; may be co-located within the Venue Operations Centre (VOC).	Enclosed space.	Assumes permanent or temporary structure.	I			F						P	
Competition Manager & Asst. Manager Desks	12	1	12	-	An area for the manager and assistant(s) manager.	-	-	-											
Assigned Work Space	24	1	24	-	Open plan of work stations designated for Sport personnel.	-	-	-											
Hot Desks	15	1	15	-	Shared work stations.	-	-	-											
Work Space	24	1	24	-	Non-designated work positions and equipment.	-	Copier, Fax, Storage.	-											
Conference Area or Room	-	-	-	-	Area for meetings.	-	See Venue Management - Multi-Purpose Room.	-											
Sport Information	13	1	13	20	An area where competition information and services for the National Olympic Committees competing at the venue is available.	Located adjacent to athlete area.	Enclosed space with waiting area and seating.	Includes: information boards, pigeon holes, Info & Help Desk, work area, info terminal stations & storage.	J		J							R	IF
Results Posting Area	3	1	3	-	An area for posting race results.	Located adjacent to athlete area.	Area only.	-											
Athlete Lounge	60	1	60	75	An area where athletes can relax at the venue while not training or competing.	Located in athlete area.	Enclosed space.	Assumes permanent or temporary structure. Includes: seating area, lounge, Info & Help Desk, info terminal stations.	J		J							R	IF
Athlete Locker Rooms	150	2	300	400	Change-room facilities to accommodate athletes at the venue during competition and training.	Located in athlete area, adjacent to FOP.	Enclosed space. Separate male and female facilities required.	Assumes permanent facilities.	J		J							R	IF
Laundry Room	60	1	60	75	An area used by team equipment managers to launder team uniforms.	Located in close proximity to athlete change-rooms.	Enclosed space.	-	J		J							R	IF
IF & Sport Meeting Room	100	1	100	150	Meeting facility at the venue for teams and other sport related meeting needs.	Located in the competition management area.	-	Assumes container units or existing space.	J		J							R	IF
Skate Sharpening Room	80	1	80	100	An area where a skate manufacturer provides skate repair and sharpening services to athletes.	Located in close proximity to athlete areas.	Enclosed space.	Assumes permanent and/existing space at the venue.	J		J	I						R	IF
Uniform Repair	40	1	40	-	An area where uniform repairs or alterations are performed.	Located in close proximity to athlete change-rooms.	Enclosed space.	Assumes permanent and/existing space at the venue.	J		J	I						R	IF
FOP Equipment Storage Area	200	1	200	225	Storage of equipment required for utilised by sport in running competition.	Located in Back of House, adjacent to Field of Play or within close proximity.	Securable storage area for equipment (e.g. gates, rakes, shovels, zambonis).	Assumes permanent and/existing space at the venue.	I		F	I						R	IF
Ice/Snow Technicians Area	15	1	15	20	An area used by ice/snow technicians as a work area and lounge.	Located in Back of House, adjacent to technical equipment storage.	Enclosed space.	Assumes permanent or temporary structure.	J		J	I						R	IF
Field of Play (FOP)	-	-	-	-	Area where competition is conducted.	-	-	-											
FOP Surface Dimensions or Area	-	-	-	-	-	-	Oval details.	-	F		I							R	IF
Total Required Dimensions or Area	-	-	-	-	-	-	-	-	F		I							R	IF
Surface	-	-	-	-	-	-	Ice	-	J		J	I						R	IF
Orientation	-	-	-	-	-	-	-	-	J		J	I						R	IF
Sports Lighting - Technical	-	-	-	-	-	-	See Broadcast for lighting specifications.	-											

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Warm-Up Area(s)	-	-	-	-	Area where athletes prepare prior to competition.	-	-	-											
Warm-up Surface Dimensions or Area	90	1	90	120	-	Located in close proximity to athlete change-rooms.	Enclosed space with exercise mats and equipment utilised by athletes to warm-up prior to competition.	-	J		J				I	J		R	IF
Surface	-	-	-	-	-	-	-	-	J		J	I						R	IF
Orientation	-	-	-	-	-	-	-	-	I		F	I						R	IF
Camera Positions	-	-	-	-	-	-	-	-	J		J				I			P	IF
Biomechanics	1	1	1	-	-	Located in FOP position.	Pole-mounted or tripod-mounted cameras.	-											
Athlete / Team Seating	-	-	-	-	-	A designated seating area for athletes.	-	-	J		I	J					J		
Same Sport	-	Varies	-	-	-	-	-	-	J		I	J					I	R	IOC,IF
Different Sport	-	Varies	-	-	-	-	-	-	I		I	F					I	R	IOC
Toilets - Athlete Area	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	-	May be required for Sport workforce use. Quantity varies according to athlete numbers. Assumes temporary units. Quantity varies according to athlete numbers.					F					P	
Toilets - Near FOP	1.5	Varies	Varies	5 (each)	Toilet units designated for athletes.	-	Required if FOP is not located near athlete area.	Assumes temporary units. Quantity varies according to athlete numbers.				F						P	
International Federation																			
IF Area	90	1	90	135	Responsible for administering the respective sport competition, including: enforcement of the rules/regulations, operation and technical control of the overall competition.	Located in the Back of House, within the competition management area and in close proximity to athlete areas.	Enclosed space.	Assumes permanent and/existing space at the venue.	I		I	F						R	IF
IF President's Office	15	1	15	-	An office area for IF President.	-	Enclosed space.	-	I		I	F						R	IF
IF Secretary-General/Executive Director Office	15	1	15	-	-	-	-	-	I		F							G	IF
Reception, Secretariat, Waiting & Work Space	40	1	40	-	-	-	-	-	I		F							G	IF
IF Meeting Room	-	-	-	-	-	-	See IF & Sport Meeting Room.	-											
Jury Room	30	1	30	35	This space is utilised for the resolution of protests and appeals after competition.	Located in the Back of House, within the competition management area and in close proximity to athlete areas.	Enclosed space.	Assumes permanent and/existing space at the venue.	I			F						R	IF
Video Room	12	1	12	15	Area utilised by technical officials for video reviews of competition.	Located in Back of House, adjacent to Jury Room.	Enclosed space.	Assumes permanent and/existing space at the venue.											
Technical Delegates Office/Work Space	15	1	15	20	Office area for Technical Delegates.	In close proximity to IF President office area.	Enclosed space.	Assumes container units or existing space.	I		I	F					I	R	IF
IF Stands and Judges/Officials Seating	-	Varies	-	-	A designated seating area for IF Officials.	Located in accredited seating area.	-	-	I		J	J					J	R	IOC,IF
Sport Presentation																			
Sport Presentation	23	1	23	-	Area that produces all audiovisuals and entertainment for athletes and spectators present at the competition venue.	-	-	See Technology for additional requirements of Sport Presentation.											
Sport Production Control Room	20	1	20	-	An area that is required for event day announcing and music production.	Located near timing and scoring with a good view of the FOP.	Enclosed space with windows that open for hearing general audio on the FOP. The area interfaces with timing, results, scoreboard/video board, and sound system control.	-				F						P	
Announcer Position	3	1	3	-	-	-	-	-				F						P	
Sport Entertainment Room	40	1	40	80	Space used by colour guard, mascot dressing, entertainers used for breaks in competition, between sessions, half time, etc. Staging for large groups.	-	Enclosed space, consisting of work area, green room, entertainer staging and dressing and prop storage. See Venue Management - Multi-purpose Room.	Assumes container unit or existing space.					F					P	

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Technology Operations																			
Technology Help Desk	20	1	20	24	Help desk supporting all services and deliverables of OCOG Technology, including rate card devices and services. Staff accept calls for technology issues/problems, assign the issue a "ticket" within issues management system/database and advise appropriate personnel on venue to attend to issue. All issues tracked through to resolution.	Adjacent to or within Venue Technology Operations.	Medium security - lockable room, or within securable VTO. Standard office environment with workspace & FF&E to support multiple workstations, phone support workforce & manager.	The Help Desk and LAN Management may share a common space if necessary (e.g. when rooms or space are limited).					F					P	
Venue Technology Operations (VTO)	35	1	35	40	OCOG Technology Operations area. Operational work space for entire Venue Technology team, .	Adjacent to or within Venue Operations Centre (VOC).	Medium Security - lockable room. Air-conditioned office environment, adequate FF&E to support Technology operational staff & shared administrative facilities such as PC Workstations, Help Desk Workstation(s), Copy/Fax/Print, CATV, Lockable cabinets/cupboards & white marker board.	No specific spaces for partners and contractors. Time and Scoring partner (e.g. OMEGA) will use the OVR room. When not in direct operation, partner technicians can stand-by in the Technicians Intervention room.					F				G	P	
Technicians Intervention Room	35	1	35	40	A stand-by area for partner technicians when not in direct operation.	Located in close proximity to the VTO.	Enclosed space. Table and chairs. Shared area, separate desks not necessary.	-					F				G	P	
Radio Distribution Room (RDR)	30	1	30	18	Room for storage, distribution and charging of assigned radio units for venue workforce.	Preferable to be near or adjacent to Workforce Check-in area, or area that is easily accessible to all venue workforce (staff, volunteers & contractors).	Medium Security - lockable room. A/C and general office environment. Adequate FF&E and workspace for operator. Racks for radio storage.	Room may also be used as a general technology storage area for spare devices such as TVs & hand held phones. Size of room is dependant on quantity of radio devices deployed to venue and method of storage (on table or in racks).	I		F							P	
Information Technology																			
Computer Equipment Room (CER)	15	1	15	25	Area for all active IT equipment, including servers for Games Network and Administrative systems.	Adjacent to LAN Management room & Telecommunications TER Room.	High Security - lockable room. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT provider specification. Cable Access to TER Room. Workspace & FF&E for 2 technicians.	The TER and CER may share a common space if necessary (e.g. when rooms or space are limited). Raised flooring is preferable for cabling distribution, but not essential. Size of room will vary based on quantity of equipment racks installed. Generally rack requirements range between 4 - 8 at competition venues.	I		F						G	P	
Data Local Area Network (LAN) Management Room & Store	30	1	30	35	LAN monitoring room & associated storage space for spare IT equipment.	Adjacent to CER Room.	As CER with adequate FF&E for operational workforce & storage.	If located adjacent to CER, power supply boards, UPS units & A/C services can be common for both spaces. The Help Desk and LAN Management may share a common space if necessary (e.g. when rooms or space are limited).					F				G	P	

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Telecommunication & Audio Visual																			
Telecomm. Equipment Room (TER) Primary	45	1	45	50	Includes telecommunications equipment (PABX, structured cabling racks for data & voice, patching boards, active hardware (routers, switchers, etc.) and CATV venue head end for the on-Venue CATV distribution.	Adjacent to CER room & Telecommunications Operations Room.	High Security - lockable room. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet Telecom provider specification. Cable access to all CCF locations & CER. Working space for 2 technicians minimum.	The TER and CER may share a common space if necessary (e.g. when rooms or space are limited). Raised flooring is preferable for cabling distribution, but not essential.	I		F							P	
Telecomm. Equipment Room (TER) Secondary	36-50	Varies	Varies	-	Additional room required to house infrastructure to support mobile communications network.	Adjacent to TER and Telecommunications Operations.	As TER.	Requirement to be determined based on existing mobile infrastructure installed. Where there is no coverage or coverage is limited, additional infrastructure is required.	I		F							P	
Audio Control Positions	-	-	-	-	-	-	-	-			F						G	P	
Venue	4	1	4	8	Area for audio control & playback equipment and audio operators.	Area to be located as specified by Sport Presentation. Can be on FOP, in stands or in a booth with view to FOP.	High Security-lockable room. Fully redundant power (mains & generator), water proof, good cable access to control console & playback equipment. Space & FF&E for mixing console (1000W x 800D), playback rack (700Hx600Dx600w) and operators (2) maximum.	-											
Press Conference	4	1	4	8	Area for audio control equipment (mixing board, amplifier) and operator to support Press Conferences.	Within Press Conference room (at rear).	Medium Security. Fully redundant power (mains & standby), HVAC, weatherproof. Work space & FF&E for operator.	-											
Athletes Briefing	2	1	2	4	PA systems required for to facilitate announcements to athletes. Space required for amplifier/microphone.	Within briefing room/area for athletes.	Standard/mains power & FF&E.	-											
International Federation Area	2	1	2	4	PA systems required for Federation Area. Space required for amplifier/microphone.	Location as required by Sport/International Federation.	Standard/mains power & FF&E.	-											
Warm-Up Area	2	1	2	4	PA systems required for Warm-up areas to facilitate announcements to athletes. Space required for amplifier/microphone.	Located in athlete warm-up area.	Standard/mains power & FF&E.	-											
Venue Perimeter (Exit/Entry)	Varies	Varies	Varies	-	Venue Perimeter for Event Services' announcements to spectators at entry/exit.	Security screening entrance (mag & bag); venue entry/exit locations.	Standard/mains power & protection from weather to be provided.	-											
Workforce Break/Dining	2	Varies	Varies	-	Area within break/dining area where audio control equipment is installed to facilitate meetings/training of large numbers of workforce.	Workforce break/dining areas.	Standard/mains power & FF&E.	-											
Video Board Control	10	1	10	12	Area of video control for video board or video projection system. Operations integral with those of Sport Presentation.	Located within Sport Presentation area. View to FOP & video board/projection screen is essential.	High Security. Fully redundant power (mains & generator) to control equipment. Weatherproofing if control location is located outdoors. Space & FF&E for both control equipment & operators (2) maximum.	-			F						G	P	
Wired Communications Control	5	1	5	8	Area of wired communications master control station and support technician. System essential to operations of both Sport Presentation and Results/FOP management.	Located near or within Sport Presentation is recommended. Otherwise can be located in VTO or other secure location.	Medium Security. Fully redundant power (mains & standby generator) to control equipment. Weatherproofing in control location is located outdoors. Good cable access to FOP, OVR Room, Sport Presentation, Broadcast Graphics Room & Results Printing required.	-			F						G	P	

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Timing, Scoring and Results Operations																			
Timing and Scoring Position	-	-	-	-	Area(s) for event timing & scoring personnel & equipment during competition.	Located adjacent and/or close to FOP.	High Security Fully redundant power (mains & generator) with UPS to all timing & scoring equipment. Cable access to sport specific scoreboards, speed guns & OVR room. Space & FF&E for operators and equipment.	Where timing and scoring take place outdoors, adequate weather (rain/sun/snow) protection for equipment/workstations to be provided.	I	I	I	F						R	IF, OMEGA
Start Area	1	1	1	2	Position where clock is started for event.	Located with sport at race start position.	Cable access to OVR room between all intermediate timing points, aligner hut & start position.	-											
Control Room	20	1	20	25	Area for central Timing & Scoring control operations, including Backup C system, Event Management & photo-finish system.	Located near finish area with view to FOP.	Cable access to OVR Room, Photo Finish Control & Intermediate Positions along course.	-											
Finish Area	1	1	1	2	-	-	-	-											
On Venue Results (OVR)	-	-	-	-	Area is central compilation point for results operations. Space should be divided into two sections 1) for the OVR Provider 2) IT/Information Diffusion Provider.	-	High Security - lockable. Fully redundant power (mains & generator) with UPS to both Mains and Standby power boards. A/C to meet IT/OVR provider specification. Cable access to FOP/Results, Timing & Scoring Data Entry Locations, Broadcast Compound, scoreboard control, CER/TER rooms. Adequate space and FF&E for high density of computer workstations, racks for servers and working space for technicians, operators, and managers.	1) If sport is RTDS & or CIS then additional space is required to house equipment to support and monitor these systems. 2) If OVR is combined with Timing & Scoring or Scoreboard Operations, then will need a view to the FOP. 3) Sports with multiple FOP, or where two sports occur concurrently will require more space for additional OVR equipment.	I	F								P	IF, OMEGA
OVR Provider Work Space	20	1	20	25	Work area within OVR Location for OVR Provider technicians and managers where compilation of data from competition on FOP occurs, print of result for Technical Delegate sign-off occurs and data sent to IT provider for Information Diffusion (IDS) to information systems (INFO, CIS, PRD, etc.).	Ideally adjacent to IT provider work area.	-	-											
IT Provider Work Space	20	1	20	25	Work area within OVR Location for IT provider to monitor flow of data from OVR provider system to IDS.	Ideally adjacent to OVR provider work area.	-	-											
Scoreboard Control	-	-	-	-	Area for scoreboard control operations. Operations integral with those of Sport Presentation, data provided from OVR System. Space for both Control and Interface workstations & 2 x operational personnel.	Ideally with Sport Production, or with Timing/scoring team. View to FOP & public scoreboards is essential.	High Security. Fully redundant power (mains & generator) with UPS all scoreboard control & interface workstations. A/C to meet OVR provider specification. Cable access to scoreboards, & OVR room. Adequate space & FF&E for control equipment & operators (2) maximum.	If Control & Interface positions cannot be co-located, then Interface equipment to be installed to OVR Room. Control position must always have view to FOP & Scoreboards.	I	F							G	P	
Scoreboard Control	10	1	10	12	Area (Control position) for Public Scoreboard. Position for Scoreboard Operator & workstation control PCs.	Adjacent/co-located with Scoreboard Interface.	-	-											
Scoreboard Interface	4	1	4	6	Area for interface equipment (PC workstations) linking OVR system & Scoreboard Control workstation.	Adjacent/co-located with Scoreboard Control.	-	-											

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Results Printing (PRD)	Varies	1	Varies	-	Area for hard copy results production & distribution. Location of high intensity work involving many workforce preparing results for distribution. Within location are to be areas for results printing, copying, compilation/organisation of reports, runners seating area, room for Print Distribution Workstation (IDS interface) equipment and operator.	Located adjacent or in close proximity to Press Workroom. Easy access to Press Tribunes, Broadcast Commentary positions, Sport Information, Doping and Olympic Family for results delivery.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS provided for PRD Workstation only. Increased power specifications (Amps) may be required to support high speed copy devices. A/C to meet IT/OVR provider specifications. Adequate space for interface equipment and graphics operators and good cable access to OVR room. Adequate space for staff and FF&E required for operational staff as well as 1 pallet of paper to support print/copy operations.		I	I	I	F					I	R	IF
TV Graphics Interface	6	1	6	9	Area where OVR provider installs and operates Results Interface equipment to provide results data for TV Graphics.	Location within Broadcast Graphics Room or Technical Operations Centre (TOC), as specified by Host Broadcast Organisation.	High Security - lockable. Fully redundant power (mains & generator) all equipment in room, UPS TV Graphics Workstation & equipment. All environmental specifications to meet Host Broadcaster specifications. Space for interface equipment and graphics operations and good cable access to OVR room.				I			F			G	P	
Technology Storage																			
Technology General Storage	60	1	60	75	Area for storage of general technology spares/items such as extra TV units, cables, boxes etc.	Location within Logistics Compound, or in close proximity to VTO.	High Security - lockable. Weatherproof, standard mains power provided.	Space should be accessible to Venue Technology at all times.				F					G	P	
Timing and Scoring Storage & Workshop	20-30	1	20-30	25-35	In venue storage & workshop for timing equipment, spare parts & small containers/boxes.	Located in a position that is easily accessible to FOP & OVR rooms.	High Security - lockable. Standard office environment with standard power. Adequate work space & FF&E for two technicians.		I		F						G	P	
Technology General Infrastructure																			
Cross Connect Frames (CCF)	1	Varies	1	-	Intermediate network distribution location. Usually installed as a temporary cabinet containing racks of active and passive equipment required to distribute LAN cabling services to user locations. Permanent installations may be installed as a cupboard or closets.	CCFs are to be located in the best possible position for cabling distribution to user device locations areas. May be located centrally in a zone with multiple service locations, or within a dedicated location with a high volume of services, such as a Press Workroom.	High Security - lockable and weatherproof. May require fan or dedicated A/C depending on room location and/or configuration. Fully redundant power (mains and generator) to all CCF units/cabinets, rack-mounted UPS required to be installed inside cabinet.	Location of CCF units/cabinets will vary in size and location depending on the venue Local Area Network (LAN) design. Cabinets vary from wall hung 10 rack unit cabinets to larger 30 rack unit cabinets or purpose built closets/rooms.	I		F							P	
Cable Pathways	-	Varies	-	-	Permanent or temporary infrastructure installed to facilitate the running of cabling throughout the venue. Installed as cable trays, conduit, hangers or via other systems depending on specification of cable and distance required. The term cable pathway is also used to describe access pathways (holes) in walls/floors to allow for cabling distribution.	Cable pathways should be in areas that are accessible to technicians, either in ceiling areas, under raised floors or running neatly around working areas and between rooms.	High Security. To be installed so that cables cannot be interfered with adhering to regulations regarding segregation of power from data/voice and audio-visual cabling.	Quantity of cabling and cable pathway solutions are venue specific. Existing infrastructure should be used wherever possible and care taken to ensure that all cables are installed in an manner which allows for easy access and repair/replacement. Legacy installations should be installed as permanent while temporary (overlay) should be installed using methods which are easily installed and removed minimising potential damage to the existing structure or venue.				F						P	
Data Voice	-	-	-	-	Cable pathways to facilitate distribution of data and voice services throughout the venue, including cabling for all Games Network IT devices and telephones.	-	-	-											
Backbone	-	-	-	-	Pathways required to facilitate bulk cabling from TER to CCF locations. Usually cable tray or conduit.	-	-	-											
Horizontal	-	-	-	-	Pathways required to facilitate cabling from CCF to user device locations. Usually conduit, duct, wall hangers or cable ties.	-	-	-											

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CATV	-	-	-	-	Cable pathways to facilitate distribution of CATV (coaxial) cabling from TER to amplifiers and TV units.	-	-	-											
Timing & Scoring	-	-	-	-	Cable pathways from scoring devices to OVR room and sport specific scoreboards.	-	-	-											
PA/Audio	-	-	-	-	Cable pathways from Broadcast TOC to audio control location and from audio control position to equipment location (amplifiers) & audio speakers.	-	-	-											
Video	-	-	-	-	Cable pathways from Broadcast TOC to Video Control location and from Video Control location to video board/projection unit.	-	-	-											
Power	-	-	-	-	Cable pathways to facilitate distribution of all power services from venue mains to sub-distribution boards and end user locations.	-	Total segregation from all other technology cabling. Secure & weatherproof. Utmost care and safety to be undertaken when dealing with all power cabling.	-											
Backbone	-	-	-	-	Cable pathways from venue mains & generator boards to sub-distribution boards throughout venue.	-	-	-											
Horizontal	-	-	-	-	Cable pathways from mains & generator sub-distribution boards to user locations throughout venue.	-	-	-											
Scoreboard Infrastructure	-	-	-	-	Infrastructure required to support public scoreboards and sport specific scoreboards as detailed in venue design.	All scoreboard infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power for scoreboards, cable pathways to/from boards to scoreboard control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing and Scoring/OVR contractor.	I		F							P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of scoreboard support structure & scoreboard.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard. Required for outdoor venues where the scoreboards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and sport specific scoreboards from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each scoreboard.											
Video Board/Projection Infrastructure	-	-	-	-	Infrastructure required to support video boards and/or video projection systems as detailed in venue design.	All video board/projection infrastructure affinity is directly subject to requirements for viewing the boards by public, athletes and media on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I		F							P	
Footings	-	Varies	-	-	Structural concrete footings to facilitate installation of video board support structure & video board.	-	-	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the video board. Required for outdoor venues where the video boards cannot be suspended from ceiling structure.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend public and video boards and/or video projection systems from venue ceiling structure.	-	-	Extent of rigging required will depend largely on structural capacity of existing ceiling structure & fixing points available on each video board.											
Audio/PA System Infrastructure	-	-	-	-	Infrastructure required to support audio/PA speakers.	All Audio/PA infrastructure affinity is directly subject to requirements for deployment of systems to support Event Services & Sport Presentation on a sport specific basis.	Adequate power, cable pathways to/from boards to video control location. Weatherproofing as specified for boards installed outdoors.	The extent of infrastructure and power required will depend on exact requirements for each board provided by the Timing & Scoring/OVR contractor.	I		F						G	P	
Poles	-	Varies	-	-	Poles to facilitate installation of speakers in outdoor areas such as outdoor competition areas, common domains, venue security screening locations and/or venue entrance/exit locations.	-	Cable pathways to/from audio/PA amplification system and/or control location.	Design of footings is venue/scoreboard specific depending on the engineering requirements to support the scoreboard.											
Rigging/Suspension	-	Varies	-	-	Rigging (winches, chain motors, chain/cabling) required to suspend PA speakers from venue ceiling structure.	-	-	-											
Mobile Phone Infrastructure (antenna)	15	1	15	25	Infrastructure required to support installation of additional radio antenna & mobile phone cells within venue, or in surrounding venue "common domain" outdoors.	As required to maximise reception for venue radio system and/or mobile phone services.	Adequate power at antenna or mobile cell locations. Cable pathways to/from TER room.	For outdoor installations poles may be required to facilitate installation. Extent of requirements depends on existing coverage in venue or general Olympic precinct/complex.	I		F						G	P	

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Ticketing																			
Ticket Box Office	40	1	40	100	An area at the venue where Olympic tickets are sold.	Located in Front of House, adjacent to the secure perimeter; near the spectator entry point of the venue.	Gross area includes internal & external queue.	Assumes container unit with disabled access to internal and external service window. Dependant upon venue layout and footprint, spectator access point locations.										P	
Manager Office & Secure Storage	10	1	10	-	Work space and storage area for spectator tickets, ticket sales cash and documentation.	-	-	-											
Internal Ticket Sales Window(s)	15	1	15	-	Sales and problem resolution positions which face inside venue.	Inside venue perimeter.	6 windows, includes 1 at accessible height.	-											
External Ticket Sales Window(s) & Will Call	15	1	15	-	Sales and collection of tickets positions which face outside venue.	Outside venue perimeter.	6 windows, includes 1 at accessible height.	-											
Transport																			
Transport Area	25	1	25	50	An area where the venue Transport Manager will oversee the venue transport operations.	Generally located outside the secure perimeter.	Enclosed space. Space includes: Transport Manager desk, crew staging & break, secure storage.	Assumes container unit/trailer or tent. Dependent upon venue capacity and venue layout.										P	
Driver Staging	80	1	80	150	A break area for drivers that may be required to wait for passengers or be on-call for various transport assignments.	Located outside secure perimeter.	Covered area.	Assumes canopy with 2 side walls.										P	
Toilets	1.5	2	3	-	Toilet units designated for transport personnel.	-	Located outside venue secure perimeter.	Assumes temporary units. Accessible toilet facilities should be provided.											
Storage Yard	-	1	-	20	Holding area for various venue transport equipment (e.g. cones, barricades, signs).	May be located within the logistics compound area.	Fenced or barricaded area.	-										P	
Loading areas	-	-	-	-	An area where constituents will arrive to and depart from the venue by the constituent and/or Olympic transport system.	Adjacent to the secure perimeter and in close proximity to venue entry points.	Surface areas paved or gravel with heavy duty load capacity.	Area will vary from Host City, based on vehicle/bus types and local transportation legislation.											
Athlete Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.	J		J							P	
Team Vehicle - Van	-	1	-	100 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation. May only be applicable for certain sports.	J		J							P	
IOC, NOC, IF (Olympic Family) - Vehicle	-	1	-	50 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.			I	F						P	
ENG (Electronic News Gathering) - Uplink Van	-	1	-	30 (each)	-	-	-	Does not include vehicle circulation.				F			I			G	IOC
Media Shuttle - Bus	-	1	-	175 (each)	-	-	Includes pedestrian queue & staging area for equipment.	Does not include vehicle circulation.				F						G	IOC
Press Film Courier - Motorcycle or Vehicle	-	1	-	30 (each)	Pick-up location at the venue for the Olympic film courier.	Located in close proximity to Venue Media Centre.	-	Does not include vehicle circulation.	I		F							G	IOC
Spectator and Workforce Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.				F						P	
Sponsor Shuttle - Bus	-	1	-	120 (each)	-	-	Includes pedestrian queue.	Does not include vehicle circulation.	I		F							P	
Accessible	-	-	-	-	-	-	-	Part of Spectator total.				F						P	
Parking Areas	-	-	-	-	Designated parking areas at the venue for key accredited constituents.	Located adjacent to secure perimeter, generally inside the secure perimeter and/or secure parking areas.	Area only. Surface areas paved or gravel/hard pack surface.	Venue layout will determine amount of parking available at the venue.											
Olympic Family (IOC, NOC, IF)	-	-	-	32 (each)	-	Drop-off point located in close proximity to accredited entry.	Area only for parking.	May have drop-off in close proximity to accredited entry point and then driver will park.			I	F						P	
Broadcast	-	-	-	32 (each)	-	-	Generally, broadcast operations requires vehicle parking at the venue.	Some spaces for operational vehicles may be necessary in the Broadcast compound.				F			I			P	
ENG (Electronic News Gathering)	-	-	-	32 (each)	-	ENG drop-off located in close proximity to the Broadcast compound.	Area only for parking.	Generally, may have an ENG drop-off in close proximity to the Broadcast compound.				F			I			P	
Press & Photographer	-	-	-	32 (each)	-	-	Generally, media operations requires vehicle parking at the venue (including rate card).	-			J	J						P	
Security	-	-	-	32 (each)	-	Allocated an operational amount for inside the venue perimeter.	-	Includes vehicle circulation.				F			I			P	
Emergency Services	-	-	-	50 (each)	-	Generally located inside the secure venue perimeter.	-	Includes vehicle circulation.				F			I			P	
Vehicle Chain-up Area	-	-	-	700	Area that vehicles (cars, buses, etc.) use to install chains onto vehicle tires.	Located along venue access road.	-	Required only for mountain venues in which the access road has slope exceeding an 8% grade on gravel surface or 10% grade on paved road surface. May be dependent upon local legislation and/or requirements.				F			I			P	

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Venue Development																			
Site Management Compound	503	1	503	650	A service area where Site Management & Construction will operate at the venue, duties include management and maintaining all site activities (e.g. repairs/modifications to temporary and/or permanent facilities) and ensuring the safety of the venue by performing daily inspections of all areas and facilities.	Located in the Back of House area with easy access to various areas of the venue; generally may be located with Logistics or others as one compound area at the venue.	-	Gross area includes snow removal access. Dependent upon venue footprint, extent of temporary works and number of contractors.										P	
Site Management Area	60	1	60	-	-	-	Enclosed space.	Assumes container unit/trailer or tent.					F						
Site Manager & Assistant Site Manager(s) Work Space	12	1	12	-	Work and meeting area for the Site Manager and additional staff.	-	-	-											
Site Administration Desk & Work Space	12	1	12	-	Space to receive and log requests for maintenance and repair, store and review venue drawings and technical documents, manage keys and locking systems, work area for additional staff.	-	-	-											
Response Team & Vendor Staging	24	1	24	-	On-site permanent and temporary facilities for specialty workforce and general labor crew to be on-call.	-	-	-											
Secure Storage - Site Management	12	1	12	-	Area for storage.	-	-	-											
Construction Management Area	30	1	30	-	Meeting space for the facilities construction management team and work crew.	-	Enclosed space. Area for office, staging and a secure storage area.	Assumes container unit/trailer or tent. Contractor usually installs container units at their own cost.											
Sign/Look Staging, Work Space/Secure Storage	50	1	50	-	Area for holding, sorting, repairing of event signs, look materials and tools.	-	-	Assumes container unit/trailer or tent.											
Material Warehouse/Construction Work Space	80	1	80	-	The storage of bulk and finish construction materials. Area for the performance of various construction tasks, carpentry, painting, and assembly.	-	Enclosed space. Area for carpentry, painting and general construction. Storage for non-weather proof materials.	Assumes tent or canopy with 2 side walls.											
Vendor Secure Storage	60	1	60	-	Area for containers, usually provided by the various temporary construction sub-contractors.	-	Enclosed space.	Assumes container unit/trailer or tent or existing space.											
Materials Staging Area	50	1	50	-	Area for the off-loading and loading of bulk construction materials.	-	Area only.	-											
Exterior Storage Area	50	1	50	-	Outdoor storage of material and products.	-	Area only.	Weatherproof area for large and bulk materials.											
Vehicle Staging	90	1	90	-	Parking area for specialty and work vehicles which operate inside and the immediate area outside the venue.	-	Area only.	Service, Repair & Specialty vehicles.											
Toilets	1.5	2	3	-	Toilets units designated or shared with other compound personnel.	-	-	Assumes temporary units. Accessible toilet facilities should be provided.											
Power Bulk Store	15	1	15	18	Storage area for bulk electrical items, such as cable reels & spare distribution boards.	Bulk Storage location within Logistics Compound. Preferably near other Technology Bulk Storage locations.	High Security - lockable. Weatherproof. Fork lift/pallet jack access essential.	May be combined with Power Workshop if location & size of space meet requirements for venue.	I		F							P	
Power Workshop & Store	9	1	9	12	In venue storage area for spare electrical equipment & consumables workshop for electrical technicians.	Located in a position that is easily accessible to venue mains power boards and generators.	High Security - lockable. Standard office environment with general power. Workspace & FF&E for two technicians.	-	I		F							P	
Power Generators Location	Varies	4	Varies	-	Outdoor space for power generators; may require conduit and/or cable ramps under roads, paths, etc.	As noted below.	Area where generators are installed to be secure and easily accessible to allow for installation, removal and service. Space should be allowed around generators for technicians, re-fueling, and snow removal.	Size of Generators will vary depending on volume of critical power that requires "back-up". See Technology Infrastructure for cabling pathway information.	I		F							P	
Venue	Varies	2	Varies	-	Generators supporting critical venue operations including all primary technology spaces, results timing and scoring services, venue audio and video services.	Within the secured fence line. Adjacent to venue.	-	Generators also provide primary source of power to one half of the FOP lighting.											
Broadcast Compound	Varies	2	Varies	-	Generators supporting all broadcast technical spaces and other areas as specified by Host Broadcaster.	Within Broadcast Compound.	-	-											

Space Sub-space(s)	Net Area - m ²	Quantity	Total Net Area - m ²	Gross Area Requirement - m ²	Functional Description	Affinity	Functional Requirements	Other Variables	IF	Sponsor	IOC	OCOG	Venue Owner/Operator	Government	OBS-OBO	IPC	G - Generic Space	R-Requirement, G-Guideline, P-Precedent	Source of Requirement or Guideline: IOC, IF, L-Legislation
Venue Management																			
Venue Operations Centre (VOC)	60	1	60	90	An area that serves as the central location at the venue from where the Venue Manager will coordinate the operations of the venue team during the Games time period; key functional work areas may also be located within the VOC, along with venue team meeting/briefing areas.	Located in the Back of House area, generally in a central location with convenient access to all operational areas.	Enclosed space.	Assumed container units or existing space. Dependent upon venue capacity and venue layout.					F					P	
Venue Manager and Assistant Manager Space	12	1	12	-	An area for Manager and Assistant(s) Manager.	-	-	-											
Assigned Desks	20	1	20	-	Open plan work stations designated for Functional Area personnel.	-	-	Assigned work areas or desks in the VOC may vary among functional areas.											
Hot Desks	10	1	10	-	Shared work stations.	-	-	-											
Work Space and Storage	18	1	18	-	Non-designated work positions.	-	-	Copier, fax, storage. Lockable cabinets.											
Venue Communication Centre (VCC)	40	1	40	50	Serves as the hub for all operational communication in support of the venue team; coordinates all venue radio communications.	Generally, adjacent to the Venue Operations Centre and Security Command Centre; may be under a single roof within the Venue Operations Centre.	Enclosed space.	Assumes container units or existing space. Dependent upon venue capacity.					F					P	
Venue Communication Manager	4	1	4	-	An area for the VCC Manager.	-	-	-											
Mail & Fax Desk	4	1	4	-	Area for receiving, logging and sorting incoming and outgoing mail & facsimile.	-	-	-											
Communication Operators (VCC Operators)	24	1	24	-	Area for assigned radio talk group operators/monitors and telephone communication line operators.	-	-	-											
Storage	8	1	8	-	Equipment storage area.	-	-	-											
Multi-purpose Room (MPR)	150	1	150	180	Serves as a space which can be shared by all Functional Areas at the venue for meetings and other related needs.	Located in the Venue Operations Centre or in close proximity to VOC.	Enclosed space.	Potential User Groups: 1. Venue Workforce daily briefing. 2. Security Briefing. 3. Sport Operation meeting room. 4. Major Incident room. 5. Entertainment staging.					F					P	
Snow Removal Compound	-	-	-	-	A service area where the snow removal contractor operates at the venue and performs the snow removal.	Located in the BOH area; adjacent to or within the Logistics or Waste Management compounds.	-	-											
Equipment Storage	15	1	15	-	Area for storage of snow removal equipment.	-	May require covered and enclosure.	-											
Truck & Equipment Staging	50	Varies	Varies	-	Area for staging of snow removal vehicles and equipment	-	May require covered and enclosure.	Number required may vary according to layout and/or size of venue.											
Supply Storage Area	50	Varies	Varies	-	Area for storage of supplies that may be required for snow removal (i.e. salt).	-	May require covered and enclosure.	Number required may vary according to layout and/or size of venue.											
Snow Storage / Removal Area	-	-	-	200-2000	An area or location where snow can be stored after it is removed from operational areas of the venue.	Located outside of operational areas of the venue.	Area only for dumping of snow removed areas of the venue. May require multiple locations that may exist off venue or outside the venue perimeter.	Area requirements will be based on size of venue. Snow removal may require hauling/transport to off venue location.											
Workforce																			
Workforce Area	150	1	150	180	An area that serves as the central point where all venue workforce check-in and may exit the venue or check-out if necessary; from this point workforce deploy to their respective functional area; meal privileges/coupons may be distributed at this time.	Adjacent to the venue perimeter where the workforce can access without entering the venue; in close proximity to workforce entrance and Venue Accreditation Office.	Enclosed space.	Assumes tent.					F					P	
Check-In Area	96	1	96	-	Area to log-in venue workforce and contractors by day or shift.	-	Check-in desks.	-											
Workforce Manager Office	12	1	12	-	Office area for Workforce Manager.	-	-	-											
Information Desk, Lost & Found & Work Space	12	1	12	-	An area where venue information is available to workforce and also serves as non-designated work positions.	-	-	-											
Distribution Desk	6	1	6	-	Area for distribution of goods (e.g. sunscreen, daily venue news letter) to workforce.	-	-	-											
Workforce Break & Dining Area	335	1	335	400	The space where workforce meals are served and where workforce can break during shifts.	A location that will provide easy access to all venue workforce for breaks and meals; will vary according to venue layout/distances.	Enclosed space.	Includes Seating Area, Buffet, Food Preparation Area, Packaged Snacks & Beverage Area & Voucher Take and Queue. Dependent upon venue workforce numbers.					F					P	
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