



Report Type: Full Utility Search

Apogee Job Number: 421488

Client Site Name: Keir Hardie Way

Client Job Number: 169/20

Report Speed: 20 (Working) Day

Percentage Complete: 100%

No. Utilities Affected: 7



C2 Stats Plans Responses Summary

Apogee Job Number: 421488

Client Site Name: Kier Hardie Way


Percentage Complete: 100%

Client Job Number: 169/20

Utility Name	Utility Type	Affected	Not Affected	No Response Received	Comments
UKPN	Electric	04/09/2020			
Utility Assets	Electric		15/09/2020		
Cadent	Gas	04/09/2020			
Engie	Multi		07/09/2020		
GTC	Multi		04/09/2020		
Last Mile (Energetics)	Multi		07/09/2020		
Essex & Suffolk Water	Water	14/09/2020			
Thames Water	Sewerage	04/09/2020			
BT	Telecoms	04/09/2020			
Vodafone (C&W, Energis, Thus)	Telecoms	08/09/2020			
Virgin Media	Telecoms	08/09/2020			
Cityfibre	Telecoms		04/09/2020		
Colt (CA Telecom)	Telecoms		09/09/2020		
EUNetworks	Telecoms		09/09/2020		
Instalcom Centurylink	Telecoms		09/09/2020		
Instalcom KPN	Telecoms		10/09/2020		
Kcom	Telecoms		04/09/2020		
Sky	Telecoms		04/09/2020		
Sota	Telecoms		10/09/2020		
Telent	Telecoms		14/09/2020		
Verizon	Telecoms		04/09/2020		
Linesearch	Linesearch	04/09/2020			
Mast Data	Telecoms		04/09/2020		
Trafficmaster	Infrastructure		07/09/2020		
Lon Underground	Infrastructure		07/09/2020		
Lon Overground	Infrastructure		04/09/2020		
PO/Tun	Infrastructure		04/09/2020		
Crossrail	Infrastructure		04/09/2020		
Network Rail	Infrastructure		04/09/2020		
Coal Authority	Mining		04/09/2020		

See end of report for acronyms key, basic risk assumptions and further information on how to interpret and use the information in this report.



Job No:	421488
Approved by:	Jeremy Haigh
Date of First Issue:	18/09/2020
Signature:	

Date	Version	Created by	Description of change
18/09/2020	0.1	David Haigh	First & Final Issue

Our Ref: 19837584 Your Ref: 421488

Friday, 04 September 2020

Max Coetzee
Blount House Hall Court Hall Park Way
Telford
Shropshire
TF3 4NQ

Dear Max Coetzee

Thank you for contacting us regarding UK Power Networks equipment at the above site. I have enclosed a copy of our records which show the electrical lines and/or electrical plant. I hope you find the information useful.

I have also enclosed a fact sheet which contains important information regarding the use of our plans and working around our equipment. Safety around our equipment is our number one priority so please ensure you have completed all workplace risk assessments before you begin any works.

Should your excavation affect our Extra High Voltage equipment (6.6 KV, 22 KV, 33 KV or 132 KV), please contact us to obtain a copy of the primary route drawings and associated cross sections.

If you have any further queries do not hesitate to contact us.

Plan Provision
0800 056 5866



This information is made available to you on the terms set out below. If you do not accept the terms of use set out in this fact sheet please do not use the plans and return them to UK Power Networks.

1. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk.
2. UK Power Networks does not exclude or limit its liability if it causes the death of any person or causes personal injury to a person where such death or personal injury is caused by its negligence.
3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise how for any loss, damage, costs, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.
4. The information about UK Power Networks electrical plant and/or electric lines provided to you belongs to and remains the property of UK Power Networks. You must not alter it in any respect.
5. The information provided to you about the electrical plant and/or electric lines depicted on the plans may NOT be a complete record of such apparatus belonging to UK Power Networks. The information provided relates to electric lines and/or electrical plant belonging to UK Power Networks that it believes to be present but the plans are not definitive: other electric lines and/or electrical plant may be present and that may or may not belong to UK Power Networks.
6. Other apparatus not belonging to UK Power Networks is not shown on the plan. It is your responsibility to make your own enquiries elsewhere to discover whether apparatus belonging to others is present. It would be prudent to assume that other apparatus is present.
7. You are responsible for ensuring that the information made available to you is passed to those acting on your behalf and that all such persons are made aware of the contents of this letter.
8. Because the information provided to you may not be accurate, you are recommended to ascertain the presence of UK Power Networks electric lines and/or electrical plant by the digging of trial holes. Trial holes should be dug by hand only.

Excavations must be carried out in line with the Health and Safety Executive guidance document HSG 47. We will not undertake this work. A copy of HSG 47 can be obtained from the Health and Safety Executives website.

All electric lines discovered must be considered LIVE and DANGEROUS at all times and must not be cut, resited, suspended, bent or interfered with unless specially authorised by UK Power Networks.

The electric line and electrical plant belonging to UK Power Networks remains so even when made dead and abandoned and any such electric line and/or electrical plant exposed shall be reported to UK Power Networks.

Where your works are likely to affect our electric lines and/or electrical plant an estimate of the price of any protective /diversionary works can be prepared by UK Power Networks Branch at Metropolitan House, Darkes Lane, Potters Bar, Herts. , EN6 1AG, telephone no. 0845 2340040



- 9 Any work near to any overhead electricity lines must be carried out by you in accordance with the Health and Safety Executive guidance document GS6 and the Electricity at Work Regulations.

The GS6 Recommendations may be purchased from HSE Books or downloaded from the Energy Networks Association's website.

If given a reasonable period of prior notice UK Power Networks will attend on site without charge to advise how and where "goal posts" should be erected. If you wish to use this service, in the first instance please telephone: 0845 6014516 between 08:30 and 17:00 Monday to Friday.

10. You are responsible for the security of the information provided to you. It must not be given, sold or made available upon payment of a fee to a third party.
11. If in carrying out work on land in, on, under or over which is installed an electric line and/or electrical plant that belongs to UK Power Networks you and/or anyone working on your behalf damages (however slightly) that apparatus you must inform immediately UK Power Networks by our emergency 24 hour three digit telephone number **105** providing;
- your name, address and telephone number;
 - the date, time and place at which such damage was caused;
 - a description of the electric line and/or electrical plant to which damage was caused;
 - the name of the person whom it appears to you is responsible for that damage;
 - the nature of the damage.
12. The expression "UK Power Networks" includes UK Power Networks (EPN) plc, UK Power Networks (LPN) plc, UK Power Networks (SEPN) plc, UK Power Networks and any of their successors and predecessors in title.





Think
before you...



DIG UNDER GROUND



THINK . . .

Every year people are killed or seriously injured in incidents involving underground electricity cables.



THE DANGER

Underground cables carry a powerful electrical charge which can be conducted through machinery and equipment with fatal consequences. Anyone working close to live underground cables should take time to read this simple safety leaflet and identify the precautions they should be taking.



WHO IS AT RISK?

People in construction, demolition, agriculture, infrastructure or anywhere else where excavation is taking place. That is why it is vital everyone working on or visiting a working site is fully aware of the hazards and the steps that must be taken to avoid them.



HOW INCIDENTS HAPPEN

Sadly, accidents where excavators, breakers or other tools make contact with power cables are not uncommon. Where equipment or machinery is used near underground cables the risk must be considered and controlled in the interests of everyone.

THINK AHEAD

Get the basics right. Familiarise yourself with the site. Mark the route of underground cables running across the site on all plans circulated to staff. Find out if the work could be carried out away from the cables, or avoided all together.

UK Power Networks is committed to safety and actively encourages anyone undertaking work to contact us in advance for advice and free cable locating maps.

These will help you avoid our underground cables during your work, which is vital for your safety as well as ensuring we can provide a reliable supply of electricity.

For free maps and advice call **0800 056 5866** or write to:

Plan Provision

UK Power Networks

Fore Hamlet

Ipswich

IP3 8AA

plans@ukpowernetworks.co.uk

We can advise you on what steps to take if essential work is necessary close to underground cables and help ensure safe working practises are implemented.

Good management reduces the risk of accidents. With proper planning and control, workers should not come into contact with underground cables.

If excavation work forms a part of your day-to-day activities obtain a copy of the Health & Safety Executive's Guidance Note "Avoiding Danger from Underground Services" HSG47, which is free to download from the HSE's website - **www.hse.gov.uk/pubns/priced/hsg47.pdf**



WHAT TO DO

- **Have cable drawings and records on site**, know how to read them and check them before starting work. Be aware that not all cables may be shown on the records.
- **Look around for anything in the vicinity** that would have an electricity service, such as street lights, CCTV cameras, phone boxes, etc. as well as the more obvious things like houses and industrial units.
- **Always** use a cable avoidance tool (CAT) to survey the entire site before digging commences. Once found, mark cable positions with spray paint or similar. Do not forget to use encroachment lines as well.
- **Dig trial holes**, by hand, alongside the indicated route of the cables(s).
- Use spades and shovels with **insulated handles** in preference to forks and picks.
- **Make sure everyone** on site, including visitors, **understand the risks**.
- If there is a **cable encased in concrete** contact **UK Power Networks to agree a safe method of work**. This may mean making the cable dead.
- Before demolishing a building **make sure that supplies are disconnected**, preferably well clear of the work area.
For guidance on how to arrange a disconnection visit www.ukpowernetworks.co.uk – Our Services
- Have the **emergency contact telephone number** easily available on site.



WHAT NOT TO DO

- Never allow anyone near a damaged or suspected damaged cable or joint.
- Do not handle or attempt to alter the position of a cable or joint.
- Never assume that cables run in straight lines, they may be deflected around underground obstacles.
- Do not use mechanical excavator or powered digging tool within the vicinity of known cables.
- Never knock a road pin, or forcibly throw a spiked digging tool into the ground, without checking what is below the surface.





IF A CABLE IS DAMAGED

Notify UK Power Networks immediately:

London 0800 028 0247

East of England 0800 783 8838

South East 0800 783 8866

Call the emergency services if anyone is injured. Anyone who has received an electrical shock should go to hospital as damage may have occurred to the heart.

Always **treat the cable(s) as live** even if they are not sparking.
Cables can be re-energised at any time without warning.

Never remove anything that is stuck **in a cable**.

Keep everyone well away from the area of the damage.

Do NOT attempt to remove anything that is in contact with the cable.



PLAN IT OUT

**CHECK IT OUT BEFORE
YOU DIG UNDER GROUND**





DANGER OF DEATH

THINK BEFORE
YOU DIG

Call the network operator

0800 587 3243

www.ukpowernetworks.co.uk

If you are unsure of your network operator then please
visit www.energynetworks.org



Network Records NetMAP Symbols Booklet - London

This symbol booklet is intended as a general guide only - some local variations of these symbols may be found.

Version 1.2

Released October 2010

Always check with your local Network Records office or the UK Power Networks server to ensure that you are using the most up to date copy of this booklet. Tel: 08000 565866

Index:-

Page no:	Contents:
1	Guidance notes.
2	The area covered by this guide.
3	Scenery.
4	Scenery (UK Power Networks use only-boxed red)
7	Primary distribution cables (EHV).
8	Secondary distribution cables (LV/HV).
9	Cable terminology.
10	Cable size abbreviations.
11	Cable ducts.
12	Other NetMAP symbols.
15	Services.
17	Symbols used in cross sections.
19	Abbreviations used in cross sections.
20	Typical plan and cross section representations: <ul style="list-style-type: none">All areas: NetMAP/vector.All areas: composite raster style 1.Ex-Western area and Holborn: main and ways.The City of London: single line.Finsbury and Shoreditch: multi-single line style 1.Ex-North Eastern area: HV/LV.Ex-North Eastern area: multi-single line style 2.Ex-North Eastern area: composite raster style 2.
23	Regional NetMAP anomalies - general overview.
24	Region 1: ex-Western area.
25	Region 2: ex-Northern area.
27	Region 3: ex-North eastern area.
29	Region 4: ex-South Eastern area.
30	Region 5: ex Southern area.

Guidance notes.

Important notice:

If you do not understand the NetMAP record that you are using, please contact UK Power Networks Network Records for guidance

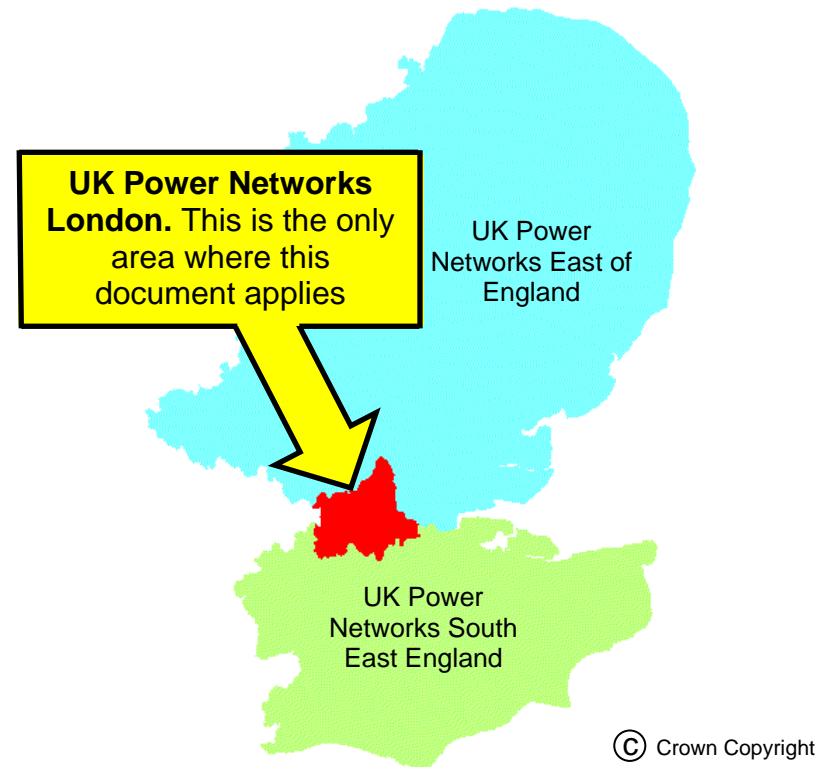
Tel: 08000 565866.

- The position of apparatus shown on NetMAP is believed to be correct, but the original landmarks may have altered since the apparatus was installed.
- It must be assumed that there is at least one service to each property, lamp column, street sign etc. A separate record may be available.
- When excavations are to be carried out near Extra High Voltage (EHV) cables, further details must be obtained before commencement of work.
- Third party cables are not usually shown.
- When two or more maps are supplied for the same area, the maps must be read in conjunction with each other and with this symbol booklet.
- All LV cables are assumed to be 4 core, and all HV cables assumed to be 3 core – unless otherwise stated.
- All Imperial cable sizes are assumed to be copper and all metric cable sizes are assumed to be aluminium – unless otherwise stated.


























**Plan Provision Team
Fore Hamlet
Ipswich
Suffolk IP3 8AA
Tel: 08000 565866**

The area covered by this guide:


















Please see the anomalies map at the end of this safety booklet for greater map area detail, and a breakdown of the more significant anomalies within the London area.

Scenery		
NetMAP system	Scanned image	Description
		100 metre Ordnance Survey grid line (on O/S based maps only)
		Property fence line
		Building line
		Kerb line
		Kerb line on majority of ways & mains maps
		Cable tunnel or subway
NOT APPLICABLE		Borough or City boundary and UK Power Networks boundary
	or 	
		UK Power Networks or Electrical boundary
	or 	








Scenery for UK Power Networks use only - boxed in red		
NetMAP system	Scanned image	Description
 Inset Network – Contact xxxx IDNO for further information	Not applicable	Area of inset network - not the asset of UK Power Networks (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Proposed Cross Rail route (only visible to of UK Power Networks and their immediate contractors)
	Not applicable	High pressure pipelines in the general vicinity (only visible to of UK Power Networks and their immediate contractors)
Note: Pipelines are only viewable on NetMAP by UK Power Networks staff and their immediate contractors. Do not carry out any excavation without consent from the relevant agency - legally protected high pressure petroleum products pipeline route in the general vicinity - consult www.linewatch.co.uk for contacts and guidance. Pipeline contact numbers can also be found on the intranet – out of hours, contact our Control Centre.		
	Not applicable	Water - surface water (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Water - Source Protection Zone 1 (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Water - Source Protection Zone 2 (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Water - Source Protection Zone 3 (only visible to UK Power Networks and their immediate contractors)

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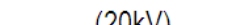
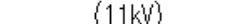
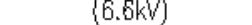







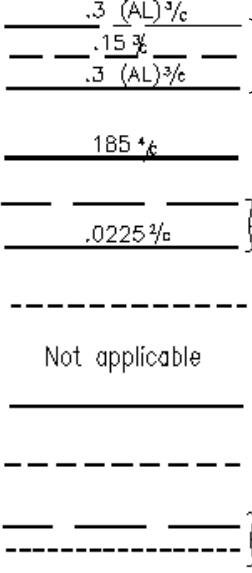
Scenery for UK Power Networks use only - boxed in red		
NetMAP system	Scanned image	Description
	Not applicable	Historical - Scheduled Monuments (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Historical - Parks and Gardens (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Historical - Areas of Archaeological Potential (AAP) (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Nature - Ramsar Wetlands of International Importance (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Nature - Special Area of Conservation (SAC) (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Nature - Special Protected Area (SPA) (only visible UK Power Networks and their immediate contractors)
	Not applicable	Nature - Site of Special and Scientific Interest (SSSI) (only visible to UK Power Networks and their immediate contractors)
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Scenery for UK Power Networks use only - boxed in red		
NetMAP system	Scanned image	Description
	Not applicable	Nature - Local Nature Reserve (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Nature - National Nature Reserve (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Nature - Area of Outstanding Natural Beauty (AONB) (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Nature - National Park (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Fluid filled cables - very high sensitivity (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Fluid filled cables - high sensitivity (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Fluid filled cables - medium sensitivity (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Fluid filled cables - low sensitivity (only visible to UK Power Networks and their immediate contractors)

Primary distribution cables

NetMAP system	Scanned image	Description
 Solid  Gas  Oil  Cable stop  Shallow	 EHV Cable Route 259 Not applicable 	UK Power Networks route (11,000 , 22,000 to 132,000 volts) Oil/gas cable stop Part of UK Power Networks cable route where cover is less than normal

Secondary distribution cables

NetMAP system	Scanned image	Description
 (20kV)  (11kV)  (6.6kV)       		HV cable (up to 20kV) 3 phase LV cable (230V or 400/230V) 1 or 2 phase LV cable (230V or 400/230V) Pilot or Telephone cable, often not shown in plan if running with other cables Fibre-optic cable Earth cable HV or LV cable in duct Duct route(s) not containing live cables

Cable terminology		
NetMAP system	Scanned image	Description
PL	PL	Paper Lead
PLS	PLS	Paper Lead Served
PLST or PLSW	PLA	Paper Lead Armoured
PLSTS	PLTS	Paper Lead Steel Tape Served
PLSTS	PLDT	Paper Lead Double Tape
PLSWS	PLWS	Paper Lead Steel Wire Served
PLSW	PLBW	Paper Lead Bright Wire
PLS	LC & H	Lead Covered & Hessian
PLST or PLSW	LC & A	Lead Covered & Armoured
PLSW	LC & BA	Lead Covered & Bright Armoured
PLST	DSTA	Double steel tape armoured
PLST	STA	Steel Tape Armoured
PLSW	SWA	Steel Wire Armoured
Al	Al	Aluminium
Cu	Cu	Copper
WV	WV	Waveconal
CS	CS	Consac
PVC	PVC	Polyvinyl Chloride
EPR	EPR	Ethylene Propylene Rubber
XLPE	XLPE	Cross Linked Polyethylene
SOL	SOLIDAL	Solid Aluminium
ax	TRIPLEX	Triplex (aluminium)
cx	TRIPLEX	Triplex (copper)


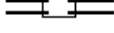

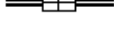







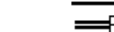


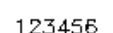
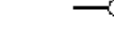

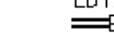





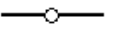



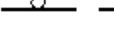
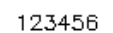

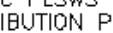
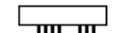
Cable size abbreviations		
NetMAP system	Scanned image	Description
1c	$\frac{1}{c}$	Single core.
c/c	$\frac{9}{c}$	Concentric cores
t/c	$\frac{7}{c}$ or $\frac{7}{cc}$	Triple concentric cores
4c	$\frac{4}{c}$	Four cores
3c CNE	$\frac{3}{c}$ (CNE)	Three cores and concentric neutral – not of the Waveconal type
2c	$\frac{2}{c}$ (or Tw)	Two cores (or twin)
s/c	$\frac{9}{c}$	Split concentric cores
3c	$\frac{3}{c}$	Three cores
DC	DC	Direct current
P	P	Pilot
Pr	Pr	Number of telephone pairs

Cable ducts		
NetMAP system	Scanned image	Description
		Single empty ducts
		Cluster of empty ducts (two or more)
		Cable in single duct
		Group of cables shown in a cluster of ducts, plus one or more empty (shown in section)
		Ex-Western area 'ways' maps: This symbol indicates one or more ducts. On City of London area maps "extent of ducts" symbols are not in general use as most duct runs are between pits or boxes

Other NetMAP symbols		
NetMAP system	Scanned image	Description
0.3 4c AL PLSWS (Details also in cable attributes and/or section)		Cable size (and year laid)
		Cable capped end
		Cable pressure (or pot) end or signal end
		Pressure/pot end & earth cable/electrode
		Earth rod (vertical)
		Earth rod (horizontal)
		Earth plate
		Earth plate or end
		Bottle or trouser joint or combined crutch & pressure end - (CPE)
		Straight joints
		Tee joints
		Crutch (or spur) joints (CJ) straight & crutch joints combined (S&CJ)
		Double crutch (or spur) joint
		Sleeve
		Disconnected universal tee


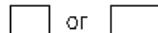

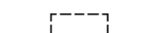



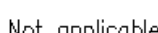








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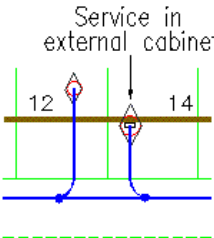
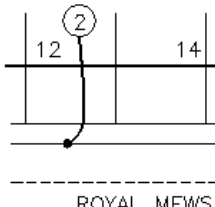
Other NetMAP symbols

NetMAP system	Scanned image	Description
		Four way underground disconnecting boxes(DB)
		Link boxes(LB)
		Network boxes(NB) or (NWB)
		4 way 6 entry
		6 way box
		6 way 8 entry
		Split bus-bar
		Link box with identification number
		3 way underground disconnecting boxes
		2 way underground disconnecting boxes
		1 way underground disconnecting boxes
		Feeder pillars
		Split bus-bar distribution pillar
		Double bus-bar distribution pillar
		Blind pit/pit
		Pit with access

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Other NetMAP symbols









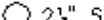













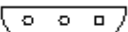
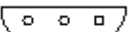


NetMAP system	Scanned image	Description
		Transformer chambers (T/C) & transformer compounds
		Underground transformer chamber
		Missing data in or near this location
		Underground tank
		Indicates service between separate buildings is looped
		Jointing schedule numbers or phasing diagram
		Contaminated land reference
		Instrument traced cable or ITC - cable traced electronically using Cable Avoidance Tool (CAT) or similar

Services		
NetMAP system	Scanned image	Description
<p>SRC = Service Record Card</p> <p>To a property/metered supply (also see SRC)</p> <p>Address point ◇</p> <p>Supply point ○</p> <p>Also see SRC and joint/cable attributes</p> <p>Service in external cabinet</p>  <p>Also see SRC and joint/cable attributes</p>		
	<p>To a property/metered supply (also see SRC)</p> <p>Also see SRC</p> <p>(W) Single phase service</p> <p>(1) Connected to 1 core & neutral</p> <p>(R) Connected to red core & neutral</p> <p>(⊗) Three phase service</p> <p>(+) Connected to inner & outer cores of triple conc cable</p> <p>(-) Connected to middle & outer cores of triple conc cable</p> <p>(⊕) Connected to all three cores of triple conc cable</p> 	<p>Existence of a service with its core connection shown in circle</p>

section continued on next page













Services		
NetMAP system	Scanned image	Description
<p>To street furniture/un-metered supply (also see SRC)</p> <p>Please note that newly edited street furniture no longer has an address point or an SRC</p> <p>(Street furniture general)</p> <p>(Street furniture feeder pillar or cabinet)</p>		
	<p>(Street furniture general)</p> <p>(Street furniture feeder pillar or cabinet)</p> <p>P.L.S.261 LC S.L.261 WB TL FB TS B IGP TK TCB TK,TC FP</p>	<p>Public lighting</p> <p>Street lighting</p> <p>Wall bracket</p> <p>Traffic light control</p> <p>Flashing beacon</p> <p>Traffic sign</p> <p>Bollard/illuminated guard post</p> <p>Telephone kiosk, traffic controller, feeder pillar</p>

Symbols used in cross sections

NetMAP system	Scanned image	Description
		Cable laid direct
		Cable laid in duct
		Blocked duct (sometimes used for unidentified cables)
		Single earthenware duct
		Single steel pipe
		Square cable duct
		Group of circular ducts
		Group of circular ducts (Sykes)
		Group of square ducts (Doulton)
		Cable trough
		Bitumen casing (Crompton)
		Bitumen filled iron trough (Trunks)
		Bitumen casing (Tri-case)

section continued on next page

Symbols used in cross sections

NetMAP system	Scanned image	Description
		Protective slab
		Tiles.
		Concrete slabs
		Steel plate
		Plastic tile tape
Timber 		Timber

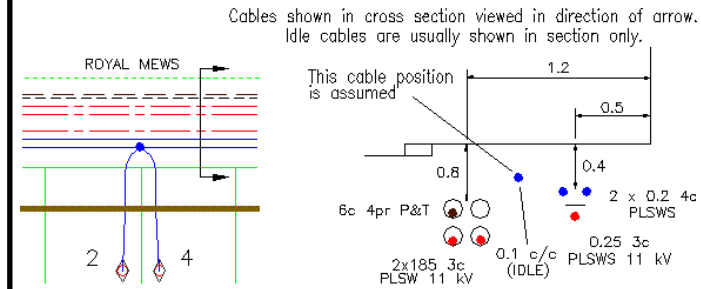
Abbreviations used in cross sections

NetMAP system	Scanned image	Description
EW	E.W.D(s) or EW.	Earthenware ducts
F	F.P or F or F.D	Fibre duct
A	ASB or A	Asbestos
P	P	Plastic or pitch fibre
S	S.P or S	Steel
C	C.I or C or C.I.P	Cast iron
WI	W.I	Wrought iron pipe
F	F or F.D	Fibre duct
PRD	PRD	Plastic Rigiduct
Left blank – means NR	{ D.N.K or D:NR N.R or (N.R)	Depth not known No record
E.V	E.V.P or E.V	Everite pipe
T/T	T/T	Tape Tile
N/A	3/62 or NOV 79	Date cable laid
N/A—destination now only shown in cable attribute	ABCD etc	HV cable destination (See section sheet HV ref)
	Please note: Ducts are assumed to be 4"/100mm earthenware – unless otherwise stated	

Typical plan and cross section representations

Multi-line composite NetMAP/vector representation

All areas – drawn/redrawn using NetMAP GIS

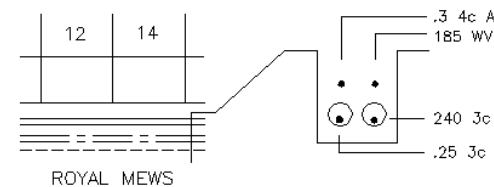


Applies to all composite vector records in both shaded and unshaded areas of the anomalies map.

Multi-line representation - general composite raster (style 1)

All areas

All cables are shown on plan and represented in section.
Sections may be shown in plan view or on a supplementary sheet.

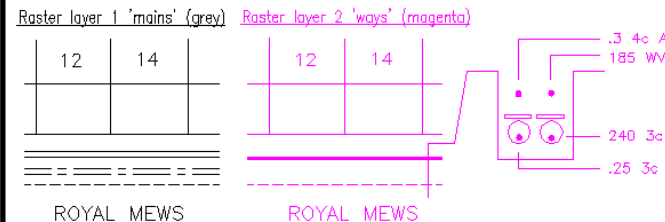


Applies to all composite raster records within the unshaded areas of the anomalies map.
Can also be found in some shaded areas – in particular the ex-North Eastern shaded areas 3 (b) and 3 (c)

Main and ways representation – dual layer raster

Ex Western area Holborn and parts of Ex-South Eastern Area only

All cables are shown on plan and represented in cross section on a separate (ways) sheet.



Applies to area 1(a) of the anomalies map.

Applies to area 2(a) of the anomalies map.

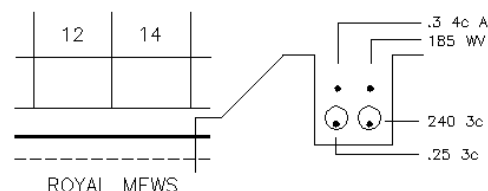
Typical plan and cross section representations

Single line representation - raster or vector data

The City of London only

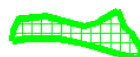
All cables are shown as a single line in plan.
Sections may be written and not drawn.

OR this style may be used.



1-3 way Tricase
2-2½" steel pipes
1-6 way Doulton
4% (L.V. cable)

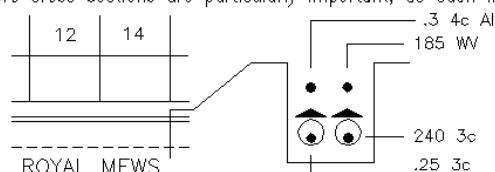
Applies to area 2(b)
on the anomalies map.



Multi-single line representation general (style 1)

Finsbury and Shoreditch only

Only the top cables in a vertical cable run are shown in the plan view. See the example below.
Note that the two lower cables that are in ducts (in this instance), are not shown in plan.
Therefore cross sections are particularly important, as each line represents one or more cables.



Applies to area 2 (c)
of the anomalies map.

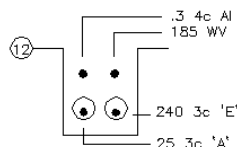
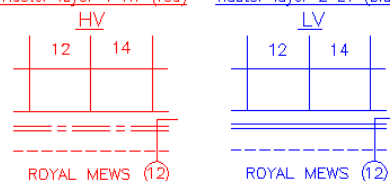


HV and LV map representation – dual layer raster

Ex-North Eastern area only

HV and LV cables are shown on separate raster layers. These layers MUST be read in conjunction with each other. Sections are shown on a combined supplementary section sheet in numerical sequence.

Raster layer 1 HV (red) Raster layer 2 LV (blue) Separate raster section sheet



Applies to area 3(a)
of the anomalies map.

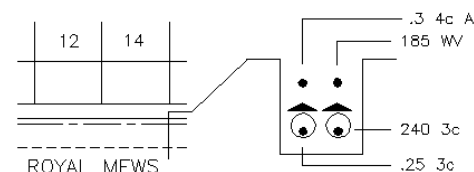


Typical plan and cross section representations

Multi-single line representation general (style 2)

Ex-North Eastern area only

In this area each voltage (HV and LV) is represented as an individual line. For example, three HV cables and four LV cables in the same run will be indicated by a single HV line and a single LV line. Therefore cross sections are particularly important, as each line represents one or more cables of that voltage.



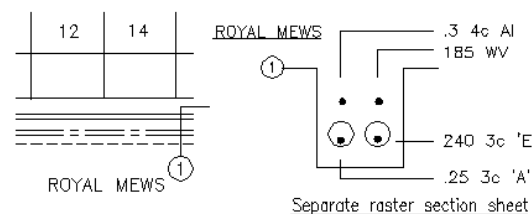
Applies to area 3 (b)
of the anomalies map.



Multi-line representation - composite raster (style 2)

Ex North Eastern area only

All cables are individually shown in plan.
Sections are shown on a supplementary section sheet and recorded under the relevant road name.



Applies to area 3(c)
of the anomalies map.



Important note regarding sections:

It does not follow that if the number of cables shown in the cross section have been located, that all live cables have been found. You may have found an unrecorded cable, or a cable belonging to another authority.

Regional NetMAP Anomalies - general overview:

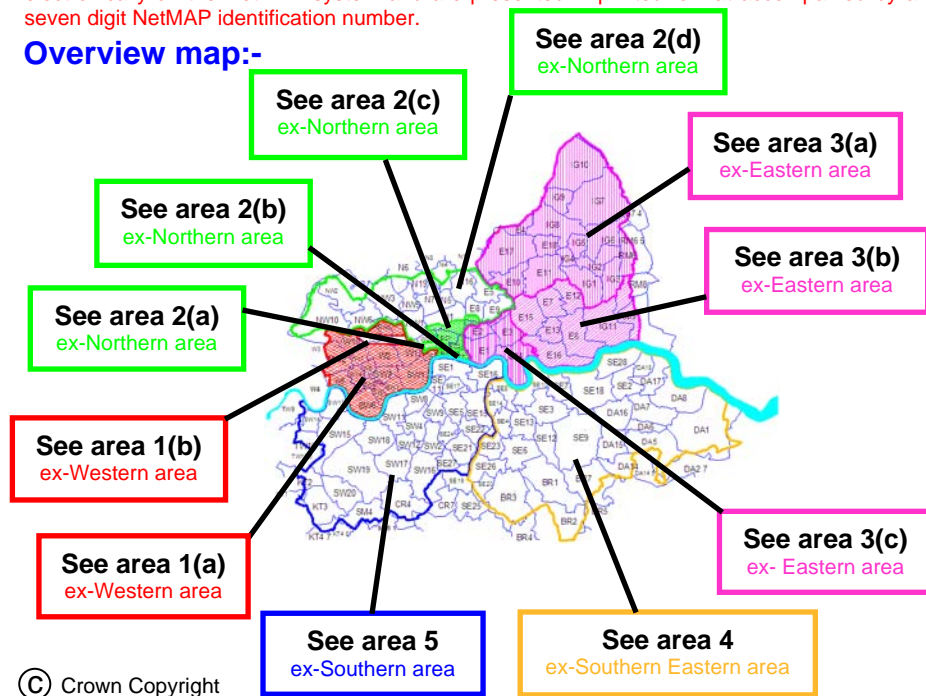
The following pages explain the various major map style anomalies found within the London area. These styles are a legacy from the five individual London Electricity areas which were again formed from seventeen separately organised LEB districts. Areas with significant anomalies are shown in the following pages as cross-hatched areas. Areas with standard composite vector and raster layer information are shown as un-hatched areas.

Cautionary note: - any region or sub-region, either shaded or un-shaded, may contain some local anomalies not mentioned in the following pages – if in doubt, please contact the UK Power Networks Plan Provision team on telephone number 08701 963797.

All regions (1-5) will contain recently created composite vector (NetMAP/AutoCAD) data.

Recent work created using the NetMAP system and previously created using the AutoCAD system (as opposed to raster/scanned data) are recorded in the composite vector style shown on the UK Power Networks London area symbol sheet - see the first example on page 18 of this document. Recent data will be indicated by the existence of multi-coloured cables on the NetMAP system, but this may not be reflected on printed matter produced with a black and white printer. AutoCAD data looks similar to the coloured NetMAP data, but does not hold any cable 'attributes' when selected using the NetMAP system. These cables will be represented individually (multi-line representation). New NetMAP cross sections may be accessed electronically on the NetMAP system and are presented in printed format accompanied by a seven digit NetMAP identification number.

Overview map:-



See following pages for further details.

Region 1 ex-Western area

This region includes Westminster, Kensington, Chelsea, Hammersmith and Fulham. The region is covered by two map layer systems – **region 1(a)** mains and ways dual layer raster, and **region 1(b)** composite raster. The following explains this in greater detail.

Region 1(a) (hatched)

Mains and ways representation:

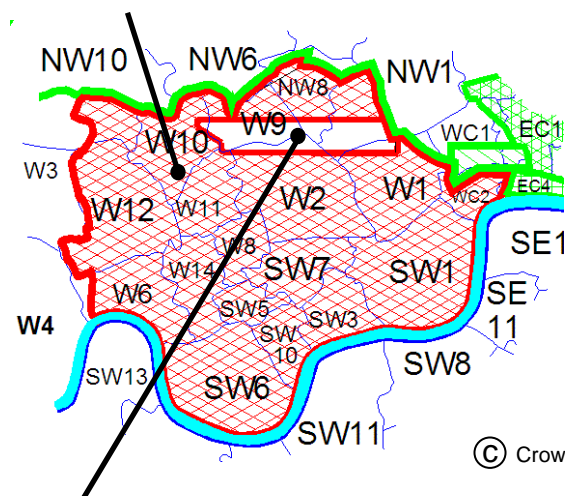
This system consists of two maps layers for the same area.

- The mains map shows all cable routes.
- The ways map shows pipe and duct routes with cross sections.

There are some enlargement sheets, cross sections and jointing details. EHV routes are shown on either the mains or the ways map.

It is important that all these maps are read in conjunction with each other.

Caution: - It is also important to note that the kerb line detail on these maps is a dash/dot line, which on the majority of UK Power Networks Central (London) records would refer to an HV cable route. HV cables are shown as a solid line when laid direct and a dashed line when in a duct.



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Region 1(b) (un-hatched)

Composite single layer (style 1) maps:

Whenever possible, all the information is on one map layer. There are some enlargement sheets in the Aberdeen Place area. Please note that the kerb line is shown as a dotted line and HV cables are shown as dash/dot lines.

Region 2 ex-Northern area

This region includes Islington, Hackney, the City of London and parts of Brent, Camden and Ealing. The region is covered by four map layer systems - **Region 2(a)** - mains and ways dual layer raster (Holborn area), **Region 2(b)** - single line representation (City of London), **Region 2(c)** - multi-single line representation (Finsbury and Shoreditch) and **Region 2(d)** - composite multi-line maps (all other areas). This following explains this in greater detail.

Region 2(a) (hatched)

Covers part of WC1 and WC2 (Holborn).

Mains and ways representation:

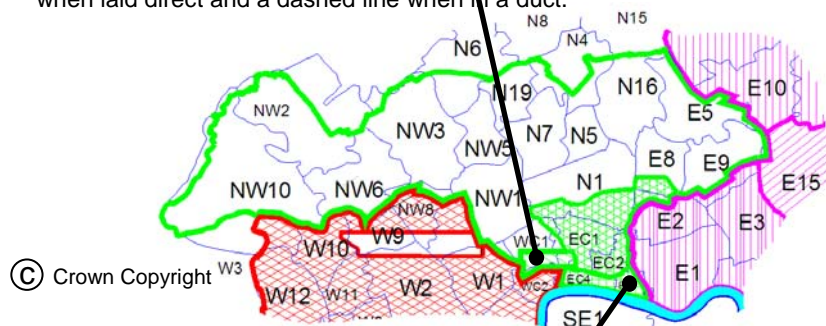
This system consists of two maps layers for the same area.

- i) The mains map shows all cable routes.
- ii) The ways map shows pipe and duct routes with cross sections.

Where needed, extra sheets have been added for enlargements, cross sections and jointing details. EHV routes are shown on the mains map layer.

It is important that all these maps are read in conjunction with each other.

Caution: - It is also important to note that the kerb line detail on these maps is a dash/dot line, which on the majority of UK Power Networks Central (London) records would refer to an HV cable route. HV cables are shown as a solid line when laid direct and a dashed line when in a duct.



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Region 2(b) (hatched)

Covers parts of postal areas EC1, EC2 and all of postal areas EC3 and EC4.

Single line representation maps:

Whenever possible, all the information is on one map layer. One line can represent any number of cables or ducts. It is therefore very important to use cross sections. In some cross sections details may be written and not drawn. In complex and redrawn areas, some detail may be drawn using multi-line representation. There are some enlargement sheets.

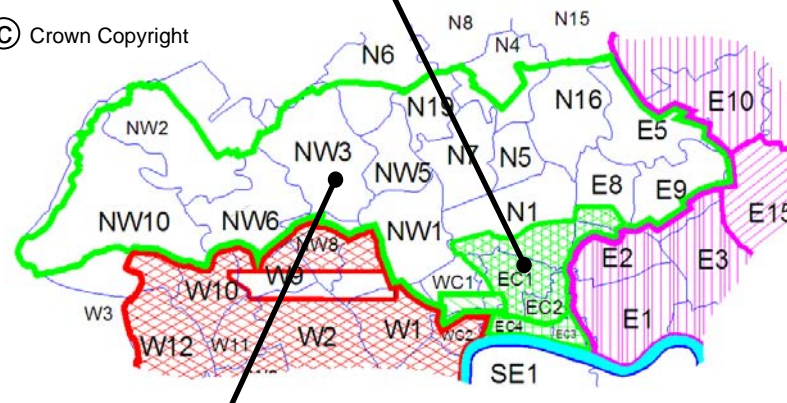
Region 2(c) (hatched)

Covers parts of postal areas EC1, EC2, N1, E1, E2 and E8.

Multi-single line representation (style 1) maps:

Whenever possible, all the information is on one map layer. When cables lay immediately above/below each other, it is shown as a single line. For example if six cables lay three on three, only three lines would indicate the six cables. If the cables were laid flat, six separate lines would be shown. It is therefore important not to assume that the lines drawn indicate the number of cables, at any point. **Cross sections must be used.**

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Region 2(d) (un-hatched)

Covers all other postal areas in this region

Composite single layer (style 1) maps:

Whenever possible, all the information is on one map layer. There are some enlargement sheets.

Region 3 ex-North Eastern area

This region includes Tower Hamlets, Newham, Redbridge, Waltham Forest, Loughton (Epping) and Barking and Dagenham. This region is covered by three mapping systems.

Region 3(a) (hatched)

Separate HV and LV representation maps:

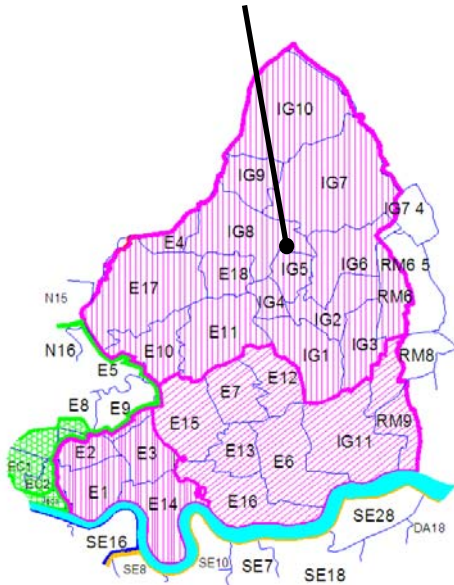
This system consists of two maps layers for the same area.

- The HV map layer showing HV cables and duct routes.
- The LV map layer showing LV cables and duct routes.

Cross sections for both HV and LV cable routes are shown on a separate sheet.

EHV cable routes are shown on the HV map layer.

It is important that all these maps are read in conjunction with each other.

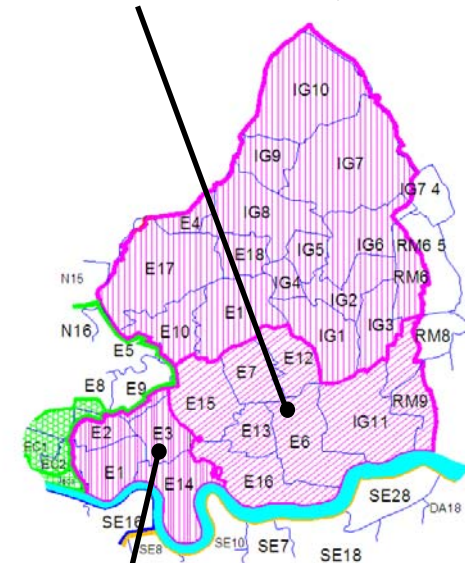


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Region 3(b) (hatched)

A combination of composite single layer (style 1) and multi-single line (style 2):

Whenever possible, all the information is on one map layer. There are some enlargement sheets. There is a combination of map styles used in this area. Some areas may be conventional multi-line line representation with many areas of multi-single line representation. In the multi-line areas each (live) cable is shown individually in plan. In the multi-single line map areas, there is a single line for each voltage type, with a single HV line and a single LV line representing more than one cable run of each voltage (when applicable). Therefore a cable run containing three HV cable and four LV cables will be represented by one HV line and one LV line.



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Region 3(c) (hatched)

A combination of composite single layer (style 2) and multi-single line (style 2):

Whenever possible, all the information is on one map layer. There are some enlargement sheets. In this area (postal code areas E1, E2, E3, E14 and part of E9), the cross sections are listed under each road name. It is therefore extremely important that you have the correct cross sections for the road you are working in.

There is a combination of map styles used in this area. Most areas are composite single layer (style 2) with some areas of multi-single line representation, as described in region 3(b).

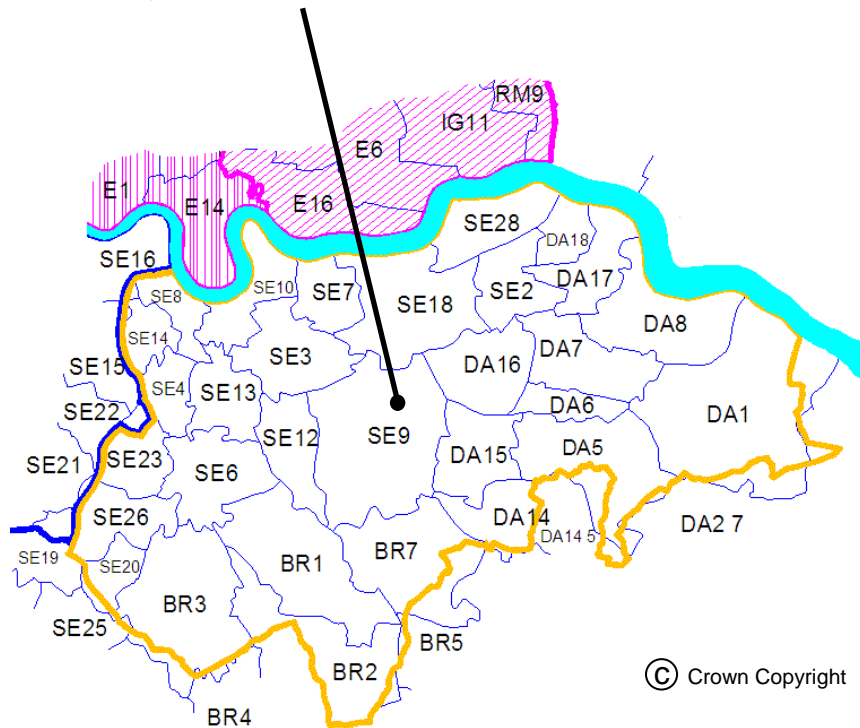
Region 4 ex-South Eastern area

This region includes Lewisham, Greenwich, Bromley, Bexley and Dartford.
Nearly all maps are drawn in one style – single layer composite raster/vector.

Region 4 (un-hatched)

Composite single layer (style 1) with a small number of mains and ways representation maps :

Mainly composite maps - whenever possible, all the information is on one map layer. There are some enlargement and cross section sheets. Some maps do not show single phase services unless they are long and deviating. There are however some maps drawn using the mains and ways style. These are rare, but please be aware that they exist.



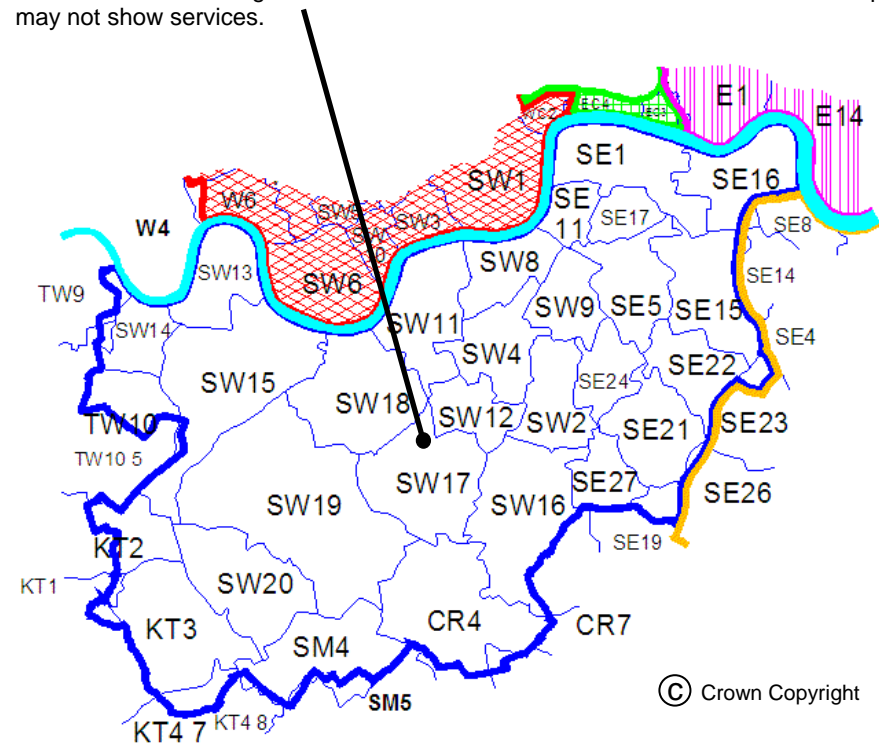
Region 5 ex-Southern area

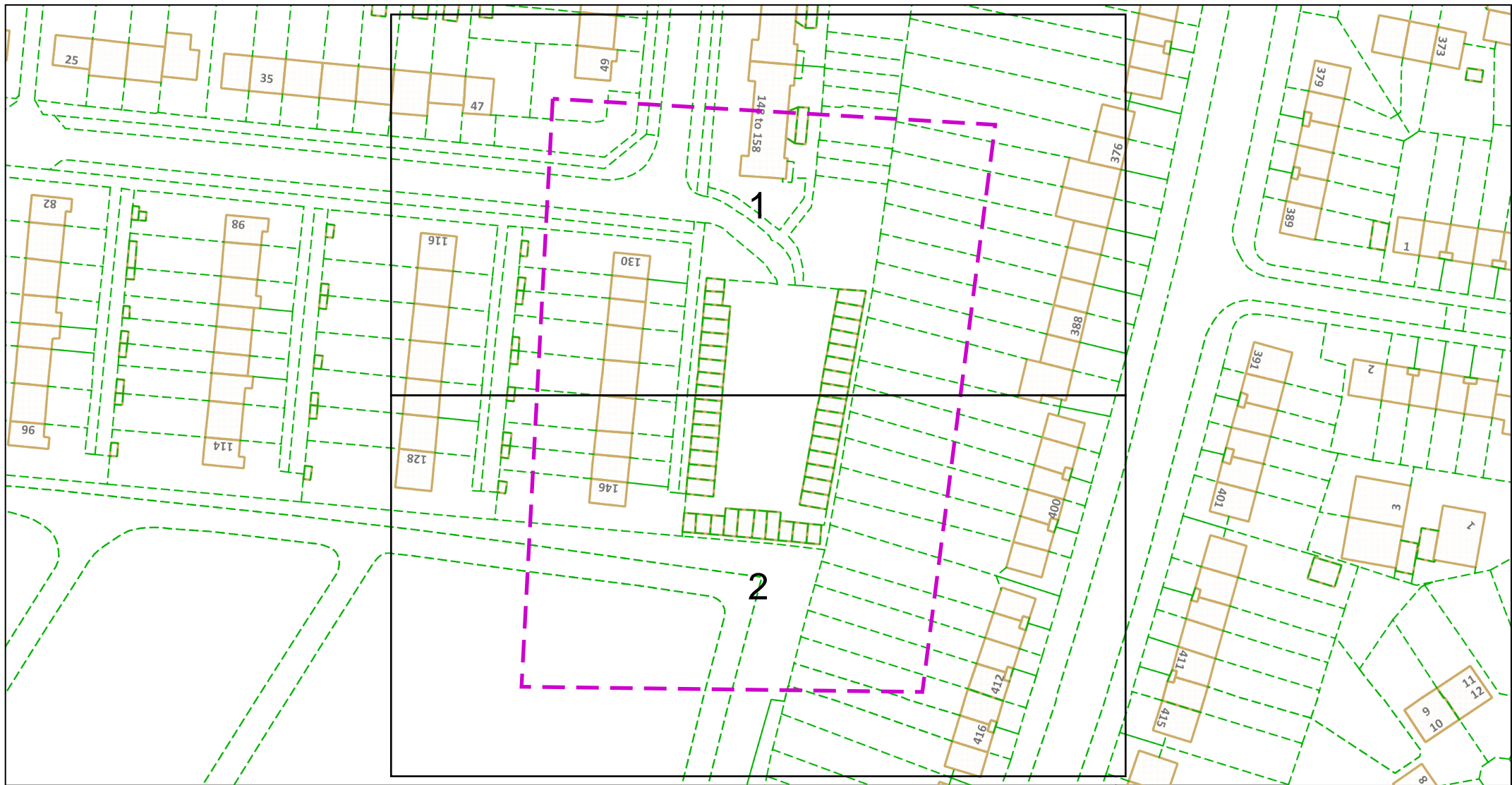
This region includes Southwark, Lambeth, Wandsworth, Merton, Kingston upon Thames and Richmond upon Thames. All maps are drawn to one style - single layer composite raster/vector.

Region 5 (un-hatched)

Composite single layer (style 1) maps:

Composite maps - whenever possible, all the information is on one map layer. There are some enlargement and cross section sheets. A small number of maps may not show services.





Dig Sites Area:  Line: 

The quality and accuracy of any print will depend on your printer, your computer and its print settings. Measurements scaled from this plan may not match measurements between the same points on the ground.



This plan must be used with the attached 'Symbols' document.

Date Requested: 04/09/2020

Job Reference: 19837584

Site Location: 546385 183973

Requested by:

Mr Max Coetzee

Your Scheme/Reference:

421488

Scale: 1:1025 (When plotted at A4)

1. The position of the apparatus shown on this drawing is believed to be correct but the original landmarks may have been altered since the apparatus was installed.
2. The exact position of the apparatus should be verified - use approved cable avoidance tools prior to excavation using suitable hand tools.
3. It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks until the exact location of all the cables have been determined.
4. It must be assumed that there is a service cable into each property, lamp column and street sign, etc.
5. All cables must be treated as being live unless proved otherwise by UK Power Networks.
6. The information proved must be given to all people working near UK Power Networks plant and equipment. Do not use plans more than 3 months after the issue date for excavation purposes.
7. Please be aware that electric cables/lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.
8. Please be aware the Low Voltage Overhead power lines are not currently displayed for the Eastern Region via this service, if you require records on the location of these please contact our Plan Provision team directly via plans@ukpowernetworks.co.uk.

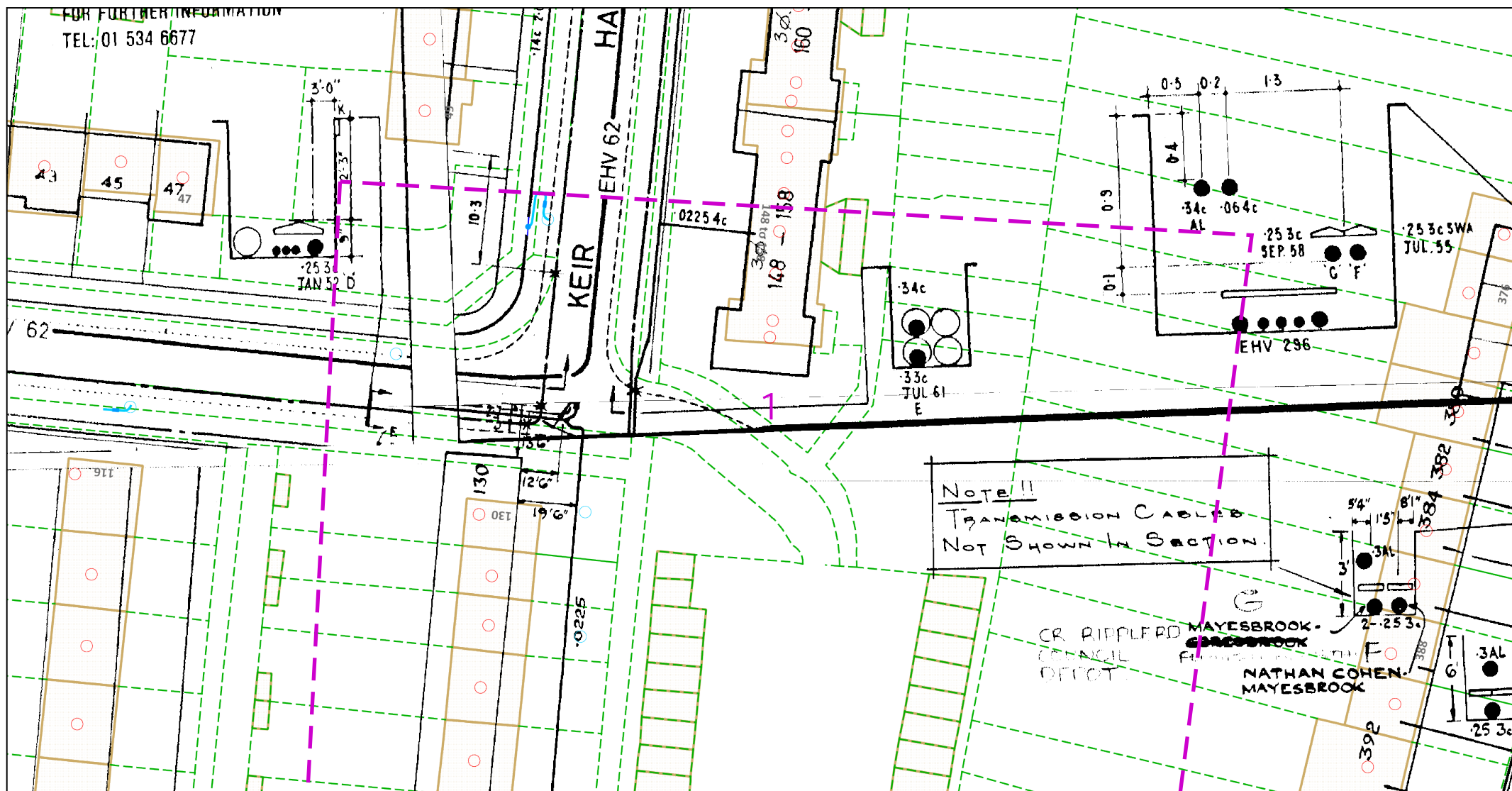
1. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk.
2. UK Power Networks does not exclude or limit its liability if it causes the death of any persons or causes personal injury to a person.
3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise for any loss, damage, cost, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.
4. This plan has been provided to you on the basis of the terms of use set out in the covering letter that accompanies this plan. If you do not accept and/or do not understand the terms of use set out in the covering letter you must not use the plan and must return it to the sender of the letter.
5. You are responsible for the security of the information provided to you. It must not be given, sold or made available upon payment of a fee to a third party.
6. Please Note: The Overview map does not display UK Power Networks electricity network and should not be used for the location of UK Power Networks assets. For detail of the electricity network please view the relevant page as highlighted in the Overview map.

IF IN DOUBT - ASK! PHONE
0800 056 5866
EMERGENCY - If you damage a
cable or line
Phone 0800 783 8838 (24hrs)
URGENTLY



ALWAYS LOOK UP
BEFORE
YOU START WORK
Refer to HSE Guidance
note GS6

Maps produced at 1:2500 scale are Geo-Schematics which show LV mains cables and overhead lines (in some cases all voltages). Prior to carrying out excavations you must refer to the 1:500 records to determine the location of all known underground plant and equipment.



The quality and accuracy of any print will depend on your printer, your computer and its print settings. Measurements scaled from this plan may not match measurements between the same points on the ground.

This plan must be used with the attached 'Symbols' document.

Date Requested: 04/09/2020
Job Reference: 19837584
Site Location: 546385 183973
Requested by: Mr Max Coetzee

Your Scheme/Reference:
421488
Scale: 1:500 (When plotted at A4)

1. The position of the apparatus shown on this drawing is believed to be correct but the original landmarks may have been altered since the apparatus was installed.
2. The exact position of the apparatus should be verified - use approved cable avoidance tools prior to excavation using suitable hand tools.
3. It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks until the exact location of all the cables have been determined.
4. It must be assumed that there is a service cable into each property, lamp column and street sign, etc.
5. All cables must be treated as being live unless proved otherwise by UK Power Networks.
6. The information proved must be given to all people working near UK Power Networks plant and equipment. Do not use plans more than 3 months after the issue date for excavation purposes.
7. Please be aware that electric cables/lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.
8. Please be aware the Low Voltage Overhead power lines are not currently displayed for the Eastern Region via this service, if you require records on the location of these please contact our Plan Provision team directly via plans@ukpowernetworks.co.uk.

1. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk.
2. UK Power Networks does not exclude or limit its liability if it causes the death of any persons or causes personal injury to a person.
3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise for any loss, damage, cost, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.
4. This plan has been provided to you on the basis of the terms of use set out in the covering letter that accompanies this plan. If you do not accept and/or do not understand the terms of use set out in the covering letter you must not use the plan and must return it to the sender of the letter.
5. You are responsible for the security of the information provided to you. It must not be given, sold or made available upon payment of a fee to a third party.
6. Please Note: The Overview map does not display UK Power Networks electricity network and should not be used for the location of UK Power Networks assets. For detail of the electricity network please view the relevant page as highlighted in the Overview map.



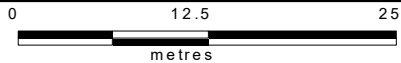
IF IN DOUBT - ASK! PHONE
0800 056 5866
EMERGENCY - If you damage a
cable or line
Phone 0800 783 8838 (24hrs)
URGENTLY



ALWAYS LOOK UP
BEFORE
YOU START WORK
Refer to HSE Guidance
note GS6

Maps produced at 1:2500 scale are Geo-Schematics which show LV mains cables and overhead lines (in some cases all voltages). Prior to carrying out excavations you must refer to the 1:500 records to determine the location of all known underground plant and equipment.

CODE	H.V. Cable Identification
A	Renwick Rd - Goresbrook Rd Adj 227 West.
B	Castle Rd - Carrington Tee Rugby Rd.
C	Goresbrook Rd Adj 249 N. - Goresbrook Rd Adj 247 W.
D	CARRINGTON - RUGBY RD (overhead)
E	
F	
G	STAMFORD - GORESBROOK 427 T/C
H	
I	
J	



Dig Sites Area: Line:

The quality and accuracy of any print will depend on your printer, your computer and its print settings. Measurements scaled from this plan may not match measurements between the same points on the ground.

This plan must be used with the attached 'Symbols' document.

Date Requested: 04/09/2020
Job Reference: 19837584
Site Location: 546385 183973
Requested by: Mr Max Coetzee

Your Scheme/Reference:
421488
Scale: 1:500 (When plotted at A4)

1. The position of the apparatus shown on this drawing is believed to be correct but the original landmarks may have been altered since the apparatus was installed.
2. The exact position of the apparatus should be verified - use approved cable avoidance tools prior to excavation using suitable hand tools.
3. It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks until the exact location of all the cables have been determined.
4. It must be assumed that there is a service cable into each property, lamp column and street sign, etc.
5. All cables must be treated as being live unless proved otherwise by UK Power Networks.
6. The information provided must be given to all people working near UK Power Networks plant and equipment. Do not use plans more than 3 months after the issue date for excavation purposes.
7. Please be aware that electric cables/lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.
8. Please be aware the Low Voltage Overhead power lines are not currently displayed for the Eastern Region via this service, if you require records on the location of these please contact our Plan Provision team directly via plans@ukpowernetworks.co.uk.

1. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk.
2. UK Power Networks does not exclude or limit its liability if it causes the death of any persons or causes personal injury to a person.
3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise for any loss, damage, cost, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.
4. This plan has been provided to you on the basis of the terms of use set out in the covering letter that accompanies this plan. If you do not accept and/or do not understand the terms of use set out in the covering letter you must not use the plan and must return it to the sender of the letter.
5. You are responsible for the security of the information provided to you. It must not be given, sold or made available upon payment of a fee to a third party.
6. Please Note: The Overview map does not display UK Power Networks electricity network and should not be used for the location of UK Power Networks assets. For detail of the electricity network please view the relevant page as highlighted in the Overview map.



IF IN DOUBT - ASK! PHONE
0800 056 5866
EMERGENCY - If you damage a
cable or line
Phone 0800 783 8838 (24hrs)
URGENTLY



ALWAYS LOOK UP
BEFORE
YOU START WORK
Refer to HSE Guidance
note GS6

Maps produced at 1:2500 scale are Geo-Schematics which show LV mains cables and overhead lines (in some cases all voltages). Prior to carrying out excavations you must refer to the 1:500 records to determine the location of all known underground plant and equipment.

9/23

9/19

SECTIONS ARE TAKEN ALONG THE LINE OF TRENCH UNLESS OTHERWISE SHOWN

14/4

It should be recognised that cable depths shown on this map may be unreliable as the ground level may have changed since the cables were installed and the relative position of cables may also have changed due to the alteration of original landmarks.

CAUTION: ALL SERVICES MAY NOT BE SHOWN.
FOR FURTHER INFORMATION TELEPHONE 01-534 6677

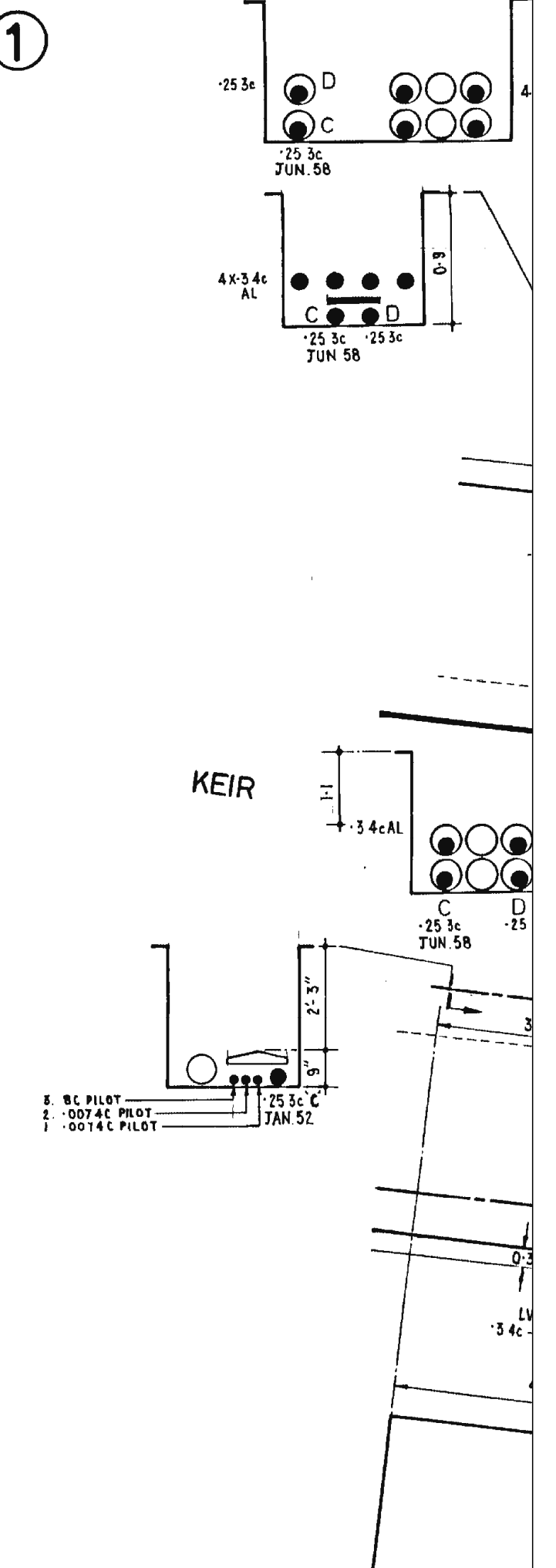
PRIMARY CIRCUITS ARE SHOWN
— HV — ON THIS
RECORD NO. FIRST SURVEY OR
WHICH MUST NOT BE USED
WITHIN THE VICINITY OF SUCH
CABLES

SCALE

1/500

9/24

①



SCALE 1:100

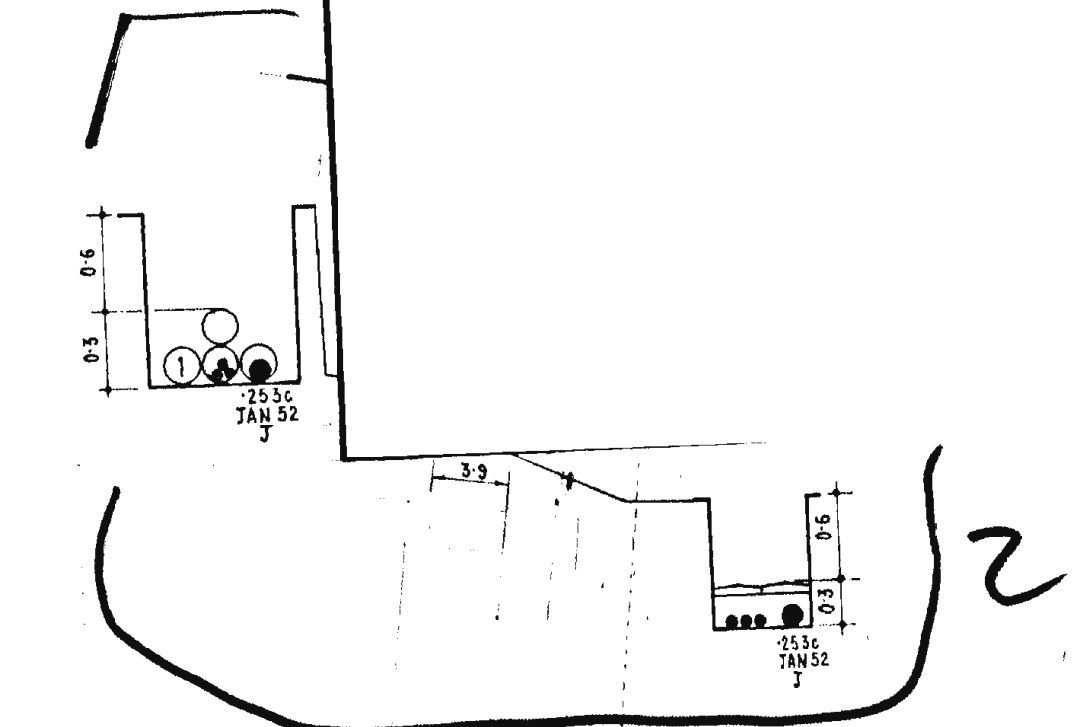
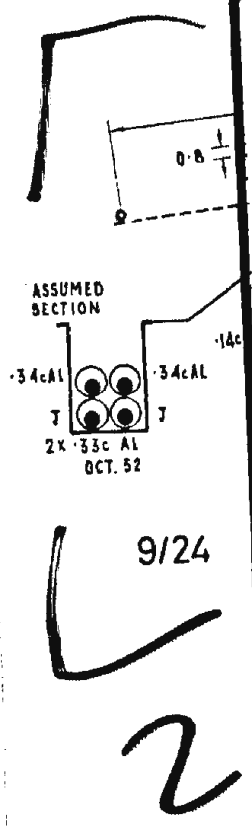
9/24

It should be recognised that cable depths shown on this map may be unreliable as the ground level may have changed since the cables were installed and the relative position of cables may also have changed due to the alteration of original landmarks.

CAUTION: ALL SERVICES MAY NOT BE SHOWN.
FOR FURTHER INFORMATION TELEPHONE 01-5346677

SCALE: 1:7500
R.E.M.

9/20



HV CABLE IDENTIFICATION (see 9/25A for other HV cable identification)			
code		TO	
K	Casling Road	TO	CANNINGTON ROAD CRUTCH RUGBY ROAD.
R	Ripple Road Council Depot	TO	CANNONSLEIGH ROAD.
M	SHEPPEY ROAD	TO	FLAMSTEAD ROAD.

14/5

It should be recognized that cable depths shown on this map may be unreliable as the ground level may have changed since the cables were installed and the relative position of added may also have changed due to the alteration of original landmarks.

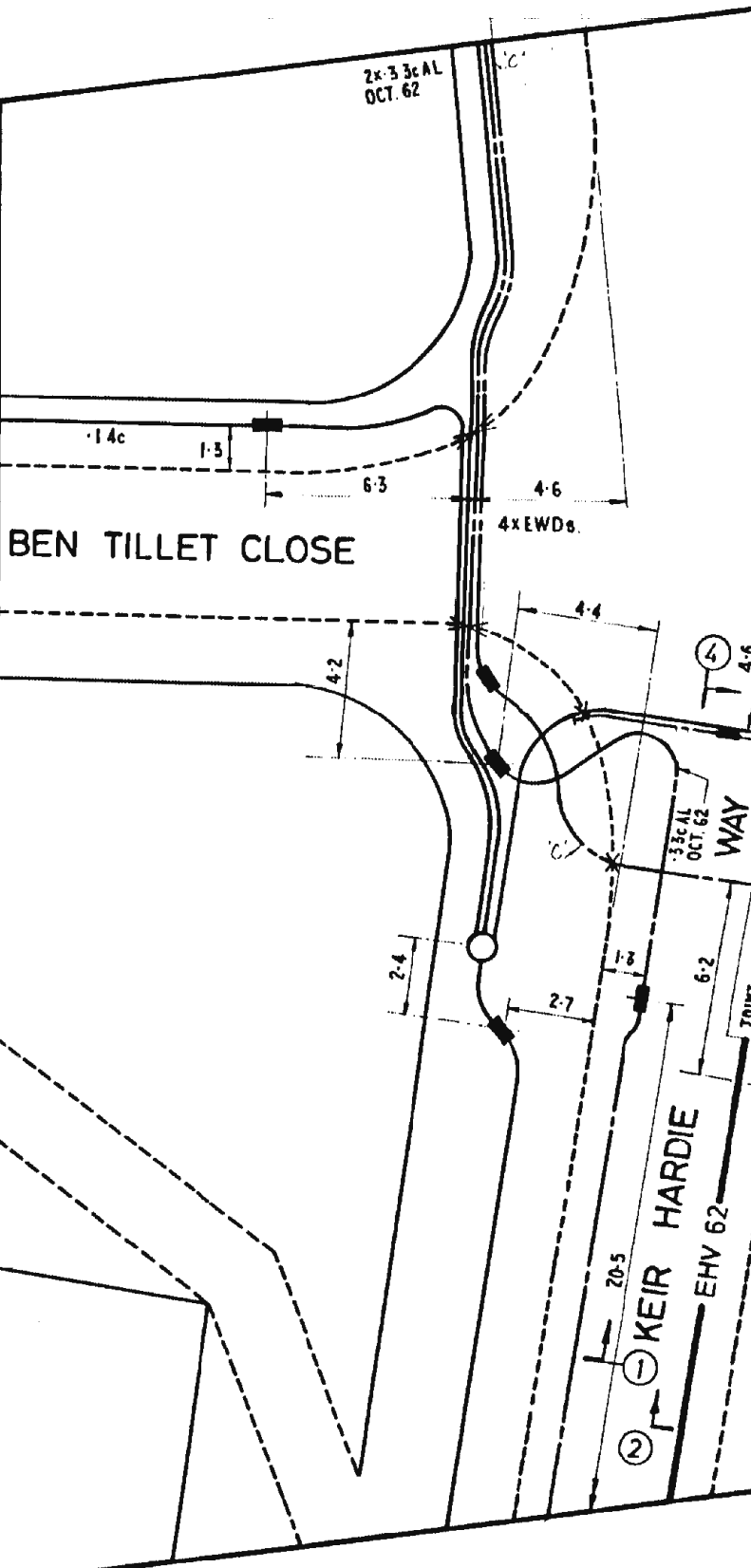
SCALE 1:500
PRIMARY CIRCUITS ARE SHOWN
— CHV — ON THIS
RECORD NO THIRST BURBS OR
MOLES MUST NOT BE USED
WITHIN THE VICINITY OF SUCH
CABLES

RE-DRAWN Nov. 1985
St. Lawrence

9/25

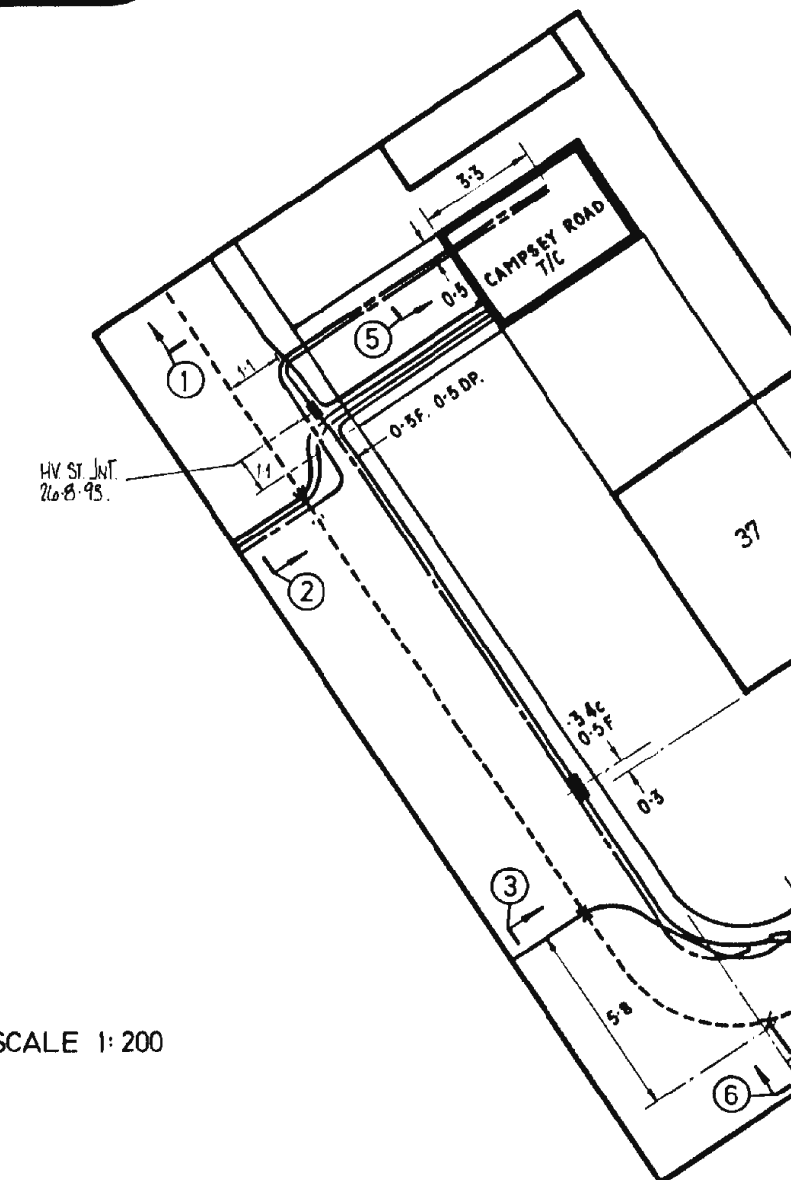
CAUTION: ALL SERVICES
MAY NOT BE SHOWN
FOR FURTHER INFORMATION TELEPHONE 01 534 6677

A



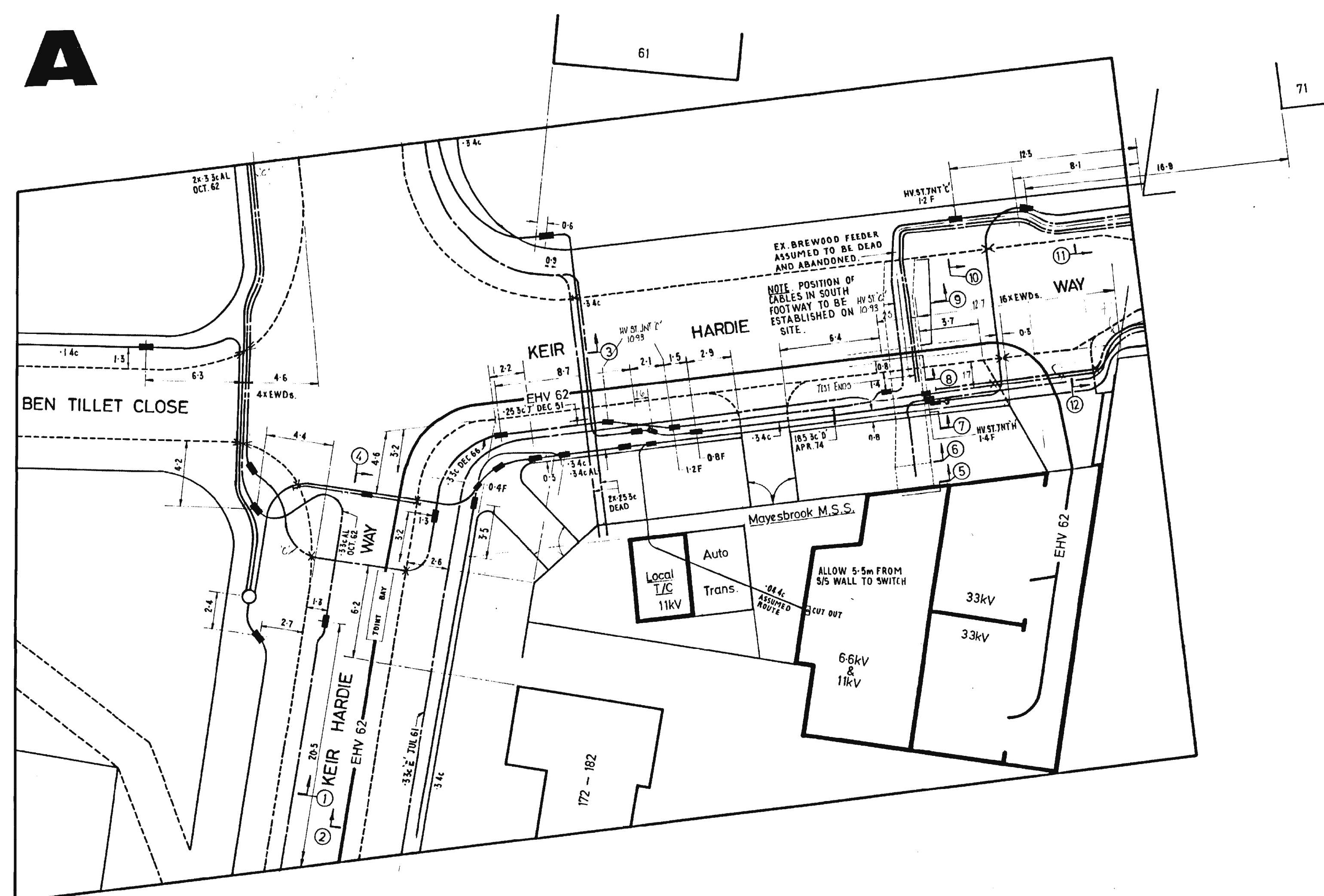
REDRAWN NOV. 1985

B



REDRAWN NOV. 1985

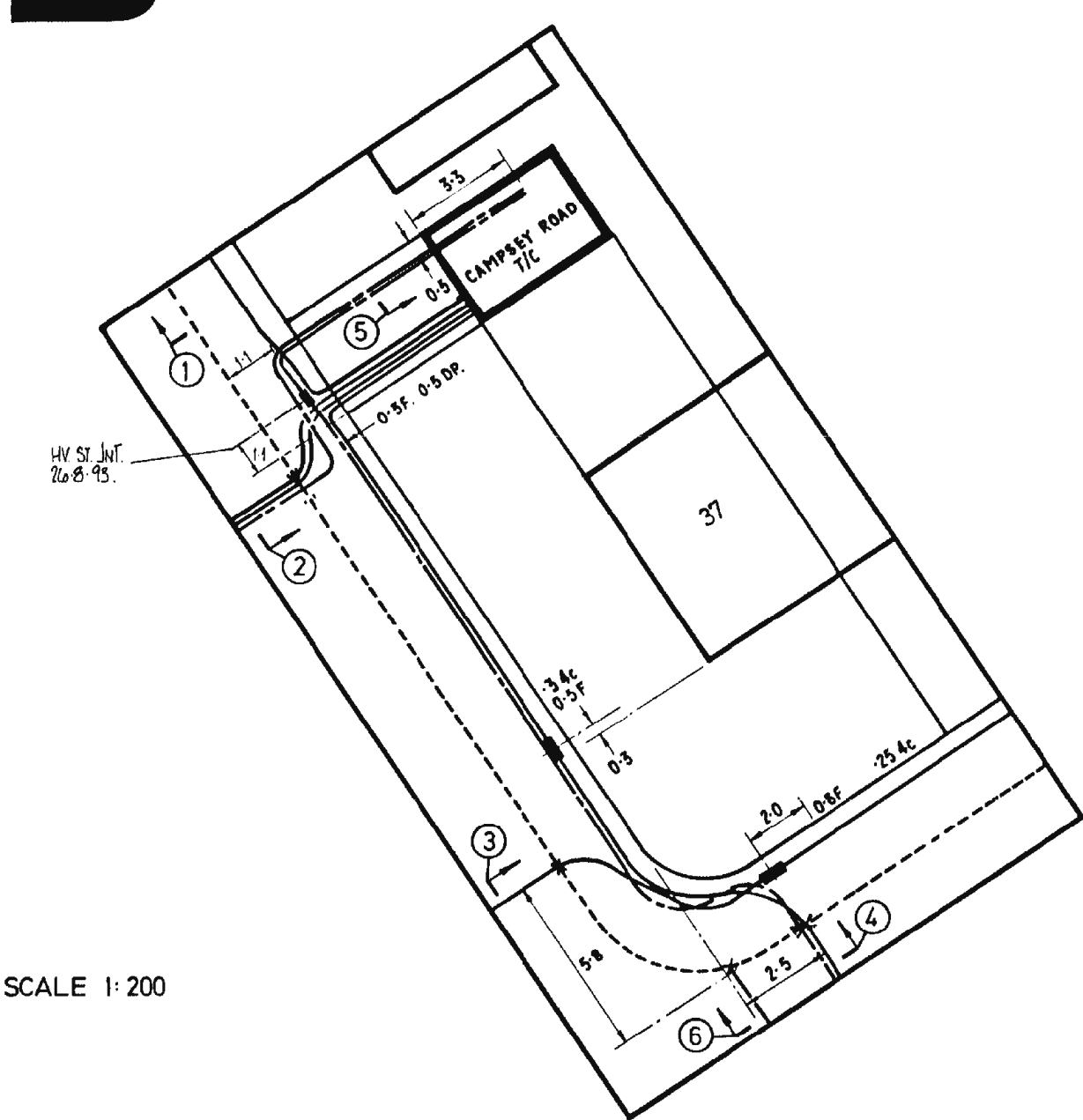
A



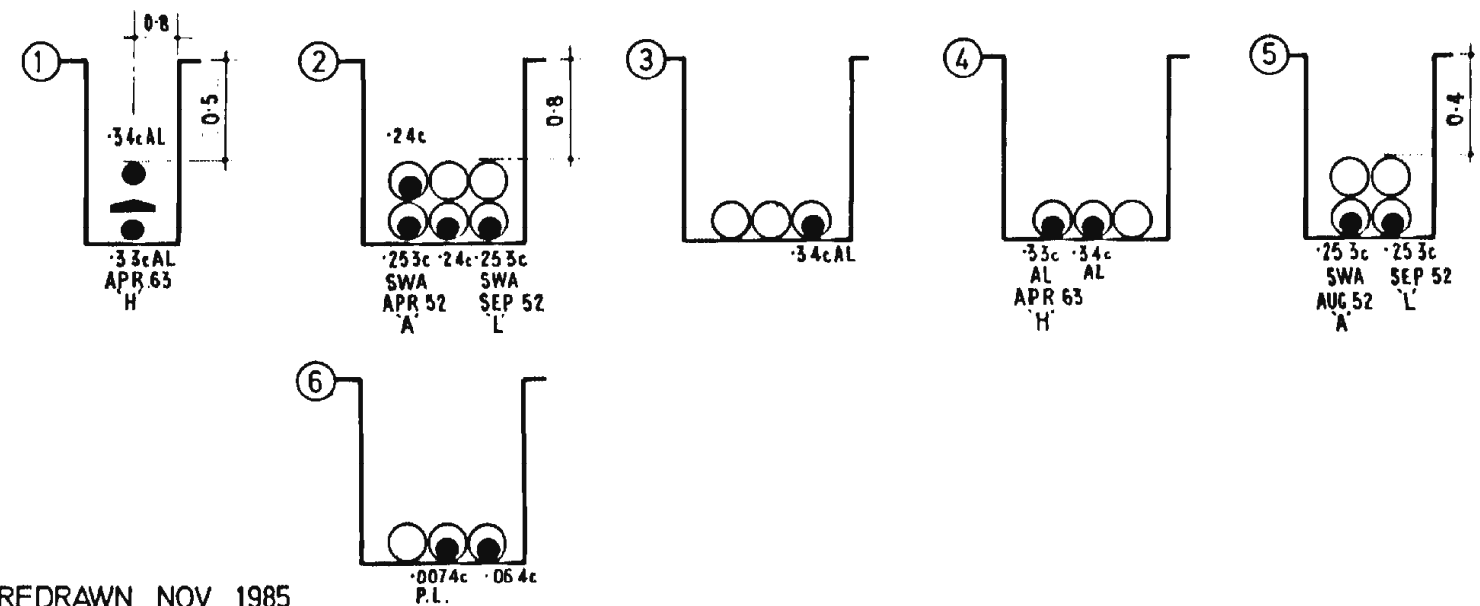
10/25
SCALE 1:200

REDRAWN NOV 1985

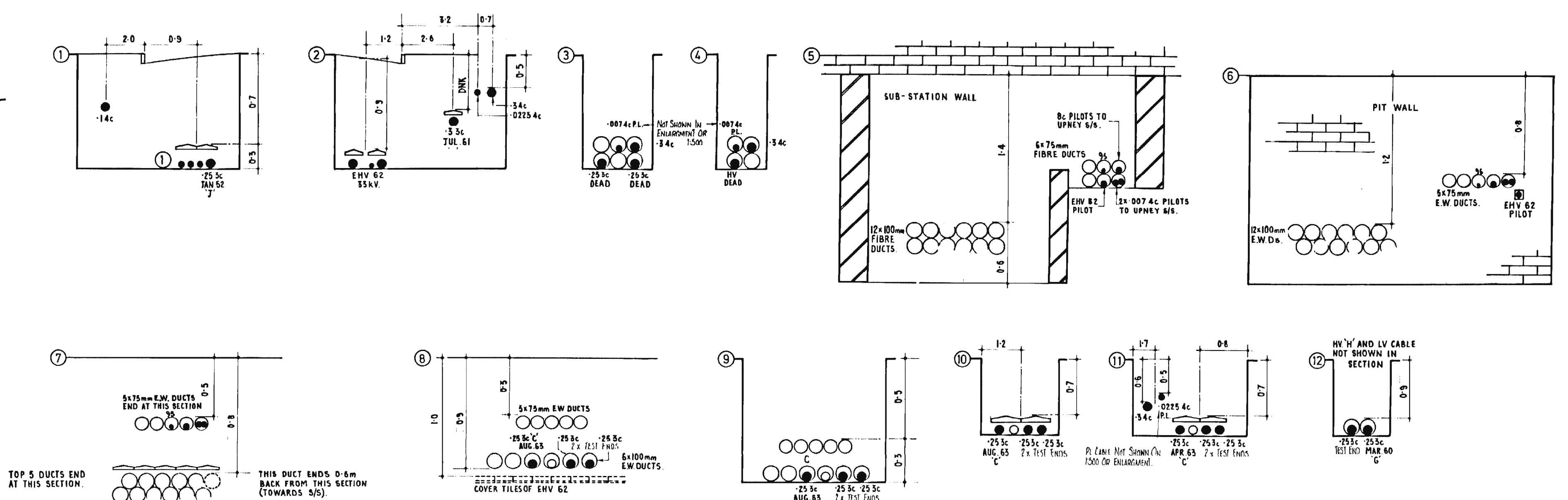
B



SCALE 1:200



REDRAWN NOV. 1985



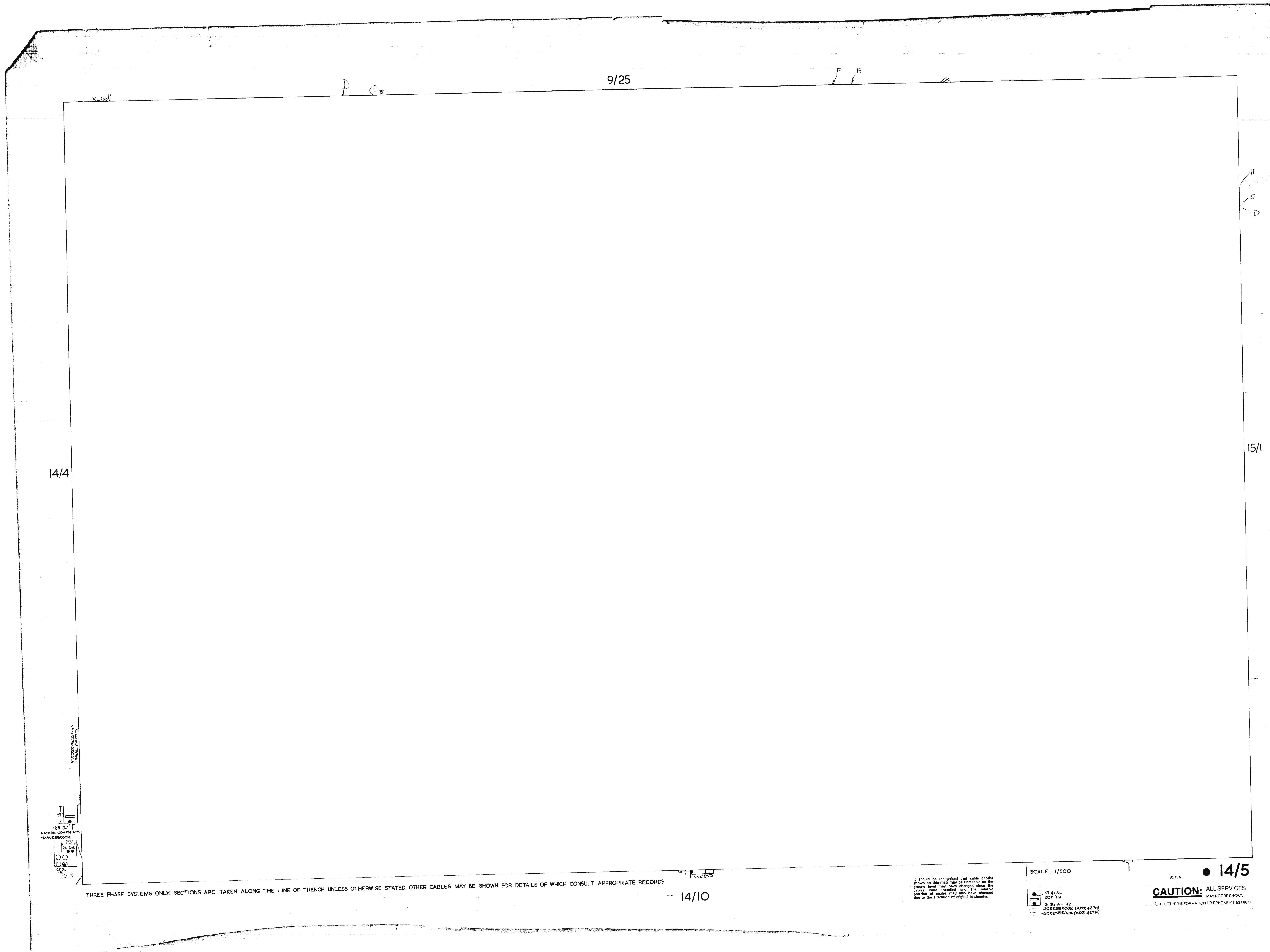
code	H.V. CABLE IDENTIFICATION. (see 1:500 9/25 for other HV cable identification).
A	
B	
C	KEIR HARDIE WAY TO RUGBY RD. PORTER'S LODGE.
D	
E	TEND 1/2 MAYESBROOK M.S.S. TO ALFRED'S WAY, NATHAN COHEN.
F	LANGLEY CRESCENT TO RUPPE ROAD COUNCIL DEPOT.
G	MAYESBROOK M.S.S. TO LANGLEY CRESCENT CAUTCH THETFORD.
H	
I	
J	

THIS RECORD IS INCOMPLETE FOR REASONS GIVEN BELOW:-
ALL SERVICE RUNS NOT SHOWN
ALL PUBLIC LIGHTING RUNS NOT SHOWN
FOR FURTHER INFORMATION
TEL: 01 534 6677

It should be recognized that cable depths shown on this map may be unreliable as the ground level may have changed since the cables were installed and the relative position of cables may also have changed due to the alteration of original landmarks.
PRIMARY CIRCUITS ARE SHOWN
ON THIS RECORD BY THIN LINES OR
MOLES MUST NOT BE USED
WITHIN THE VICINITY OF SUCH CABLES.

9/25A
CAUTION: ALL SERVICES MAY NOT BE SHOWN
FOR FURTHER INFORMATION TELEPHONE: 01-534 6677

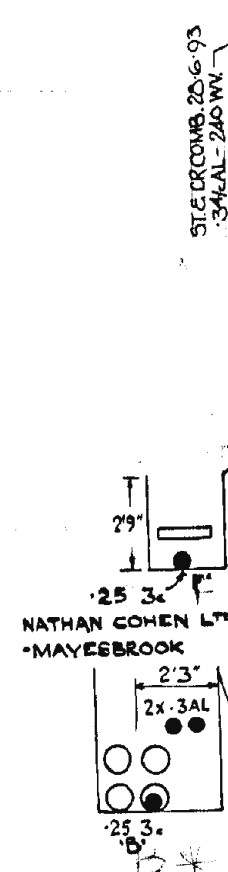
RE-DRAWN Nov. 1985
9/25
CAUTION: ALL SERVICES MAY NOT BE SHOWN
FOR FURTHER INFORMATION TELEPHONE: 01-534 6677



14/4

9/25

15/1



THREE PHASE SYSTEMS ONLY. SECTIONS ARE TAKEN ALONG THE LINE OF TRENCH UNLESS OTHERWISE STATED. OTHER CABLES MAY BE SHOWN FOR DETAILS OF WHICH CONSULT APPROPRIATE RECORDS

3x6 FEM

14/10

It should be recognized that cable depths shown on this map may be unreliable as the ground level may have changed since the cables were installed and the relative position of cables may also have changed due to the alteration of original landmarks.

SCALE: 1/500

3.4 AL
OCT 09
3.3 AL HV
GORESBROOK (A07.429M)
GORESBROOK (A07.427M)

R.E.H.

● 14/5

CAUTION: ALL SERVICES MAY NOT BE SHOWN.
FOR FURTHER INFORMATION TELEPHONE 01-534 6677

Max Coetzee
Apogee Utility Consultants
Blount House
Hall Court
Hall Park Way
Telford
Telford
TF3 4NQ

Plant Protection
Cadent
Block 1; Floor 1
Brick Kiln Street
Hinckley
LE10 0NA
E-mail: plantprotection@cadentgas.com
Telephone: +44 (0)800 688588

National Gas Emergency Number:
0800 111 999*

National Grid Electricity Emergency Number:
0800 40 40 90*

* Available 24 hours, 7 days/week.
Calls may be recorded and monitored.

www.cadentgas.com

Date: 04/09/2020
Our Ref: NL_GE4A_3SWX_718147
Your Ref: 421488
RE: Proposed Works, Keir Hardie Way

Thank you for your enquiry which was received on 04/09/2020.
Please note this response and any attached map(s) are valid for 28 days.

An assessment has been carried out with respect to Cadent Gas Limited, National Grid Electricity Transmission plc's and National Grid Gas Transmission plc's apparatus. Please note it does not cover the items listed in the section "Your Responsibilities and Obligations", including gas service pipes and related apparatus.
For details of Network areas please see the Cadent website (<http://cadentgas.com/Digging-safely/Dial-before-you-dig>) or the enclosed documentation.

As your works are at a "proposed" stage, any maps and guidance provided are for information purposes only. This is not approval to commence work. You must submit a "Scheduled Works" enquiry at the earliest opportunity and failure to do this may lead to disruption to your plans and works. Plant Protection will endeavour to provide an initial assessment within 14 days of receipt of a Scheduled Works enquiry and dependent on the outcome of this, further consultation may be required.

In any event, for safety and legal reasons, works must not be carried out until a Scheduled Works enquiry has been completed and final response received.

Your Responsibilities and Obligations

The "Assessment" Section below outlines the detailed requirements that must be followed when planning or undertaking your scheduled activities at this location.

It is your responsibility to ensure that the information you have submitted is accurate and that all relevant documents including links are provided to all persons (either direct labour or contractors) working for you near Cadent and/or National Grid's apparatus, e.g. as contained within the Construction (Design and Management) Regulations.

This assessment solely relates to Cadent Gas Limited, National Grid Electricity Transmission plc (NGET) and National Grid Gas Transmission plc (NGGT) and apparatus. This assessment does **NOT** include:

- | Cadent and/or National Grid's legal interest (easements or wayleaves) in the land which restricts activity in proximity to Cadent and/or National Grid's assets in private land. You must obtain details of any such restrictions from the landowner in the first instance and if in doubt contact Plant Protection.
- | Gas service pipes and related apparatus
- | Recently installed apparatus
- | Apparatus owned by other organisations, e.g. other gas distribution operators, local electricity companies, other utilities, etc.

It is **YOUR** responsibility to take into account whether the items listed above may be present and if they could be affected by your proposed activities. Further "Essential Guidance" in respect of these items can be found on either the [National Grid](#) or [Cadent](#) website.

This communication does not constitute any formal agreement or consent for any proposed development work; either generally or with regard to Cadent and/or National Grid's easements or wayleaves nor any planning or building regulations applications.

Cadent Gas Limited, NGGT and NGET or their agents, servants or contractors do not accept any liability for any losses arising under or in connection with this information. This limit on liability applies to all and any claims in contract, tort (including negligence), misrepresentation (excluding fraudulent misrepresentation), breach of statutory duty or otherwise. This limit on liability does not exclude or restrict liability where prohibited by the law nor does it supersede the express terms of any related agreements.

If you require further assistance please contact the Plant Protection team via e-mail ([click here](#)) or via the contact details at the top of this response.

Yours faithfully

Plant Protection Team

ASSESSMENT

Affected Apparatus

The apparatus that has been identified as being in the vicinity of your proposed works is:

- I Low or Medium pressure (below 2 bar) gas pipes and associated equipment. (As a result it is highly likely that there are gas services and associated apparatus in the vicinity)

Requirements

BEFORE carrying out any work you must:

- I Carefully read these requirements including the attached guidance documents and maps showing the location of apparatus.
- I Contact the landowner and ensure any proposed works in private land do not infringe Cadent and/or National Grid's legal rights (i.e. easements or wayleaves). If the works are in the road or footpath the relevant local authority should be contacted.
- I Ensure that all persons, including direct labour and contractors, working for you on or near Cadent and/or National Grid's apparatus follow the requirements of the HSE Guidance Notes HSG47 - 'Avoiding Danger from Underground Services' and GS6 – 'Avoidance of danger from overhead electric power lines'. This guidance can be downloaded free of charge at <http://www.hse.gov.uk>
- I In line with the above guidance, verify and establish the actual position of mains, pipes, cables, services and other apparatus on site before any activities are undertaken.

GUIDANCE

Excavating Safely - Avoiding injury when working near gas pipes:

http://www.nationalgrid.com/NR/rdonlyres/2D2EEA97-B213-459C-9A26-18361C6E0B0D/25249/Digsafe_leaflet3e2finalamends061207.pdf

Standard Guidance

Essential Guidance document:

<http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=8589934982>

General Guidance document:

<http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=35103>

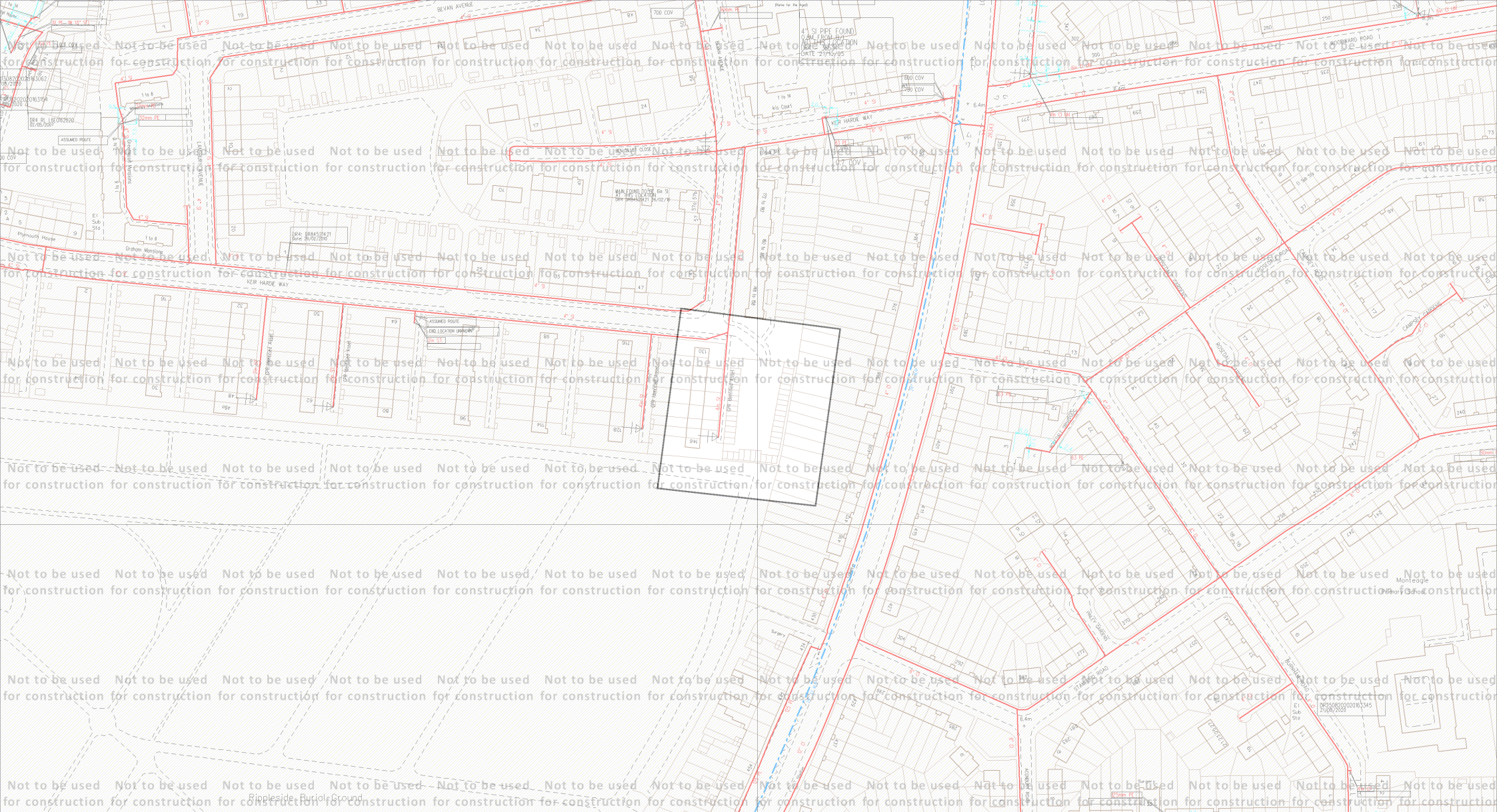
Excavating Safely in the vicinity of gas pipes guidance (Credit card):

<http://www.nationalgrid.com/NR/rdonlyres/A3D37677-6641-476C-9DDA-E89949052829/44257/ExcavatingSafelyCreditCard.pdf>

Excavating Safely in the vicinity of electricity cables guidance (Credit card):

<http://www.nationalgrid.com/NR/rdonlyres/35DDEC6D-D754-4BA5-AF3C-D607D05A25C2/44858/ExcavatingSafelyCreditCardelectricitycables.pdf>

Copies of all the Guidance Documents can also be downloaded from the [National Grid](#) and [Cadent](#) websites.



ID: NL_GE4A_3SWX_718147		View extent: 723m, 393m	Map not to be used for construction	Map 1 of 1 (GAS)
USER: max.coetzee	LP MAINS		<p>This plan shows those pipes owned by Cadent Gas Limited in its role as a Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections, etc., are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Cadent Gas Limited or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.</p>	<p>MAPS Plot Server Version 1.11.0</p> <p></p> <p>Your Gas Network</p> <p>Requested by: Apogee Utility Consultants</p> <p>This plan is reproduced from or based on the OS map by Cadent Gas Limited, with the sanction of the controller of HM Stationery Office. Crown Copyright Reserved. Ordnance Survey Licence number 100024886</p>
DATE: 04/09/2020	MP MAINS			
DATA DATE: 03/09/2020	IP MAINS			
REF: 421488	LHP MAINS			
MAP REF: TQ4684	NHP MAINS			
CENTRE: 546496, 184057	<p>0m 50m</p> <p>Approximate scale 1:2500 on A4 Colour Landscape</p>			
<p>Some examples of Plant Items:</p> <p>Valve Depth of Cover Syphon Diameter Change Material Change Out of Standard Service </p>				

ENQUIRY SUMMARY

Received Date

04/09/2020

Your Reference

421488

Location

Centre Point: 546496, 184057

X Extent: 89

Y Extent: 96

Postcode: IG11 9NU

Location Description: Keir Hardie Way

Map Options

Paper Size: A4

Orientation: LANDSCAPE

Requested Scale: 1250

Actual Scale: 1:2500 (GAS)

Real World Extents: 723m x 393m (GAS)

Recipients

max.coetzee@apogeeutilityconsultants.co.uk

Enquirer Details

Organisation Name: Apogee Utility Consultants

Contact Name: Max Coetzee

Email Address: max.coetzee@apogeeutilityconsultants.co.uk

Telephone: 01952798679 (07578843998)

Address: Blount House, Hall Court, Hall Park Way, Telford, Telford, TF3 4NQ

Description of Works

Utility Works

Enquiry Type

Proposed Works

Activity Type

Utility Works

Work Types

Work Type: Plans Only

421488

KEIR HARDIE WAY IG11 9NU

Site Enquiry

Plan

We enclose Plan(s) showing the approximate position of the Company apparatus in the vicinity of the area of your enquiry.

1. The company is not responsible for private water supply pipes that connect the property to the public system and does not hold details of these.
2. Individual property services have not been shown although it should be assumed they exist.

General Notes

A copy of the standard conditions for working near Company apparatus is enclosed for your information. If you require any further assistance to identify Company apparatus, then do not hesitate to make contact with the Area Office at the contact number shown in the standard conditions.

Important:- Please ensure this detail is made available to anyone carrying out any works which may affect out apparatus.

From the 1st October 2011 there may be lateral drains and/or public sewers which are not recorded on the public sewer map.

Signed.



On behalf of Northumbrian Water, Essex & Suffolk Water
Tel : 0370 241 7408

Email : plans@nwl.co.uk
or : assetplans@eswater.co.uk

Date: 14/SEP/2020
Ref: 1150075

STANDARD CONDITIONS FOR WORKING NEAR ESSEX & SUFFOLK WATER APPARATUS



NWG Property Solutions is part of Northumbrian Water Group (NWG)
Northumbrian Water and Essex & Suffolk Water are also part of NWG

THE FOLLOWING CONDITIONS WILL APPLY TO ALL WORKS IN THE VICINITY OF COMPANY APPARATUS

1. Contact should be made with the appropriate Company Area Office prior to the commencement of any work. Arrangements can then be made for the local representative to visit the site and assist in the location and protection of any apparatus affected. The Company must be given two working days notice before any works, including trial holes, are carried out within their easements. Contact **08457 820 999**.
2. The information shown on any plan provided by the Company is for general guidance only. The position of apparatus shown should not be relied upon as being precise. No service pipes are shown on plans.
3. The actual position of apparatus must be established by taking trial holes in all cases. No machine excavation will be permitted within 1 metre side of a main. The actual position of any apparatus must be found by hand excavation.
4. Where Company apparatus is exposed by excavation, support and protection measures are to be agreed on site. Where excavations are taken out below the invert of a main, adequate support is to be provided to prevent collapse of the excavation and subsequent undermining of the main. Special attention is to be given to the compaction of selected backfill material under the main and the company may require the use of lean mix concrete to replace inadequately compacted or unsuitable support backfill material. The compaction of selected backfill material under, around and up to a level of 300mm above the top of any main shall be carried out by hand. Upon completion of operations, any excavation is to be left open until after inspection by Company's representative.
5. No installation of plant may take place within the Company's easements without the prior consent of the Company and with all special conditions and arrangements being finalised before commencement of work.
6. Indiscriminate crossing of the main by heavy construction plant will not be permitted. Where applicable, Crossing Points must be agreed by the Company and any protective measures necessary taken before work begins.
7. Surface boxes and covers should not be removed without obtaining prior consent of the Company. All surface covers to washouts, valves, air valves, hydrants, stopcocks etc., are to be kept clear of obstruction and with free access at all times. If surface boxes or covers have been temporarily removed, positions should be clearly marked.
8. Where the levels of carriageway and footpath surfaces are raised or lowered, then the Company's surface covers must be adjusted as appropriate.
9. No pipes or cables are to be laid or structures placed directly over the line of Company apparatus.
10. Where drains, pipes or cables cross over or under any mains, a minimum clearance of 300mm must be maintained. Where it is necessary for any plant to lay parallel to the pipelines, a minimum distance of 1 metre shall be maintained between the outside of the pipeline and any plant being installed, except in the case of small diameter plant where N.J.U.G 7 dimensions apply. The Company must agree exceptions to these conditions in writing.
11. All crossing of the company's pipelines and easements shall be at right angles where possible. Where skew crossings are necessary, no more than 3 metres of the Company's pipeline shall be exposed at any time.
12. The Company will require three copies of proposal drawings showing the details of any proposed crossing of pipelines above 300mm diameter. The drawings must show the Company's pipelines in relation to the proposed works, to a scale of no less than 1:500 and no work shall commence until the Company has given approval.
13. Where it is necessary to carry out piling works closer than 6m to the Company's apparatus, or to carry out works using plant that is likely to damage the integrity of the Company's apparatus, the Company will require a method statement of the works shall be consulted before work commences.
14. Where the Company's pipeline is protected by a cathodic protection system, the Company will require a suitable joint testing programme to be agreed before the application of any cathodic protection scheme proposed by another authority or utility undertaking. If any bond-wires or test leads associated with the Company's cathodic protection system are damaged, disconnected or found to be in poor condition, the Company should be notified so that repairs can be made.
15. In the case of Trunk mains which cross development sites, no development is to take place within an agreed distance either side of the pipeline. A guide showing the easement widths for the various diameters and depths of pipe is available from Asset Plans.
16. No tree planting or landscaping work is done in close proximity to Company apparatus unless otherwise agreed in writing by the Company. A planting guide is available from Asset Plans.
17. In the event of any damage to any of the Company's plant the Company must be informed immediately. Where any damage occurs to Company apparatus, the appropriate remedial work will be carried out by the Company and charged to the promoter of the works.
18. Every effort should be made to secure the site against vandalism of the Company's plant.
19. A copy of these conditions is to be made available to all Contractors or Sub-Contractors working in the vicinity of Company apparatus.



Valves/Regulators	Fittings/Symbols
P1	+
P2	+
P3	+
P4	+

Storage/Operations
U
SR
OB
?
IR
HT
FM
ST
FT
OW
C
BPT
W
SP
F
RI
IM
CP
SC
BH
ABH

Network Types
Distribution
Treated
Raw
Fire
Supply

Specific Main Types
Abandoned Asbestos
Abandoned
Out of Commission
Private
Proposed

Area Types
Water Quality
District Metering
Easement

ESSEX & SUFFOLK
WATER *living water*

User : DAWSJ1
 Title : 0000
 Centre Point : 546498,184084

Date : 08/09/2020
 Map Sheet : TQ4684SW

The material contained on this plot has been reproduced from an Ordnance Survey map with permission of the controller of H.M.S.O. Crown Copyright Reserved. Licence No. 100022480. The information shown on this plan should be regarded as approximate and is intended for guidance only. No Liability of any kind whatsoever is accepted by Essex & Suffolk Water, it's servants or agents for any omission. The actual position of any mains shown on the plan must be established by taking trial holes in all cases. Essex & Suffolk Water must be given two working days notice of their intention to excavate trial holes. Private connections are not shown but their presence should be anticipated. WARNING...Where indicated on the plan there could be abandoned asbestos cement materials or shards of pipe. If excavating in the vicinity of these abandoned asbestos cement materials, the appropriate Health & Safety precautions should be taken. Essex & Suffolk Water accepts no liability in respect of claims, costs, losses or other liabilities which arise as the result of the presence of the pipes or any failure to take adequate precautions. Emergency Telephone Number: 0345 782 0999



Asset location search



Property Searches

Apogee
Hall Park CourtHall Park Way
TELFORD
TELFORD
TF1 3PT

Search address supplied 49
Keir Hardie Way
Barking
IG11 9NU

Your reference 421488

Our reference ALS/ALS Standard/2020_4247936

Search date 4 September 2020

Knowledge of features below the surface is essential for every development

The benefits of this knowledge not only include ensuring due diligence and avoiding risk, but also being able to ascertain the feasibility of any development.

Did you know that Thames Water Property Searches can also provide a variety of utility searches including a more comprehensive view of utility providers' assets (across up to 35-45 different providers), as well as more focused searches relating to specific major utility companies such as National Grid (gas and electric).

Contact us to find out more.



Thames Water Utilities Ltd
Property Searches, PO Box 3189, Slough SL1 4WW
DX 151280 Slough 13



searches@thameswater.co.uk
www.thameswater-propertysearches.co.uk



0845 070 9148

Search address supplied: 49, Keir Hardie Way, Barking, IG11 9NU

Dear Sir / Madam

An Asset Location Search is recommended when undertaking a site development. It is essential to obtain information on the size and location of clean water and sewerage assets to safeguard against expensive damage and allow cost-effective service design.

The following records were searched in compiling this report: - the map of public sewers & the map of waterworks. Thames Water Utilities Ltd (TWUL) holds all of these.

This search provides maps showing the position, size of Thames Water assets close to the proposed development and also manhole cover and invert levels, where available.

Please note that none of the charges made for this report relate to the provision of Ordnance Survey mapping information. The replies contained in this letter are given following inspection of the public service records available to this company. No responsibility can be accepted for any error or omission in the replies.

You should be aware that the information contained on these plans is current only on the day that the plans are issued. The plans should only be used for the duration of the work that is being carried out at the present time. Under no circumstances should this data be copied or transmitted to parties other than those for whom the current work is being carried out.

Thames Water do update these service plans on a regular basis and failure to observe the above conditions could lead to damage arising to new or diverted services at a later date.

Contact Us

If you have any further queries regarding this enquiry please feel free to contact a member of the team on 0845 070 9148, or use the address below:

Thames Water Utilities Ltd
Property Searches
PO Box 3189
Slough
SL1 4WW

Email: searches@thameswater.co.uk

Web: www.thameswater-propertysearches.co.uk

Waste Water Services

Please provide a copy extract from the public sewer map.

Enclosed is a map showing the approximate lines of our sewers. Our plans do not show sewer connections from individual properties or any sewers not owned by Thames Water unless specifically annotated otherwise. Records such as "private" pipework are in some cases available from the Building Control Department of the relevant Local Authority.

Where the Local Authority does not hold such plans it might be advisable to consult the property deeds for the site or contact neighbouring landowners.

This report relates only to sewerage apparatus of Thames Water Utilities Ltd, it does not disclose details of cables and or communications equipment that may be running through or around such apparatus.

The sewer level information contained in this response represents all of the level data available in our existing records. Should you require any further Information, please refer to the relevant section within the 'Further Contacts' page found later in this document.

For your guidance:

- The Company is not generally responsible for rivers, watercourses, ponds, culverts or highway drains. If any of these are shown on the copy extract they are shown for information only.
- Any private sewers or lateral drains which are indicated on the extract of the public sewer map as being subject to an agreement under Section 104 of the Water Industry Act 1991 are not an 'as constructed' record. It is recommended these details be checked with the developer.

Clean Water Services

Please provide a copy extract from the public water main map.

With regard to the fresh water supply, this site falls within the boundary of another water company. For more information, please redirect your enquiry to the following address:

Essex & Suffolk Water
PO Box 292
Durham
DH1 9TXX



Tel: 0845 782 0111
Fax: 0191 301 6202

For your guidance:

- Assets other than vested water mains may be shown on the plan, for information only.
- If an extract of the public water main record is enclosed, this will show known public water mains in the vicinity of the property. It should be possible to estimate the likely length and route of any private water supply pipe connecting the property to the public water network.

Payment for this Search

A charge will be added to your suppliers account.

Further contacts:

Waste Water queries

Should you require verification of the invert levels of public sewers, by site measurement, you will need to approach the relevant Thames Water Area Network Office for permission to lift the appropriate covers. This permission will usually involve you completing a TWOSA form. For further information please contact our Customer Centre on Tel: 0845 920 0800. Alternatively, a survey can be arranged, for a fee, through our Customer Centre on the above number.

If you have any questions regarding sewer connections, budget estimates, diversions, building over issues or any other questions regarding operational issues please direct them to our service desk. Which can be contacted by writing to:

Developer Services (Waste Water)
Thames Water
Clearwater Court
Vastern Road
Reading
RG1 8DB

Tel: 0800 009 3921
Email: developer.services@thameswater.co.uk

Clean Water queries

Should you require any advice concerning clean water operational issues or clean water connections, please contact:

Developer Services (Clean Water)
Thames Water
Clearwater Court
Vastern Road
Reading
RG1 8DB

Tel: 0800 009 3921
Email: developer.services@thameswater.co.uk



The width of the displayed area is 200 m and the centre of the map is located at OS coordinates 546499,184060
The position of the apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. Service pipes are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Thames Water for any error or omission. The actual position of mains and services must be verified and established on site before any works are undertaken.

Based on the Ordnance Survey Map with the Sanction of the controller of H.M. Stationery Office, License no. 100019345 Crown Copyright Reserved.

NB. Levels quoted in metres Ordnance Newlyn Datum. The value -9999.00 indicates that no survey information is available

Manhole Reference	Manhole Cover Level	Manhole Invert Level
511C	n/a	n/a
511B	n/a	n/a
411E	n/a	n/a
411I	n/a	n/a
4101	6.87	5.64
5102	6.47	n/a
5103	6.42	n/a
511A	n/a	n/a
511D	n/a	n/a
401O	n/a	n/a
401P	n/a	n/a
401Q	n/a	n/a
401R	n/a	n/a
501B	n/a	n/a
401M	n/a	n/a
401N	n/a	n/a
401A	n/a	n/a
401F	n/a	n/a
401G	n/a	n/a
401B	n/a	n/a
401H	n/a	n/a
401C	n/a	n/a
5005	6.6	4.61
401I	n/a	n/a
401D	n/a	n/a
401J	n/a	n/a
401K	n/a	n/a
5003	6.57	n/a
501A	n/a	n/a
5001	6.59	n/a
401E	n/a	n/a
401L	n/a	n/a
4002	6.84	4.96
4004	6.8	5.68
501C	n/a	n/a
4001	6.8	5.46
4103	6.72	4.46
4102	6.74	4.86
411A	n/a	n/a
411J	n/a	n/a
5905	6.77	n/a
5004	6.65	n/a
5002	6.65	n/a
The position of the apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. Service pipes are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Thames Water for any error or omission. The actual position of mains and services must be verified and established on site before any works are undertaken.		



ALS Sewer Map Key

Public Sewer Types (Operated & Maintained by Thames Water)

	Foul: A sewer designed to convey waste water from domestic and industrial sources to a treatment works.
	Surface Water: A sewer designed to convey surface water (e.g. rain water from roofs, yards and car parks) to rivers or watercourses.
	Combined: A sewer designed to convey both waste water and surface water from domestic and industrial sources to a treatment works.
	Trunk Surface Water
	Trunk Foul
	Storm Relief
	Trunk Combined
	Vent Pipe
	Bio-solids (Sludge)
	Proposed Thames Surface Water Sewer
	Proposed Thames Water Foul Sewer
	Gallery
	Foul Rising Main
	Surface Water Rising Main
	Combined Rising Main
	Sludge Rising Main
	Proposed Thames Water Rising Main
	Vacuum

Notes:

- 1) All levels associated with the plans are to Ordnance Datum Newlyn.
- 2) All measurements on the plans are metric.
- 3) Arrows (on gravity fed sewers) or flecks (on rising mains) indicate direction of flow.
- 4) Most private pipes are not shown on our plans, as in the past, this information has not been recorded.
- 5) 'na' or '0' on a manhole level indicates that data is unavailable.

Sewer Fittings

A feature in a sewer that does not affect the flow in the pipe. Example: a vent is a fitting as the function of a vent is to release excess gas.

	Air Valve
	Dam Chase
	Fitting
	Meter
	Vent Column

Operational Controls

A feature in a sewer that changes or diverts the flow in the sewer. Example: A hydrobrake limits the flow passing downstream.

	Control Valve
	Drop Pipe
	Ancillary
	Weir

End Items

End symbols appear at the start or end of a sewer pipe. Examples: an Undefined End at the start of a sewer indicates that Thames Water has no knowledge of the position of the sewer upstream of that symbol, Outfall on a surface water sewer indicates that the pipe discharges into a stream or river.

	Outfall
	Undefined End
	Inlet

Other Symbols

Symbols used on maps which do not fall under other general categories

	Public/Private Pumping Station
	Change of characteristic indicator (C.O.C.I.)
	Invert Level
	Summit

Areas

Lines denoting areas of underground surveys, etc.

	Agreement
	Operational Site
	Chamber
	Tunnel
	Conduit Bridge

Other Sewer Types (Not Operated or Maintained by Thames Water)

	Foul Sewer
	Surface Water Sewer
	Combined Sewer
	Gully
	Culverted Watercourse
	Proposed
	Abandoned Sewer

- 6) The text appearing alongside a sewer line indicates the internal diameter of the pipe in millimetres. Text next to a manhole indicates the manhole reference number and should not be taken as a measurement. If you are unsure about any text or symbology present on the plan, please contact a member of Property Insight on 0845 070 9148.

Terms and Conditions

All sales are made in accordance with Thames Water Utilities Limited (TWUL) standard terms and conditions unless previously agreed in writing.

1. All goods remain in the property of Thames Water Utilities Ltd until full payment is received.
2. Provision of service will be in accordance with all legal requirements and published TWUL policies.
3. All invoices are strictly due for payment 14 days from due date of the invoice. Any other terms must be accepted/agreed in writing prior to provision of goods or service, or will be held to be invalid.
4. Thames Water does not accept post-dated cheques-any cheques received will be processed for payment on date of receipt.
5. In case of dispute TWUL's terms and conditions shall apply.
6. Penalty interest may be invoked by TWUL in the event of unjustifiable payment delay. Interest charges will be in line with UK Statute Law 'The Late Payment of Commercial Debts (Interest) Act 1998'.
7. Interest will be charged in line with current Court Interest Charges, if legal action is taken.
8. A charge may be made at the discretion of the company for increased administration costs.

A copy of Thames Water's standard terms and conditions are available from the Commercial Billing Team (cashoperations@thameswater.co.uk).

We publish several Codes of Practice including a guaranteed standards scheme. You can obtain copies of these leaflets by calling us on 0800 316 9800

If you are unhappy with our service you can speak to your original goods or customer service provider. If you are not satisfied with the response, your complaint will be reviewed by the Customer Services Director. You can write to her at: Thames Water Utilities Ltd. PO Box 492, Swindon, SN38 8TU.

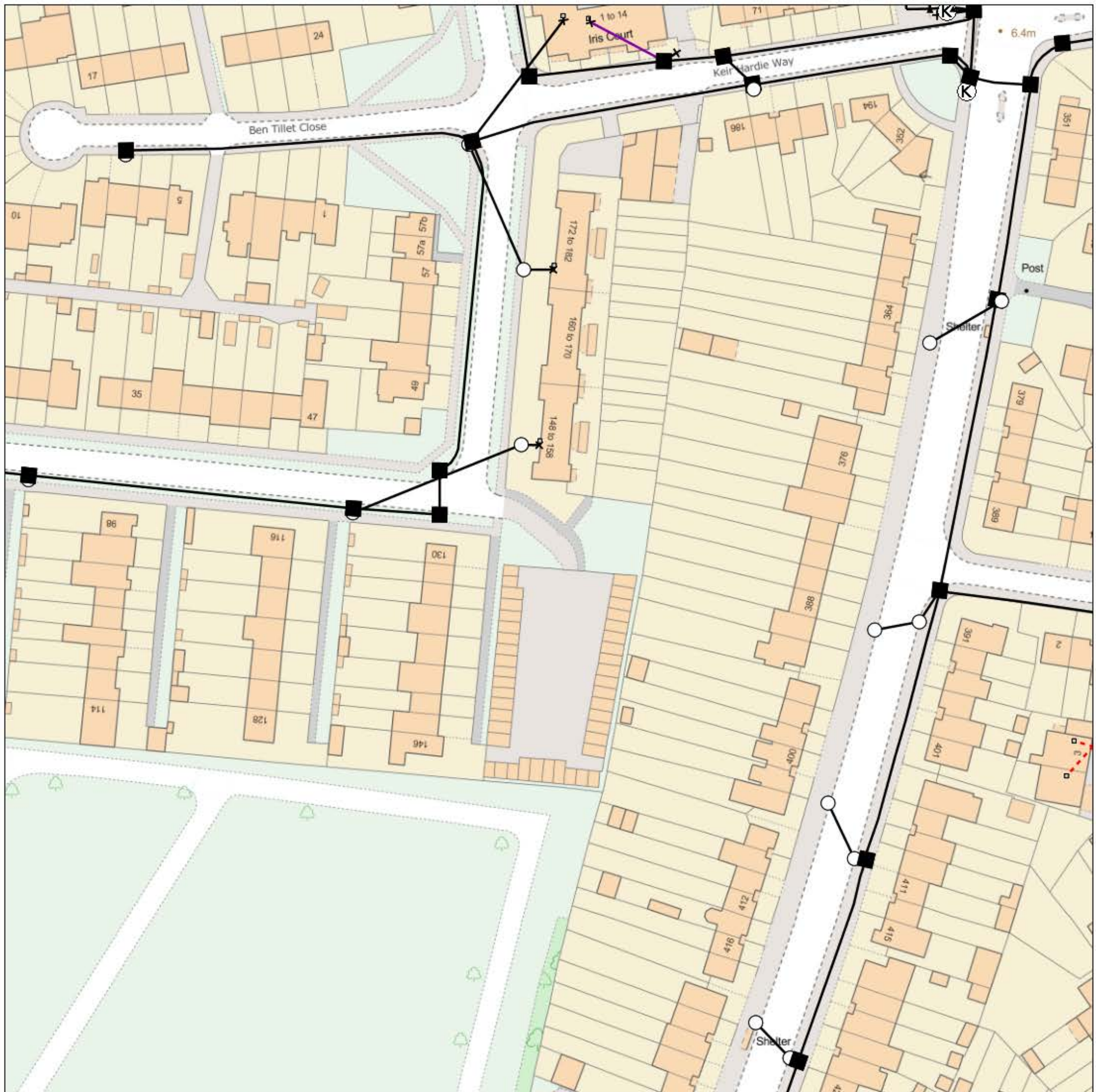
If the Goods or Services covered by this invoice falls under the regulation of the 1991 Water Industry Act, and you remain dissatisfied you can refer your complaint to Consumer Council for Water on 0121 345 1000 or write to them at Consumer Council for Water, 1st Floor, Victoria Square House, Victoria Square, Birmingham, B2 4AJ.

Ways to pay your bill

Credit Card	BACS Payment	Telephone Banking	Cheque
Call 0845 070 9148 quoting your invoice number starting CBA or ADS / OSS	Account number 90478703 Sort code 60-00-01 A remittance advice must be sent to: Thames Water Utilities Ltd., PO Box 3189, Slough SL1 4WW. or email ps.billing@thameswater.co.uk	By calling your bank and quoting: Account number 90478703 Sort code 60-00-01 and your invoice number	Made payable to ' Thames Water Utilities Ltd ' Write your Thames Water account number on the back. Send to: Thames Water Utilities Ltd., PO Box 3189, Slough SL1 4WW or by DX to 151280 Slough 13

Thames Water Utilities Ltd Registered in England & Wales No. 2366661 Registered Office Clearwater Court, Vastern Rd, Reading, Berks, RG1 8DB.

Maps by email Plant Information Reply



IMPORTANT WARNING

Information regarding the location of BT apparatus is given for your assistance and is intended for general guidance only. No guarantee is given of its accuracy. It should not be relied upon in the event of excavations or other works being made near to BT apparatus which may exist at various depths and may deviate from the marked route.



openreach

CLICK BEFORE YOU DIG

FOR PROFESSIONAL FREE ON SITE ASSISTANCE PRIOR TO COMMENCEMENT OF EXCAVATION WORKS INCLUDING LOCATE AND MARKING SERVICE

email cbyd@openreach.co.uk

ADVANCE NOTICE REQUIRED
(Office hours: Monday - Friday 08.00 to 17.00)
www.openreach.co.uk/cbyd

Accidents happen

If you do damage any Openreach equipment please let us know by calling 0800 023 2023 (opt 1 + opt 1) and we can get it fixed ASAP

KEY TO BT SYMBOLS

	Planned	Live	Change Of State	+	Hatchings	
PCP			Split Coupling	×	Built	
Pole			Duct Tee	▲	Planned	
Box			Building		Inferred	
Manhole			Kiosk		Duct	
Cabinet			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.			
	Pending Add	In Place	Pending Remove	Not In Use		
Power Cable						
Power Duct				N/A		

BT Ref : FAJ02278T

Map Reference : (centre) TQ4649884084

Easting/Northing : (centre) 546498,184084

Issued : 04/09/2020 14:27:25

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Controller of Her Majesty's Stationary Office
(C) Crown Copyright British Telecommunications plc 100028040

WARNING: IF PLANNED WORKS FALL INSIDE HATCHED AREA IT IS ESSENTIAL BEFORE PROCEEDING THAT YOU CONTACT THE NATIONAL NOTICE HANDLING CENTRE. PLEASE SEND E-MAIL TO: nnhc@openreach.co.uk



Special Requirements relating to the External Plant Network of Vodafone

Contents

1.	Introduction.....	1
2.	Purpose of document.....	1
3.	Scope.....	2
4.	Vodafone Network and Apparatus.....	2
5.	Plant records.....	2
6.	Definitions.....	2
7.	Requirements.....	3
8.	Depths of cover.....	3
9.	Separation.....	4
10.	Jointing chambers.....	5
11.	Notification periods.....	5
12.	Excavation and backfill.....	5
13.	Foam concrete.....	6
14.	Attendance of Company Representative.....	6
15.	Damage reports.....	6
16.	Appendix A – Street Works Team Contacts for Vodafone.....	7
17.	Appendix B – What constitutes Vodafone Network.....	8
18.	About this Document.....	13

1. Introduction

This document sets out the procedure that will apply when Other Parties intend or are undertaking works in the vicinity of Vodafone apparatus (see Appendix B for further information on what constitutes Vodafone apparatus).

2. Purpose of document

This document provides a means by which the Vodafone specific special requirements relating to their apparatus, regardless of it being situated in the public highway / road, private street, land or any other areas, is made aware to Other Parties.



3. Scope

This document will be presented to Other Parties or Contractors to encourage those undertaking works within the vicinity of Vodafone apparatus to refer to and comply with. This is in order to protect where necessary the Vodafone apparatus and to avoid damage to the apparatus and loss of service.

A National Joint Utilities Group (NJUG) document NJUG Volume 3 Guidelines on the Management of Third Party Cable Ducting provides useful reference material.

It should be noted that, where appropriate, additional information on avoiding danger from underground apparatus is contained within the HSG47 guidance book titled "Avoiding Danger from Underground Services."

4. Vodafone Network and Apparatus

Damage to Vodafone apparatus is extremely disruptive and can be expensive to repair, especially where long lengths of cable have to be replaced.

In order to maintain the network integrity and minimise disruption to service, it is essential that disturbances are absolutely minimal. When working within the vicinity of Vodafone apparatus, extreme care is necessary in order to avoid costly repairs. The Other Parties / Contractor shall make every effort to ensure that disturbance of Vodafone apparatus is no more than is absolutely necessary for the completion of the works in accordance with their contract. It should be noted that it is an offence to interfere with Vodafone apparatus without first contacting the company for advice.

5. Plant records

It is the responsibility of the Other Parties undertaking works which may affect Vodafone apparatus to obtain all relevant Vodafone plant records from our agent Atkins Global prior to works commencing. This may be done by contacting the Atkins Global Plant Enquiries Team listed in Appendix B.

Plant records for such enquiries will generally be provided within 10 working days of receipt and in compliance with the New Roads and Street Works Act 1991 [NRSWA] requirements.

6. Definitions

The following definitions are applicable in this document:

- a) **Apparatus** - means all surface or sub-surface equipment and plant used by Vodafone including any associated cables or ducts owned, leased or rented by Vodafone.
- b) **Cable** - means any polythene or other sheath containing optical fibres or metallic conductors.
- c) **Depth of cover** - means the depth from the surface to the topmost barrel of the duct nest, in the case of ducts encased in concrete, to the top of the concrete, and in the case of directly buried cable, the top of the cable.
- d) **Jointing chamber** - means any manhole, surface box or other chamber giving access to Vodafone apparatus or their network.
- e) **Utility** - means an organisation licensed to provide gas, water, electricity, Cable TV or telecommunications services.
- f) **Developer** - means an organisation licensed to develop industrial/residential premises or given license to connect to utility apparatus.



- g) **Contractor** - means the individual, firm or company contracted to undertake the work for a Utility or Other Parties.
- h) **Other Parties** - means the Utilities, Highway or Roads Authorities, Developers, Street/Roads Authority Section 50/109 licensees
- i) **Site** - means the location of, or in the vicinity of, the various works.

7. Requirements

Prior to commencing any work or moving heavy plant or equipment over any portion of the site, the Other Parties or Contractor shall notify Vodafone of their intentions. This may be done by contacting Vodafone via the contact list in Appendix B.

Upon receipt of this notification, Vodafone will identify if their apparatus is affected. If any Vodafone apparatus is affected by the works then they will arrange for the necessary records to be provided and confirm details of Vodafone apparatus and network operated within the affected area or adjacent to the proposed work site.

7.1 Location of Plant

It is the responsibility of the Other Parties or Contractors to undertake adequate plant location procedures. These may include searches for metallic cables which must be performed by actively inducing a signal in a cable conductor via a transmitter. A passive search is not considered sufficient.

Before applying a tracing signal to the Vodafone apparatus, the Other Parties or Contractors shall seek confirmation from Atkins Global that the Vodafone apparatus will not suffer any disruption to its networks normal workings as a result of the nature of the signal being induced.

7.2 Trial excavations

Optic fibre cables are very susceptible to damage from excavation tools. They are not electrically conductive and cannot be located by radio induction methods. Once an approximate location is known, the exact location must be ascertained by means of hand dug pilot holes. Where the work to be carried out by the Other Party or Contractor involves excavation in the vicinity of our apparatus, the Other Party or Contractor shall, by trial excavation at his own expense, determine the exact location and depth of the Vodafone apparatus. All excavations adjacent to the Vodafone apparatus are to be carried out by hand until the extent and /or location of the apparatus is known.

All excavation work shall be executed in accordance with the current issue of Health and Safety series booklet HSG47, Avoiding danger from underground services.

8. Depths of cover

The Other Party or Contractor should note that the minimum depths of cover for Vodafone apparatus shall be maintained together with specified separation requirements. Where the minimum depths of cover specified by Vodafone cannot be maintained, the Other Party or Contractor shall at their own expense, carry out the instructions of Vodafone requirements for the protection or diversion of their apparatus.

The Other Party or Contractor should have particular regard to the possibility of encountering Vodafone apparatus (including ducts and cables), at depths of cover other than that reported.

Surface cables (such as cables on bridges or walls) which are liable to be placed in danger from the Other Parties or Contractors works shall be protected, at the Other Parties expense, as directed by the Vodafone representative.



9. Separation

Reference should be made to HSG47 to ensure that adequate separation is achieved. The following details outline the specific requirements of Vodafone and capture the HSG47 requirements.

9.1 High voltage cables

High voltage single core cables of 1000 V and above shall have a minimum clearance from Company Apparatus of 500 mm.

High voltage multi-core cables of 1000 V and above shall have a minimum clearance from Company Apparatus of 350 mm.

In exceptional circumstances where the above clearances cannot be maintained, the separating distance may be reduced to a minimum of 175 mm. In such circumstances, concrete, of a quality as directed by the Company Representative, must be inserted to completely fill the space between the High Voltage cable and the Company Apparatus, in accordance with the requirements of the Company Representative. Any further services must have a minimum clearance of 250 mm from the concrete.

9.2 Low voltage cables

Low voltage cables of less than 1000 V shall have a minimum clearance from Company Apparatus of 180 mm. In exceptional circumstances where the above clearance cannot be maintained, the separating distance may be reduced to a minimum of 75 mm. In such circumstances, concrete, of a quality as directed by the Company Representative, must be inserted to completely fill the space between the services, in accordance with the requirements of the Company Representative. Any further services must have a minimum clearance of 250 mm from the concrete.

9.3 Ancillary electrical apparatus

Street furniture such as lamp posts, traffic posts and other such ancillary electrical apparatus shall have a minimum clearance of 150 mm from underground Company Apparatus and 600mm clearance from above ground Company Apparatus.

9.4 High pressure gas mains and other Undertakers plant/equipment

High pressure gas mains shall have a minimum clearance of 450 mm from Company Apparatus. All other undertakers' plant and equipment, when running in parallel with Company Apparatus, shall have a minimum clearance of 200mm. Where gas mains cross Company Apparatus, the minimum clearance shall be 200mm. All other undertakers' plant and equipment, when running across Company Apparatus, shall have a minimum clearance of 100 mm. NJUG Volume 1, Guidelines on the positioning and colour coding of underground utilities' apparatus refers.

9.5 Other Undertakers plant

Other undertakers' plant and equipment which runs in parallel with Company Apparatus shall have a minimum clearance of 200mm. All other undertakers' plant and equipment when running across Company Apparatus shall have a minimum clearance of 100mm.

9.6 Tramways

Each separating distance shall be individually agreed with the Company Representative.



10. Jointing chambers

10.1 Protection

Footway type jointing chambers are not designed to withstand carriageway loadings.

Where such chambers are liable to be placed at risk, either temporarily or permanently, from vehicular traffic or from the movement of plant and/or equipment, they will need to be adequately protected. Alternatively, they may have to be demolished and rebuilt to carriageway standards, at the Other Parties or Contractors expense under supervision of Vodafone representative.

All Vodafone jointing chambers and / or other access points shall be kept clear and unobstructed. Access for vehicles, winches, cable drums and / or any further equipment required by Vodafone for the maintenance of its apparatus, must be maintained at all reasonable times.

10.2 Access

The covers to Vodafone jointing chambers and / or apparatus shall only be lifted by means of the appropriate keys and under the direct supervision of a Vodafone representative. Other Parties or Contractors shall not enter any Vodafone jointing chamber and / or apparatus unless under the supervision of a Vodafone representative and in any case not before the mandatory gas test has been carried out in the presence of Vodafone representative and such checks have shown it to be safe to enter the Vodafone chamber and / or apparatus. The Other Parties or Contractors shall be given reasonable access to Vodafone apparatus and chambers when required.

11. Notification periods

Where the Other Parties or Contractors works or the movement of plant or equipment may endanger Vodafone apparatus, the Other Party or Contractor shall give the Vodafone **at least 7 working days'** notice in writing of the intended date to commence operations.

No excavation should be made without first consulting the relevant Vodafone apparatus layout drawings, which will be made available from the Vodafone agent Atkins Global on request and allowing 28 working days for processing the relevant drawings. However, should this not be possible, direct contact should be made to the Atkins Global Plant Enquiries Team as soon as possible to assess the situation.

When excavating, moving or backfilling (including use of Foamed Concrete for Reinstatements— FCR) around Vodafone apparatus, Vodafone shall be given adequate prior written notice of the Other Parties or Contractors intentions, in order that the works may be adequately supervised. Such notice shall not be less than 3 working days.

12. Excavation and backfill

All excavations adjacent to Vodafone apparatus are to be carried out by hand until the extent and or location of the Vodafone apparatus is known.

Use of mechanical borers and / or excavators shall not be used without the supervisory presence of a Vodafone representative or a given exemption.

Shuttering of the excavation or support to Vodafone apparatus, at the Other Parties or Contractors expense, shall be used as directed by the Vodafone representative.

At least 7 working days' notice must be given to Vodafone in order that any special protective measures which may be required to protect Vodafone apparatus, at the Other Parties or Contractors expense, when equipment such as pile driving, explosives, laser cutting high powered RF equipment or RF test gear, is to be used in conjunction with the works.



Other Parties or Contractors are advised to refer to the National Joint Utilities Group publication: NJUG Volume 1- Guidelines on the Positioning and Colour Coding of Underground Utilities' Apparatus

13. Foam concrete

If foam concrete is being used as the backfill material, it shall not be used either above or within 500 mm of any Company Apparatus. A suitable material in accordance with the specification for the Reinstatement of Openings in Highways shall be substituted.

14. Attendance of Company Representative

If a situation requires the attendance on site of a Vodafone representative for a continuous period of more than 6 hours, suitable facilities shall be provided by the Other Party or Contractor, at their expense, to meet the office and ablution requirements. If a situation arises that requires urgent attention Vodafone will endeavour to attend site within 2 hours for all other occasions arising, 24 hours.

15. Damage reports

In the event of any damage whatsoever occurring to Vodafone apparatus, the Other Party or Contractor shall immediately inform Vodafone by contacting their 24/7 number , (for contact details please refer to Appendix A).

All relevant costs of any subsequent repair and / or removal of the Vodafone apparatus shall be charged to the Other Party or Contractor, irrespective of who affects the repair.

The above requirements do not relieve the Other Party or Contractor of any of their obligations under their contract.



16. Appendix A – Street Works Team Contacts for Vodafone

Function	Address	Phone	Email Address
Streetworks Team	Vodafone Damage Claims, Pavilion 4, 1-2 Berkeley Square , 99 Berkeley Street Glasgow G3 7HR	0333 304 0759	utilitiescentre@vodafone.com
Customer Complaints	n/a	0333 304 0762	n/a
Liability Claims Or Damage to Vodafone Apparatus	Vodafone Damage Claims, Pavilion 4, 1-2 Berkeley Square , 99 Berkeley Street Glasgow G3 7HR	0333 304 1104	claims@vodafone.com
Diversionary Works C2	Atkins Global, The Hub, 500 Park Avenue, Aztec West, Bristol, BS32 4RZ	T: 01454 662881	osm.enquiries@atkinsglobal.com
Diversionary Works C3/C4 Escalations	Smale House, Floor 2E, 114 Great Suffolk Street, London, SE1 OSL	+44 13446 02635	c3requests@vodafone.com
Emergencies 24 Hour – Defects & Faults	n/a	0333 304 0762	n/a
Plant Enquiries Vodafone inc: Cable & Wireless; Mercury Communications; Thus Plc; Energis; Scottish Telecom; Your Comms; Norweb Comms	Atkins Global, The Hub, 500 Park Avenue, Aztec West, Bristol, BS32 4RZ	T: 01454 662881	osm.enquiries@atkinsglobal.com



17. Appendix B – What constitutes Vodafone Network

Vodafone own fibre network dedicated to business and residential users of telecommunications and has an international cable network that provides connectivity to 153 countries, either directly or indirectly through partners, reaching across the Atlantic Ocean, through Europe and on to India and throughout Asia. Spanning approximately 500,000 km in length, including interests in more than 69 major global cable systems, our next-generation network improves the quality and performance of telecommunications services through our use of advance optical and IP transmission.

In the UK & Ireland Vodafone's overall network includes the following legacy networks now owned through acquisitions or Company name changes.

Below are examples of what you could see on the streets and should be aware of:



Vodafone Limited



Cable & Wireless U.K





Mercury Communications Limited



Energis Communications Limited



Thus plc





Scottish Telecom



Your Communications





Norweb Communications



Our apparatus is installed in roads and streets of UK and Ireland, however in some places is undistinguishable from other operators' apparatus, for example in City Centres where high quality infill modular paving chamber covers are found; some with labels and some without.

See below as examples:





The apparatus shown here is now owned, maintained and still in operation by Vodafone and includes.

Vodafone Limited

Cable & Wireless U.K

Mercury Communications Limited

Energis Communications Limited

Thus plc, now Thus Group Holdings Limited

Your Communications Group Limited

Please see the Contact Details in Appendix A for Plant Enquiries and help on site.



18. About this Document

Content Owner

Changes since last version

Reformatted using the current Vodafone template to include updated Contact Details .

End of Document





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Legend

- Access Chamber.Location Active Carriageway Chamber
- Access Chamber.Location Active Footway Chamber
- Underground Route.Route Act. - Owned
- Underground Route.Route Act. - Leased



Vodafone Limited (No01471587) registered office is at Vodafone House, The Connection, Newbury, Berkshire, RG142FN

Plot Date : 07/09/2020	Scale : 1:1250
------------------------	----------------

This plan shows apparatus owned by members of the Vodafone Group of companies (including legacy telecommunication companies currently within the group)

Information with regard to such apparatus should always be obtained from Vodafone or its appointed agents.

Apogee Utility Consultant Limited
Blount House
Hall Court
Hall Park Way
Telford
TF3 4NQ

Virgin Media
Field Services
Units 1-12
Broad Lane
Mayfair Business Park
Bradford
Yorkshire
BD4 8PW

Tel: 0870 888 3116 Opt 2

Fax: 01268 468557



Plant Enquiry Ref: VM.1171467
Your Letter Date: 04.09.2020
Your Ref: 421489
Date: 07.09.2020

Dear Sir /Madam

Enquiry Location: Becontree Avenue, RM8 2TS.

Thank you for your enquiry regarding work at the above location.

Virgin Media and Viatel plant should not be affected by your proposed work and no strategic additions to our existing network are envisaged in the immediate future.

Should your request be in relation to a Residential New Development, Virgin Media would like the opportunity to assist with your diversionary quote and serve your site free of charge, offering your customers the fastest widely available broadband speeds on the market up to 500Mbps.

For Commercial New Developments our team can also be reached through the below link, ensuring future businesses to your site are connected to our fibre network.

Simply head over to www.virginmedia.com/developer and fill in the enquiry form and a member of our New Developments team will be in touch within 48 hours. You will also find useful information about additional benefits to you and your site, plus a handy 'developers guide' can be downloaded with detailed installation requirements.

Or if you prefer to talk, please call the New Developments team on: 0800 408 0088 Option 2

Yours faithfully,

National Plant Enquiries Team
Email: plant.enquiries.team@virginmedia.co.uk

Please note: National Plant Enquiries Team (Bradford) cover and respond to plant enquiries for all ex ntl: Telewest franchise areas.

Enquirer

Name	Mr Max Coetzee	Phone	44 (0) 1952 798 679
Company	Apogee	Mobile	Not Supplied
Address	Blount House Hall Court Hall Park Way Telford Shropshire TF3 4NQ		
Email	max.coetzee@apogeeutilityconsultants.co.uk		

Enquiry Details

Scheme/Reference	421488		
Enquiry type	Initial Enquiry	Work category	Utility Works
Start date	02/10/2020	Work type	Single excavation site
End date	29/10/2020	Site size	9023 metres square
Searched location	IG11 9NU	Work type buffer*	25 metres
Confirmed location	546496 184056		
Site Contact Name	Not Supplied	Site Phone No	Not Supplied
Description of Works			

* The WORK TYPE BUFFER is a distance added to your search area based on the Work type you have chosen.

Site Map


Asset Owners

Terms and Conditions. Please note that this enquiry is subject always to our standard terms and conditions available at www.lineasearchbeforeudig.co.uk ("Terms of Use") and the disclaimer at the end of this document. Please note that in the event of any conflict or ambiguity between the terms of this Enquiry Confirmation and the Terms of Use, the Terms of Use shall take precedence.

Notes. Please ensure your contact details are correct and up to date on the system in case the LSBUD Members need to contact you.

Validity and search criteria. The results of this enquiry are based on the confirmed information you entered and are valid only as at the date of the enquiry. It is your responsibility to ensure that the Enquiry Details are correct, and LineasearchbeforeUdig accepts no responsibility for any errors or omissions in the Enquiry Details or any consequences thereof. LSBUD Members update their asset information on a regular basis so you are advised to consider this when undertaking any works. It is your responsibility to choose the period of time after which you need to resubmit any enquiry but the maximum time (after which your enquiry will no longer be dealt with by the LSBUD Helpdesk and LSBUD Members) is 28 days. If any details of the enquiry change, particularly including, but not limited to, the location of the work, then a further enquiry must be made.

Asset Owners & Responses. Please note the enquiry results include the following:

1. "LSBUD Members" who are asset owners who have registered their assets on the LSBUD service.
2. "Non LSBUD Members" are asset owners who have not registered their assets on the LSBUD service but LSBUD is aware of their existence. Please note that there could be other asset owners within your search area.

Below are three lists of asset owners:

1. **LSBUD Members who have assets registered within your search area. ("Affected")**
 - a. These LSBUD Members will either:
 - i. Ask for further information ("Email Additional Info" noted in status). The additional information includes: Site contact name and number, Location plan, Detailed plan (minimum scale 1:2500), Cross sectional drawings (if available), Work Specification.
 - ii. Respond directly to you ("Await Response"). In this response they may either send plans directly to you or ask for further information before being able to do so, particularly if any payments or authorisations are required.
2. **LSBUD Members who do not have assets registered within your search area. ("Not Affected")**
3. **Non LSBUD Members who may have assets within your search area.** Please note that this list is not exhaustive and all details are provided as a guide only. It is your responsibility to identify and consult with all asset owners before proceeding.

National Grid. Please note that the LSBUD service only contains information on National Grid's Gas above 7 bar asset, all National Grid Electricity Transmission assets and National Grid's Gas Distribution Limited above 2 bar asset.

For National Grid Gas Distribution Ltd below 2 bar asset information please go to www.beforeyoudig.nationalgrid.com

LSBUD Members who have assets registered on the LSBUD service within the vicinity of your search area.

List of affected LSBUD members

Asset Owner	Phone/Email	Emergency Only	Status
Essex & Suffolk Water	03702417408	03702417408	Await response
UK Power Networks	08000565866	08000565866	Await response

LSBUD Members who do not have assets registered on the LSBUD service within the vicinity of your search area. Please be aware that LSBUD Members make regular changes to their assets and this list may vary for new enquiries in the same area.

List of not affected LSBUD members

AWE Pipeline	Balfour Beatty Investments Limited	BOC Limited (A Member of the Linde Group)
BP Exploration Operating Company Limited	BPA	Carrington Gas Pipeline
CATS Pipeline c/o Wood Group PSN	Cemex	Centrica Storage Ltd
Chrysaor Production (UK) Limited	CLH Pipeline System Ltd	CNG Services Ltd
Concept Solutions People Ltd	ConocoPhillips (UK) Teesside Operator Ltd	Diamond Transmission Corporation
DIO (MOD Abandoned Pipelines)	Drax Group	E.ON UK CHP Limited
EirGrid	Electricity North West Limited	ENI & Himor c/o Penspen Ltd
EnQuest NNS Limited	EP Langage Limited	ESP Utilities Group
ESSAR	Esso Petroleum Company Limited	Fulcrum Pipelines Limited
Gamma	Gas Networks Ireland (UK)	Gateshead Energy Company
Gigaclear Ltd	Gtt	Heathrow Airport LTD
Humbly Grove Energy	IGas Energy	INEOS FPS Pipelines
INEOS Manufacturing (Scotland and TSEP)	INOVYN Enterprises Limited	Intergen (Coryton Energy or Spalding Energy)
Jurassic Fibre Ltd	Mainline Pipelines Limited	Manchester Jetline Limited
Manx Cable Company	Marchwood Power Ltd (Gas Pipeline)	Melbourn Solar Limited
Murphy Utility Assets	National Grid Gas (Above 7 bar), National Grid Gas Distribution Limited (Above 2 bar) and National Grid Electricity Transmission	NPower CHP Pipelines
NYnet Ltd	Oikos Storage Limited	Ørsted
Perenco UK Limited (Purbeck Southampton Pipeline)	Petroineos	Phillips 66
Portsmouth Water	Premier Transmission Ltd (SNIP)	Redundant Pipelines - LPDA
RWE - Great Yarmouth Pipeline (Bacton to Great Yarmouth Power Station)	RWEnpower (Little Barford and South Haven)	SABIC UK Petrochemicals
Scottish and Southern Electricity Networks	Scottish Power Generation	Seabank Power Ltd
SES Water	SGN	Shell
Shell NOP	SSE (Peterhead Power Station)	SSE Enterprise Telecoms
SSE Generation Ltd	SSE Utility Solutions Limited	Tata Communications (c/o JSM Construction Ltd)
Total (Colnbrook & Colwick Pipelines)	Total Finaline Pipelines	Transmission Capital
Uniper UK Ltd	University of Cambridge Granta Backbone Network	Vattenfall

Veolia ES SELCHP Limited

Veolia ES Sheffield Ltd

Wales and West Utilities

West of Duddon Sands Transmission Ltd

Western Power Distribution

Westminster City Council

Zayo Group UK Ltd c/o JSM Group Ltd

From: assetrecords@utilityassets.co.uk
To: [Max Coetzee](#)
Subject: Re: C2 ENQUIRY REQUEST 421488 Keir Hardie Way
Date: 04 September 2020 14:12:04

Thank you for recently contacting Utility Assets plant record department. We will check whether we have any plant present at your site and contact you within 5 - 7 working days ONLY if we own any plant in the vicinity.

If we do not reply, we do not have any apparatus in the area of your works. However, PLEASE TAKE CARE when excavating around electricity cables in the event that not all cables present may be accurately shown. We recommend you use detecting equipment to map the site before excavating and fully comply with HSG47. DO NOT assume that a cable is dead if you don't have a record of its presence. The cable must be treated as live unless PROVEN DEAD by the cable owner. In case of emergency please contact your local electricity distribution company.

This is an automated reply from our dedicated asset records email address. If you receive further correspondence from us it will be from asset.manager@utilityassets.co.uk quoting a site reference number.

Asset Manager - Utility Assets Ltd

From: ricky.rowe@engie.com
To: [Jeremy Haigh](#)
Subject: RE: Postcode Confirmations
Date: 28 January 2020 11:51:28
Attachments: [image006.png](#)

1) Location of ENGIE's Apparatus

ENGIE has buried pipework either inside or very close to the area codes listed below:

- Birmingham – B1-B9, B15-B19
- Coventry – CV1, CV2, CV3
- Eastleigh – SO50
- Hatfield – Comet Square - AL10
- Leicester – LE1-LE5
- London
 - Bloomsbury - W1 (all sub codes), WC1 (all sub codes), WC2 (all sub codes), NW1, N1C
 - Olympic Site - E3, E7, E9, E10, E11, E13, E15, E20
 - Whitehall - SW1A, SW1E, SW1H, SW1P, SW1V, SW1Y
 - ExCel Exhibition Centre - E16
 - Embassy Quarter – SW8, SW11
- Southampton – SO14, SO15, SO17
- Leeds – LS2
- Newcastle – TBC
- Edinburgh – TBC

If the location of the request for information falls within the vicinity of any of these area codes then the location they specify should be looked into in greater detail and compared with the as-built drawings of ENGIE's network. If the location is not in the vicinity of any of these cities a negative response can immediately be returned.

Also note that ENGIE oversee the operation of the CHP engines at the below sites. Whilst there is buried network at these sites, ENGIE are not responsible for their operation and maintenance. These are mentioned purely for completion of records.

- Pimlico
- Royal Borough of Kensington & Chelsea

Kind regards

Ricky Rowe
Document Controller
Urban Energy
UK & Ireland

Kings Yard
5 Clarnico Lane
Queen Elizabeth Park
London E15 2HG

ricky.rowe@engie.com
Tel. +44 (0) 208 221 6530
Mob. +44 (0) 7814 773944

-
ENGIE



engie.co.uk

From: plantenquiryservice@gtc-uk.co.uk
To: [Max Coetzee](#)
Subject: GTC Plant Enquiry - Ref- 1483360
Date: 04 September 2020 14:20:49
Attachments: [1483360.png](#)

GTC Apparatus Not Found In Search Area

Our Plant Enquiry Service Ref: 1483360

Your Enquiry Ref: 421488

Dear Max,

Thank you for your enquiry concerning apparatus in the vicinity of your proposed work. GTC can confirm that we have no apparatus in the vicinity but please note that other asset owners may have and ensure all utility owners have been consulted. For your records, the search area is shown in the attached map.

Please note our assets now include those owned and operated by:

- GTC Pipelines Limited
- Independent Pipelines Limited
- Quadrant Pipelines Limited
- Electricity Network Company Limited
- Independent Power Networks Limited
- Independent Water Networks Limited
- Open Fibre Networks Limited
- Independent Community Heating Limited

If you have any queries or require any further information please do not hesitate to contact us.

Your sincerely,

GTC Plant Enquiry Service.

GTC
Synergy House
Woolpit Business Park
Woolpit
Bury St Edmunds
Suffolk, IP30 9UP
Tel: 01359 240363
plant.enquiries@gtc-uk.co.uk

NOTE:

This E-Mail originates from GTC, Synergy House, Woolpit Business Park, Woolpit, Bury St Edmunds, Suffolk, IP30 9UP

VAT Number: GB688 8971 40. Registered No: 029431.

DISCLAIMER

The information in this E-Mail and in any attachments is confidential and may be privileged. If you are

From: [Plant Enquiries](#)
To: [Max Coetzee](#)
Subject: RE: C2 ENQUIRY REQUEST 421488 Keir Hardie Way
Date: 07 September 2020 15:13:23
Attachments: [image001.png](#)

Dear Sir/Madam,

Thank you for submitting your recent plant enquiry.

Based on the information provided, I can confirm that Last Mile **does not** have any plant within the area(s) specified in your request.

If you require further assistance with outstanding enquiries, please call 03300 587 443.

Please ensure all plant enquiries are sent to plantenquiries@lastmile-uk.com

Regards

From: Max Coetzee <max.coetzee@apogeeutilityconsultants.co.uk>
Sent: 04 September 2020 14:12
To: Plant Enquiries <plantenquiries@lastmile-uk.com>
Subject: C2 ENQUIRY REQUEST 421488 Keir Hardie Way

Dear Sir or Madam,

ROADS AND STREET WORKS ACT 1991 PRELIMINARY ENQUIRY Appendix C2 of the Code of Practice (CoP) 'Measures Necessary Where Apparatus Is Affected By Major Works (Diversionary Works)'

My client is considering a scheme involving major highway works as detailed below:

Scheme Number: 421488
Location of Works: Keir Hardie Way
Postcode: IG11 9NU
O.S. Grid Ref.: 546498, 184084
Road No / Street Name: Keir Hardie Way
From: A1153
To: Keir Hardie Way
Description of Works: Utility Works
Expected Start Date: 02nd October 2020
Plans showing the area for the works are attached.

In order that all reasonable precautions may be taken to avoid risk to health and safety through contact with any of your existing apparatus during execution of the proposed works, please indicate the position and depth of your apparatus in the locality of the proposed works and return the plan to this office.

Notice under The Street Works (Registers, Notices, Directions and Designations) Regulations will



bitmap_layout select_raster

LEGEND

- EXISTING PLANT
- EXISTING PLANT

bitmap_layout select_raster

Head Office
CityFibre Holdings Ltd
15 Bedford Street,
London,
WC2E 9HE
Tel: 0845 293 0774
Web: www.cityfibre.com

Asset Office
CityFibre Holdings Ltd,
Rutherford House,
Birchwood,
Warrington,
WA3 6ZH
Email: asset.team@cityfibre.com

Disclaimer:

Information shown on this plan is for general guidance only.
No warranty is made as to its accuracy.
This plan must not be solely relied upon in the event of
excavation or other works being carried out in the vicinity
of Cityfibre plant.
No liability of any kind is accepted by Cityfibre, its agents or
servants for any error, omission, discrepancy or
deviation. This information is valid for the date printed.

Project
Plant Enquiry

Drawing
Existing Plant

Drawn by:
smallworld
Date: 04/09/2020

Drawing No.
CFH_EP_000001
Revision
001

Scale: 1:2500
A4
0m 20m 40m 60m 80m 100m
N

From: [Plantenquiries](#)
To: [Max Coetzee](#)
Subject: RE: C2 ENQUIRY REQUEST 421488 Keir Hardie Way
Date: 09 September 2020 11:20:03
Attachments: [image002.png](#)
[image003.png](#)
[image004.png](#)

Please Note: Our search criteria has changed. We previously searched for Colt Network which was within 200 metres, this has now changed to 50 metres. The negative response will be for all enquiries that the network is 50 metres or more away from the place of enquiry.

Dear Sir/Madam,

Thank you for your enquiry for the above reference.

We can confirm that Colt Technology Services do not have apparatus near the above location as presented on your submitted plan, if any development or scheme amendments fall outside the 50 metre perimeter new plans must be submitted for review.

Search is based on Overseeing Organisation Agent data supplied; we do not accept responsibility for O.O. Agent inaccurate data.

If we can be of any further assistance please do not hesitate to contact us.

Kind regards,

Plant Enquiry Team



Please consider the environment before printing this email.

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From: Max Coetzee <max.coetzee@apogeeutilityconsultants.co.uk>
Sent: 04 September 2020 14:13
To: Plantenquiries <plantenquiries@catelecomuk.com>
Subject: C2 ENQUIRY REQUEST 421488 Keir Hardie Way

Dear Sir or Madam,

From: plantenquiries@psgservices.co.uk
To: [Max Coetzee](#)
Subject: Scheme Number: 421488
Date: 09 September 2020 09:32:03

To Whom It May Concern:

Thank you for your recent enquiry regarding your proposed work at the above location.

euNetworks Fiber UK Limited do not have plant in the vicinity of your proposed works and no strategic additions to our existing network are envisaged in the immediate future.

This information is only valid for a period of 3 months so, if your start date is 3 months or more from the date of this email, please re-apply for updated information at our generic email address

ss: plantenquiries@psgservices.co.uk.

Kind regards

ALL PLANT ENQUIRIES AND DIVERSIONARY REQUESTS SHOULD BE ADDRESSED BY EMAIL TO THE OPERATIONS TEAM AT plantenquiries@psgservices.co.uk , WITH A PLAN AND FULL POSTAL ADDRESS OF YOUR ENQUIRY, THANK YOU



For and on behalf of euNetwork Fiber UK Limited

Thanks

Vivien Hart

T 01772 514453 | **E** plantenquiries@psgservices.co.uk



Telecommunications Survey, Planning, Engineering & GIS Services

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=====



Virus-free. www.avg.com

From: [Plantenquiries](#)
To: [Max Coetzee](#)
Subject: RE: E09-20-1347 C2 ENQUIRY REQUEST 421488 Keir Hardie Way
Date: 09 September 2020 09:48:32
Attachments: [image003.png](#)
[image004.png](#)
[image005.png](#)
[image006.png](#)

Dear Sir or Madam,

Thank you for your plant enquiry below.

We can confirm that CenturyLink Communications UK Limited (formerly Level 3), Global Crossing (Uk) Ltd, Global Crossing PEC, Fibernet UK Ltd and Fibrespan Ltd do not have any apparatus within the indicated works area.

Instalcom responds to plant enquiries for all of the above and therefore you only need send one plant enquiry to cover all of these companies.

Please note that this response is only valid for 3 months. If your works do not commence within this time period, please resubmit your plant enquiry for assessment before any works commence.

Regards

Plant Enquiries Administrator



Instalcom Limited
Borehamwood Ind Park
Rowley Lane
Borehamwood
WD6 5PZ

Office: +44 (0)208 731 4613
Fax: +44 (0)208 731 4601
Email: plantenquiries@instalcom.co.uk
Web: <http://www.instalcom.co.uk>



From: Max Coetzee [mailto:max.coetzee@apogeeutilityconsultants.co.uk]

From: [KPN Plant Enquiries](#)
To: [Max Coetzee](#)
Subject: RE: K09-20- 1163 C2 ENQUIRY REQUEST 421488 Keir Hardie Way
Date: 10 September 2020 13:36:45
Attachments: [image003.png](#)
[image004.png](#)
[image005.png](#)
[image007.png](#)



Dear Sir or Madam,

With reference to your plant enquiry below, we can confirm that KPN do not have any apparatus within the immediate proximity of your proposed works.

If you require any further information, please do not hesitate to contact us.

Please note that this response is only valid for 3 months. If your works do not commence within this time period, please resubmit your plant enquiry for assessment before any works commence.

Regards

Plant Enquiries Dept
Instalcom Limited
Borehamwood Ind. Park
Rowley Lane
Borehamwood
WD6 5PZ

Office: +44 (0)208 731 4613
Fax: +44 (0)208 731 4601
Email: kpn.plantenquiries@instalcom.co.uk
Web: <http://www.instalcom.co.uk>



From: Max Coetzee <max.coetzee@apogeeutilityconsultants.co.uk>
Sent: 04 September 2020 14:14
To: KPN Plant Enquiries <kpn.plantenquiries@instalcom.co.uk>

From: [Nraswa](#)
To: [Max Coetzee](#)
Subject: RE: C2 ENQUIRY REQUEST 421488 Keir Hardie Way
Date: 04 September 2020 14:15:51
Attachments: [image002.png](#)
[image003.png](#)

Hello,

Location / Ref no :

Scheme Number: 421488

Location of Works: Keir Hardie Way

Postcode: IG11 9NU

O.S. Grid Ref.: 546498, 184084

Road No / Street Name: Keir Hardie Way

At this time the KCOM Group PLC has no apparatus or proposals for new apparatus in the vicinity of these works and will not be affected by them. Please note this reply is valid for 3 months from the date of this letter.

KCOM now offer this service free on-line, to register for this please contact Tony Parker at Tony.Parker@Kcom.com

Kind Regards

Pete McSherry

NRSWA Planner – Field Engineering

Mobile/Cell: +44 (0) 748 453 9186

Email: pete.mcsherry@kcom.com

Web: www.kcom.com

KCOM

KCOM Commercial in Confidence

From: Max Coetzee <max.coetzee@apogeeutilityconsultants.co.uk>
Sent: 04 September 2020 14:14
To: Nraswa <nraswa@kcom.com>
Subject: C2 ENQUIRY REQUEST 421488 Keir Hardie Way

Dear Sir or Madam,

ROADS AND STREET WORKS ACT 1991 PRELIMINARY ENQUIRY Appendix C2 of the Code of Practice (CoP) 'Measures Necessary Where Apparatus Is Affected By Major Works (Diversionary

From: [NRSWA](#)
To: [Max Coetzee](#)
Subject: C2 ENQUIRY REQUEST 421488 Keir Hardie Way
Date: 04 September 2020 14:53:50
Attachments: [image003.png](#)



Thank you for your enquiry.

Please be advised that Sky Telecommunications Services Ltd will not be affected by your proposal.

Best endeavours have been made to ensure accuracy, however if you require further information, please contact us by email at nrswa@sky.uk.

Regards

NRSWA Department
Tech UK - Implementation
sky | TECHNOLOGY
✉ nrswa@sky.uk ☎ +44 20703232234

From: Max Coetzee <max.coetzee@apogeeutilityconsultants.co.uk>
Sent: 04 September 2020 14:14
To: NRSWA <nrswa.nrswa@sky.uk>
Subject: [EXTERNAL] C2 ENQUIRY REQUEST 421488 Keir Hardie Way

Dear Sir or Madam,

ROADS AND STREET WORKS ACT 1991 PRELIMINARY ENQUIRY Appendix C2 of the Code of Practice (CoP) 'Measures Necessary Where Apparatus Is Affected By Major Works (Diversionary Works)'

My client is considering a scheme involving major highway works as detailed below:

Scheme Number: 421488
Location of Works: Keir Hardie Way
Postcode: IG11 9NU
O.S. Grid Ref.: 546498, 184084
Road No / Street Name: Keir Hardie Way
From: A1153

From: [SOTA Plant Enquiries](#)
To: [Max Coetzee](#)
Subject: RE: S09-20- 0801 C2 ENQUIRY REQUEST 421488 Keir Hardie Way
Date: 10 September 2020 21:34:59
Attachments: [image003.png](#)
[image004.png](#)
[image005.png](#)
[image007.png](#)



Dear Sir or Madam,

With reference to your plant enquiry below, we can confirm that SOTA do not have any apparatus within the immediate proximity of your proposed works.

If you require any further information, please do not hesitate to contact us.

Please note that this response is only valid for 3 months. If your works do not commence within this time period, please resubmit your plant enquiry for assessment before any works commence.

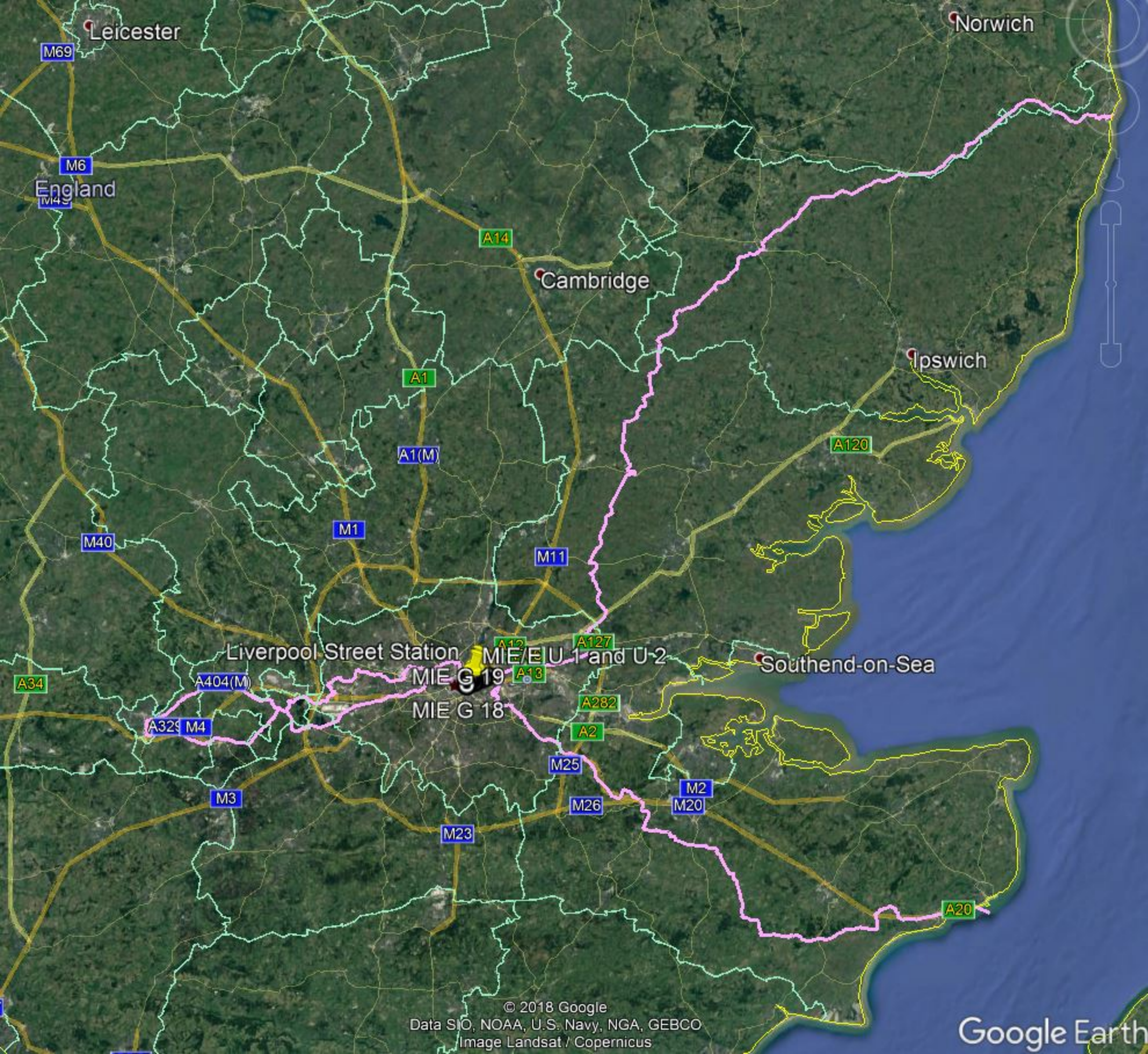
Regards

Plant Enquiries Dept.
Instalcom Limited
Borehamwood Ind. Park
Rowley Lane
Borehamwood
WD6 5PZ

Office: +44 (0)208 731 4613
Fax: +44 (0)208 731 4601
Email: sota.plantenquiries@instalcom.co.uk
Web: <http://www.instalcom.co.uk>



From: Max Coetzee <max.coetzee@apogeeutilityconsultants.co.uk>
Sent: 04 September 2020 14:14
To: SOTA Plant Enquiries <SOTA.PlantEnquiries@instalcom.co.uk>



From: [UK OSP-Team](#)
To: [Max Coetzee](#)
Cc: [UK OSP-Team](#)
Subject: RE: C2 ENQUIRY REQUEST 421488 Keir Hardie Way
Date: 04 September 2020 17:12:13
Attachments: [image001.png](#)

Dear Sir/Madam

Verizon is a licensed Statutory Undertaker.

We have reviewed your plans and have determined that Verizon (Formally known as MCI WorldCom, MFS) has no apparatus in the areas concerned.

If you have any further queries please do not hesitate to get in touch.

Yours faithfully

Plant Protection Officer E.mail osp-team@uk.verizon.com

From: Max Coetzee [<mailto:max.coetzee@apogeeutilityconsultants.co.uk>]
Sent: 4 September, 2020 2:14 PM
To: UK OSP-Team
Subject: [E] C2 ENQUIRY REQUEST 421488 Keir Hardie Way

Dear Sir or Madam,

ROADS AND STREET WORKS ACT 1991 PRELIMINARY ENQUIRY Appendix C2 of the Code of Practice (CoP) 'Measures Necessary Where Apparatus Is Affected By Major Works (Diversionary Works)'

My client is considering a scheme involving major highway works as detailed below:

Scheme Number: 421488
Location of Works: Keir Hardie Way
Postcode: IG11 9NU
O.S. Grid Ref.: 546498, 184084
Road No / Street Name: Keir Hardie Way
From: A1153
To: Keir Hardie Way
Description of Works: Utility Works
Expected Start Date: 02nd October 2020
Plans showing the area for the works are attached.

In order that all reasonable precautions may be taken to avoid risk to health and safety through contact with any of your existing apparatus during execution of the proposed works, please indicate the position and depth of your apparatus in the locality of the proposed works and return the plan to this office.

The image shows a mobile web browser interface with a Google Maps application. The browser's address bar contains the URL: mastedata.com/37/37_map_mobile_mast.aspx?Table=15&AdTy/D=438&ROName=IG11%209NU&Z=14. The map displays a residential neighborhood with streets such as Woodward Rd, Campsey Rd, Burnham Rd, and Keir Hardie Way. A yellow location pin is placed on Keir Hardie Way. At the bottom of the screen, there is a legend for various mobile network providers, including Orange, Vodafone, T-Mobile, Three, O2, BT, EE, and others. A search bar at the bottom left contains the text "IG11 9NU".

From: [TM Plant Enquiries](#)
To: [Max Coetzee](#)
Subject: Re: C2 ENQUIRY REQUEST 421488 Keir Hardie Way
Date: 07 September 2020 14:51:25
Attachments: [image001.png](#)

Our ref: Damian Sweeney TEL: 01234759112 or 07712129249

New Roads and Street Works Act 1991- Sections 83, 84,142 and 143 Codes of Practice Appendix C2

In response to your notice regarding works which you, are proposing to undertake.

I can confirm that *Trafficmaster* does not have equipment installed within the boundary of the works.

If you have any further queries regarding this or any other programme, please do not hesitate to contact me on my details below.

Yours sincerely
For & on Behalf of
Trafficmaster Ltd

Infrastructure Maintenance
plantenquiries@trafficmaster.co.uk

From: Max Coetzee <max.coetzee@apogeeutilityconsultants.co.uk>
Sent: Friday, September 4, 2020 1:14 PM
To: TM Plant Enquiries <plantenquiries@trafficmaster.co.uk>
Subject: C2 ENQUIRY REQUEST 421488 Keir Hardie Way

CAUTION: This email originated from outside the company.

Dear Sir or Madam,

ROADS AND STREET WORKS ACT 1991 PRELIMINARY ENQUIRY Appendix C2 of the Code of Practice (CoP) 'Measures Necessary Where Apparatus Is Affected By Major Works (Diversionary Works)'

My client is considering a scheme involving major highway works as detailed below:

Scheme Number: 421488
Location of Works: Keir Hardie Way
Postcode: IG11 9NU
O.S. Grid Ref.: 546498, 184084
Road No / Street Name: Keir Hardie Way
From: A1153
To: Keir Hardie Way
Description of Works: Utility Works

From: LULHVpowerassets@tfl.gov.uk
To: [Max Coetzee](#)
Subject: NRSWA Request Response - Your Reference 421488
Date: 04 September 2020 19:56:47

Our Ref: **FAJI54KF**
Your Ref: **421488**
Date: 04 September 2020

Name: **Max Coetzee**
Company Name: **Apogee utility consultants**

Dear Sir/Madam

We acknowledge receipt of your Letter / New Roads & Street Works Act Enquiry dated **04/09/20** relating to the following enquiry:

Location of Works: Keir Hardie Way
Postcode: IG11 9NU
O.S. Grid Ref.: 546498,184084
Road No / Street Name: Keir Hardie Way
From: A1153
To: Keir Hardie Way

We have no H.V. cables or cable duct routes in the immediate area in question. Please note that we only manage High Voltage, Pilot and Fibre Optic Cables for the London Underground distribution network.

Yours sincerely,

On Behalf of the H.V. Cables Manager

Title: NRSWA co-ordinator

Email: LULHVpowerassets@tfl.gov.uk

London Underground
Power Distribution
Units 7 & 8, Station Road
Drawing Office
Tufnell Park
London
N19 5UW
Tel: 0203 054 8418/0203 054 8354

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Transport for London is a statutory corporation whose principal office is at 5 Endeavour Square, London, E20 1JN. Further information about Transport for London's subsidiary companies can be found on the following link: <http://www.tfl.gov.uk/corporate/about-tfl/>

From: Elcock, Stephen on behalf of OP Buried Services Enquiries
To: Max Coetzee
Subject: RE: C2 ENQUIRY REQUEST 421488 Keir Hardie Way
Date: 04 September 2020 15:21:06
Attachments: imae003.png

OFFICIAL

Dear Sir/Madam,

With regards to your enquiry, Network Rail does not believe there is any Network Rail owned apparatus or underground services within the area you have defined. As there is always the possibility that new works could be planned and undertaken in this area by Network Rail this information is valid as at today's date and is supplied for general guidance only.

Please be aware that this response is based on Network Rail's records and knowledge and no guarantee can be given regarding accuracy or completeness. CAT scans, safe digging practices (as contained in HSE publications) and other appropriate investigative techniques should always be carried out.

There may be other apparatus or underground services owned or operated by Utility Companies and accordingly you should contact individual utilities for information.

If, in connection with your investigations and/or work, you become aware of Network Rail apparatus or underground services within your area of work, please ensure these are notified to our Asset Protection team via the following link as a matter of urgency so that appropriate measures for avoidance of risk and damage can be put in place.

Contact details can be found in the following link: [Network Rail Asset Protection Teams](#)

If you require any further clarification on any of the information please contact opburiedservicesenquiries@networkrail.co.uk.

Regards,

Stephen Elcock
Distribution Administrator



Worksite Survey

National Records Centre, Audax Rd, York, North Yorkshire, YO30 4US
T: 01904 386375
E: Stephen.Elcock@networkrail.co.uk
W: www.networkrail.co.uk

At Network Rail we work flexibly – so whilst it suits me to email now, I do not expect a response or action outside of your own working hours

From: Max Coetzee <max.coetzee@apogeeutilityconsultants.co.uk>
Sent: 04 September 2020 14:15
To: OP Buried Services Enquiries <OPBuriedServicesEnquiries@networkrail.co.uk>
Subject: C2 ENQUIRY REQUEST 421488 Keir Hardie Way

Dear Sir or Madam,

ROADS AND STREET WORKS ACT 1991 PRELIMINARY ENQUIRY Appendix C2 of the Code of Practice (CoP) 'Measures Necessary Where Apparatus Is Affected By Major Works (Diversenary Works)'
My client is considering a scheme involving major highway works as detailed below:

Scheme Number: 421488
Location of Works: Keir Hardie Way
Postcode: IG11 9NU
O.S. Grid Ref.: S46498, 184084
Road No / Street Name: Keir Hardie Way
From: A1153
To: Keir Hardie Way
Description of Works: Utility Works
Expected Start Date: 02nd October 2020
Plans showing the area for the works are attached.

In order that all reasonable precautions may be taken to avoid risk to health and safety through contact with any of your existing apparatus during execution of the proposed works, please indicate the position and depth of your apparatus in the locality of the proposed works and return the plan to this office.

Notice under The Street Works (Registers, Notices, Directions and Designations) Regulations will be sent to all Undertakers as appropriate.

Unless you notify us within 10 days setting out when you will be able to reply, it will be assumed that you are able to comply with the provision of Table 1 of Appendix C (i.e. that the information requested will be provided within 10 working days).

Should you require any further information, please contact us immediately,

Yours sincerely,

Max

Max Coetzee
Research Supervisor
The logo for Apogee Property, featuring a stylized 'A' made of three curved lines in blue and green.
Blount House
Hall Court
Hall Park Way
Telford, TF3 4NQ
Office +44 (0)1952 686570
DDI +44 (0)1952 686574
max.coetzee@apogeeutilityconsultants.co.uk
www.apogeeutilityconsultants.co.uk

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If you have received this email by mistake please notify us by emailing the sender, and then delete the email and any copies from your system.


Outline the property boundary

groundstability.com/public/web/log-order?execution=e354

your boundary.

Property address

49 KEIR HARDIE WAY, BARKING, BARKING AND DAGENHAM, IG11 9NU



Cancel


Previous

Next

Screen reference: MRP104

Recommended actions

groundstability.com/public/web/log-order?execution=e356

 The Coal Authority

You have 0 items in your basket

Call: 0345 762 6848

Home

Recommended actions

We can confirm your boundary is:

- located off the coalfield
- not within the Cheshire Brine Compensation District

Cancel

Previous

Next

Screen reference: MRP410

Definition of Report Terms

Affected Plant – Where plant records indicate that the utility has plant in or near to the site.

Not Affected – Where the utility or we (using our maps and resources) have determined that there is no plant in or near the site.

No Response Received – Despite our chasing we are still to receive a response from the utility, you will get further reiterations of the report until it is complete, with the exception of the Council where in some cases they never respond.

Vodafone & Virgin Media

Virgin Media Option: We find that Virgin are affected by a lot of our searches particularly in urban areas you should only not search Virgin where you are happy with the risk or have certainty they are not in the site area.

Vodafone Option: We find that Vodafone are affected in less than 10% of enquires but this increases in urban area and the South East particularly in London.

NB. Should you change your mind and require us to search any or all of these three after you have received your report or within 90 days of receiving your report we will process any or all of the above with you only paying the disbursement charge levied by the relevant utility. In the event that you have not received your Invoice then the additional costs will be added. In cases where your Invoice has been issued then a new one will be issued at the point at which you instruct us to complete the additional search.

Acronyms Key

Electric			
DNO	Distribution Network Operator	KVA	Kilo Volt Amperes
IDNO	Independent Distribution Network Operator	MVA	Mega Volt Amperes
ICP	Independent Connections Provider	AC	Alternating Current
LV	Low Voltage	S/S	Substation
HV	High Voltage	PMT	Pole Mounted Transformer
EHV	Extra High Voltage		
Water			
SLO	Self Lay Organisation	WRAS	Water Regulation Advisory Scheme
Incumbent	Local Water or Water & Sewerage Company		
Gas			
GT	Gas Transporter	LP	Low Pressure
IGT	Independent Gas Transporter	MP	Medium Pressure
UIP	Utility Infrastructure Provider	IP	Intermediate Pressure
PRS	Pressure Reducing Station (Governor)	HP	High Pressure
Others			
AP	Apogee Property & Utility Consultants	CATV	Cable Television
PE	Polyethylene	FTTP	Fibre to the premise
DI	Ductile Iron	FTTC	Fibre to the cabinet
ST	Steel	l/min	Litres per minute
CI	Cast Iron	H&S	Health & Safety
SI	Spun Iron	HBF	House Builders Federation
HPPE	High Performance Polyethylene	TPO	Tree Preservation Order
MDPE	Medium Density Polyethylene	TBC	To be confirmed
GRP	Glass Reinforced Plastic	N/A	Not Applicable

Important Information

Relevant Documents

The following documents must be referred to before work commences in the vicinity of existing services:

- Health and Safety Booklet HS (GS) 6 Avoidance of Danger from Overhead Electric Lines.
- General Safety Measures to Avoid Injury and Damage to Gas Apparatus.
- HSE Guidance Note HS (G) 47 Avoiding Danger from Underground Services.
- National Joint Utilities Group (NJUG) Publications Vol. 1.
- CDM Regulations 2015.
- PAS 128:2014 Specification for Underground Utility Detection, Verification and Location.

Basic Risk Assumption for all Services

When dealing with existing services the following assumptions must always be accepted:

- All existing buildings have gas, water electric and telecoms supplies to them until proven otherwise.
- Any supply to an existing building, no matter how old the building is or how deteriorated the supply may appear, is taken to be 'live' until proven otherwise.
- All open land, vacant lots and derelict sites are deemed to have services beneath them until proven otherwise.
- The only acceptable proof that a service is 'dead' and can be removed is written confirmation from the owner of the service.
- The quality and accuracy of information provided by utilities about their existing plant is indicative and no warranty is made as to its accuracy. Therefore, any utility asset maps and/or marked up drawings provided by each utility must only be used as a guide and the actual location of plant should be verified by CAT Scan GPR survey or trial holes before construction works commence.

Please note not all service connections are shown on the utility asset maps.

Plant Found Within Site Boundaries

Where utility plant is found within the site boundary, it is recommended for the client to check for legal easements or wayleaves a Wayleave search service is available from us please ask for a quotation.

Diversions of plant within site boundaries can be expensive and time consuming to relocate. Further investigation of costs and timescales are recommended. Please ask us for further details.