



**Apogee Property  
& Utility Consultants**



**Report Type: Full Utility Search**

**Apogee Job Number: 421491**

**Client Site Name: Goresbrook Road**

**Client Job Number: 166/20**

**Report Speed: 20 (Working) Day**

**Percentage Complete: 100%**

**No. Utilities Affected: 13**



**LASER  
SURVEYS.**

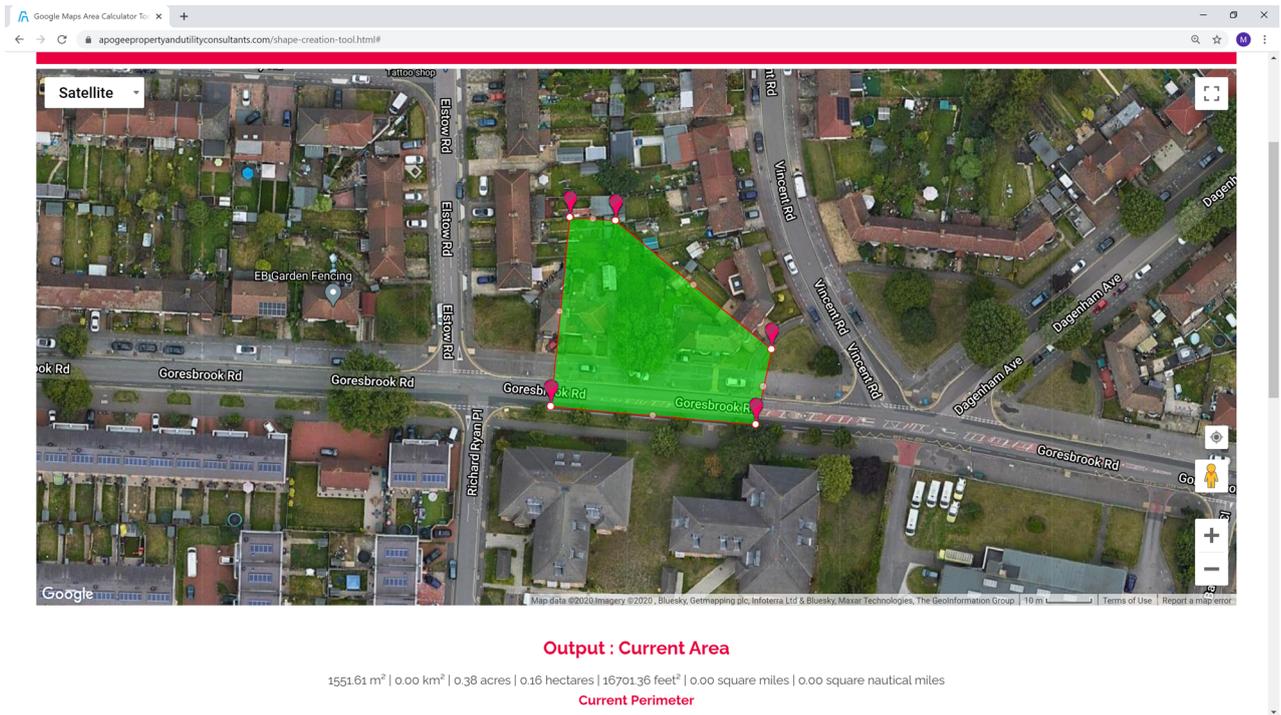
## C2 Stats Plans Responses Summary

Apogee Job Number: 421491  
 Client Site Name: Goresbrook Road  
 Percentage Complete: 100%

Client Job Number: 166/20

Utility Name	Utility Type	Affected	Not Affected	No Response Received	Comments
UKPN	Electric	04/09/2020			
Utility Assets	Electric		21/09/2020		
Cadent	Gas	04/09/2020			
ESP	Multi		04/08/2020		Near To Site
Engie	Multi		04/09/2020		
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		
GTT	Telecoms	04/09/2020			
Instalcom KPN	Telecoms	10/09/2020			
Kcom	Telecoms		04/09/2020		
Sky	Telecoms	04/09/2020			
Sota	Telecoms		10/09/2020		
SSE	Telecoms	04/09/2020			
Telent	Telecoms		14/09/2020		
Verizon	Telecoms	07/09/2020			
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:	421491
Approved by:	Jeremy Haigh
Date of First Issue:	18/09/2020
Signature:	

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

Our Ref: 19839101      Your Ref: 421491

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**

UK  
Power  
Networks



# 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](mailto: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](http://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](http://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](http://www.ukpowernetworks.co.uk)

If you are unsure of your network operator then please  
visit [www.energynetworks.org](http://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

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Page no:	Contents:
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19	Abbreviations used in cross sections.
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(ii)

## 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

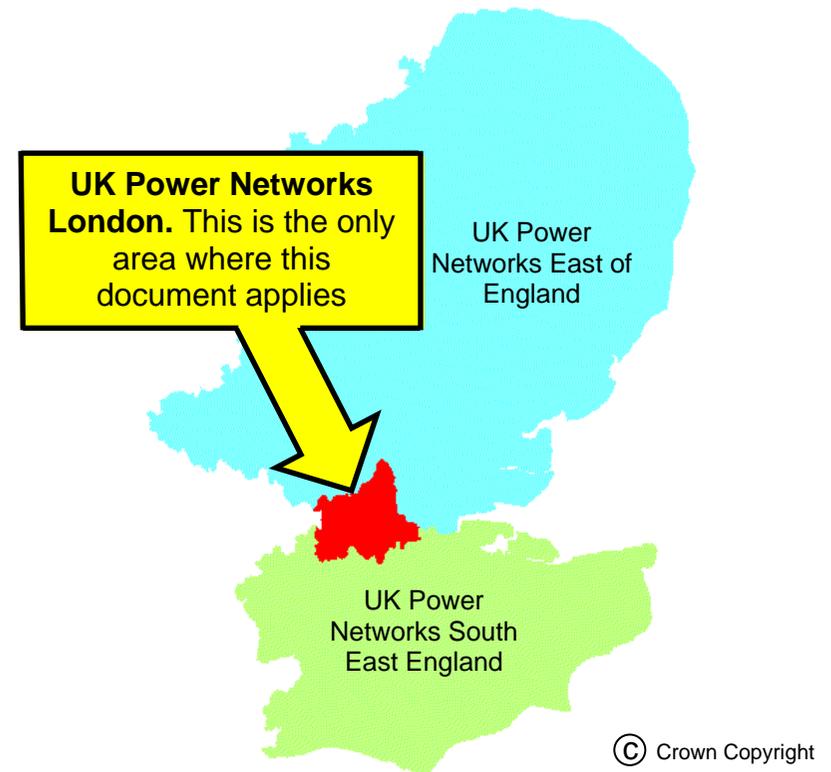
**Tel: 08000 565866.**

- 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.

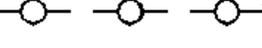


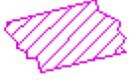
**Plan Provision Team  
Fore Hamlet  
Ipswich  
Suffolk IP3 8AA  
Tel: 08000 565866**

## The area covered by this guide:



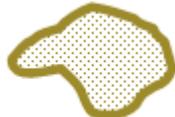
Please see the anomalies map at the end of this safety booklet for greater map area detail, and a breakdown of the more significant anomalies within the London area.

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
		
		UK Power Networks or Electrical boundary
		

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 <a href="http://www.linewatch.co.uk">www.linewatch.co.uk</a> 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**

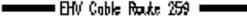
NetMAP system	Scanned image	Description
	Not applicable	Historical - Scheduled Monuments (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Historical - Parks and Gardens (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Historical - 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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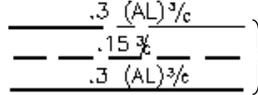
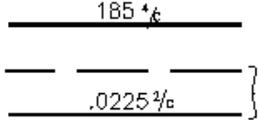
**Scenery for UK Power Networks use only - boxed in red**

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)         	 $.3 (AL) \%$ $.15 \%$ $.3 (AL) \%$   $185 \%$ $.0225 \%$  Not applicable  Not applicable  Not applicable  Not applicable	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	$\frac{c}{c}$	Concentric cores
t/c	$\frac{T}{c}$ or $T/cc$	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	$\frac{s}{c}$	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
<u>0.3 4c AL PLSWS</u> (Details also in cable attributes and/or section)		Cable size (and year laid)
		Cable capped end
		Pressure/pot end & earth cable/electrode
		Earth rod (horizontal)
		Earth plate or end
		Straight joints
		Tee joints
		Double crutch (or spur) joint
		Sleeve

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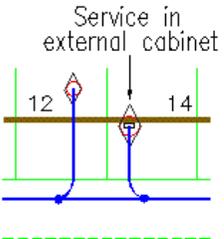
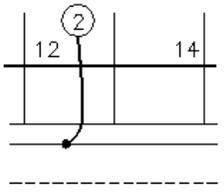
### Other NetMAP symbols

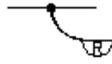
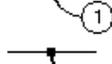
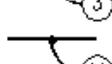
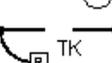
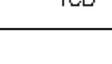
NetMAP system	Scanned image	Description
		Four way underground disconnecting boxes(DB)
		Link boxes(LB)
		Network boxes(NB) or (NWB)
		4 way 6 entry
		6 way box
		6 way 8 entry
		Split bus-bar
		Link box with identification number
		3 way underground disconnecting boxes
		2 way underground disconnecting 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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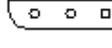
### Other NetMAP symbols

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
SRC = Service Record Card		
To a property/metered supply (also see SRC)		
<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>Also see SRC</p> <ul style="list-style-type: none"> <li>Ⓜ Single phase service</li> <li>① Connected to 1 core &amp; neutral</li> <li>Ⓡ Connected to red core &amp; neutral</li> <li>⊕ Three phase service</li> <li>⊕ Connected to inner &amp; outer cores of triple conc cable</li> <li>⊖ Connected to middle &amp; outer cores of triple conc cable</li> <li>⊕ Connected to all three cores of triple conc cable</li> </ul> 	<p>Existence of a service with its core connection shown in circle</p>
<b>section continued on next page</b>		

Services		
NetMAP system	Scanned image	Description
To street furniture/un-metered supply (also see SRC)		
<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>P.L.S.261 Public lighting</p>  <p>S.L.261 Street lighting</p>  <p>WB Wall bracket</p>  <p>TL Traffic light control</p>  <p>FB Flashing beacon</p>  <p>TS Traffic sign</p>  <p>B IGP Bollard/illuminated guard post</p>  <p>TK,TC TK,TC TCB FP 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

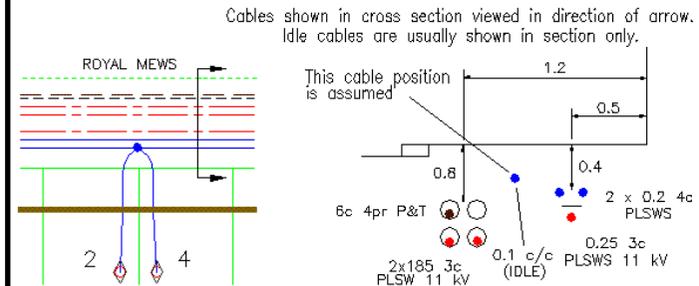
## Abbreviations used in cross sections

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

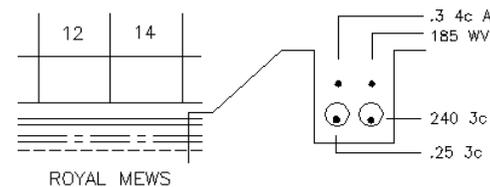


Applies to all composite vector records in both shaded and unshaded areas of the anomalies map.

### 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.

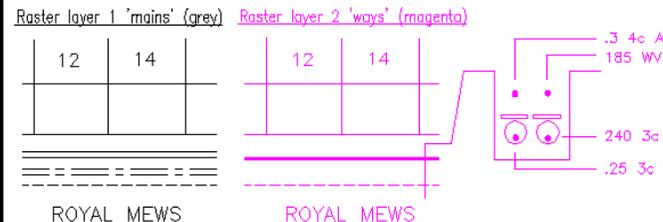


Applies to all composite raster records within the unshaded areas of the anomalies map.  
Can also be found in some shaded areas – in particular the ex-North Eastern shaded areas 3 (b) and 3 (c)

### 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.

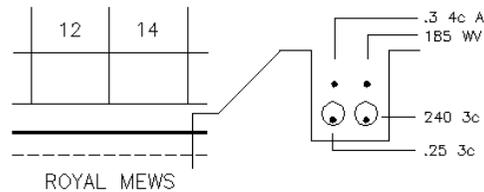
## Typical plan and cross section representations

### Single line representation - raster or vector data

The City of London only

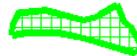
All cables are shown as a single line in plan.  
Sections may be written and not drawn.

OR this style may be used.



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

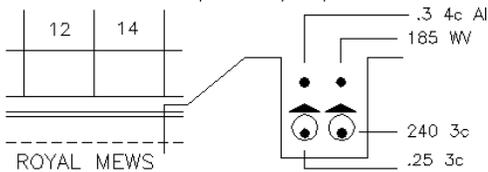
Applies to area 2(b)  
on the anomalies map.



### 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.

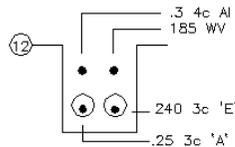
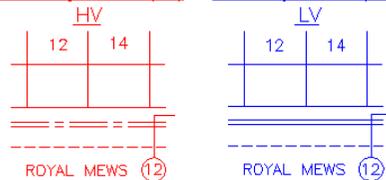


### HV and LV map representation – dual layer raster

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.

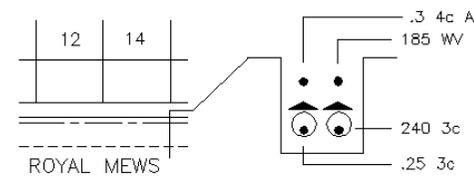


## Typical plan and cross section representations

### 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.



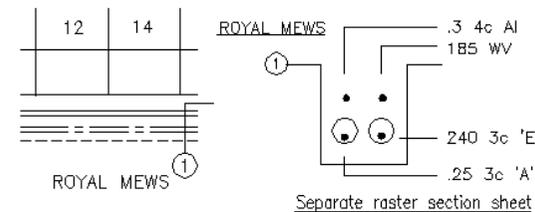
Applies to area 3 (b)  
of the anomalies map.



### 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.



Separate raster section sheet

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.



## 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:

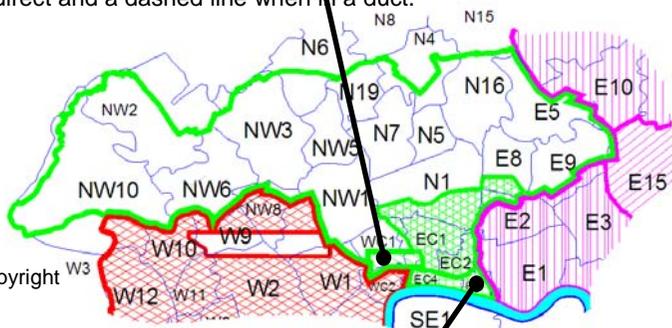
This system consists of two maps layers for the same area.

- 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.



### 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.

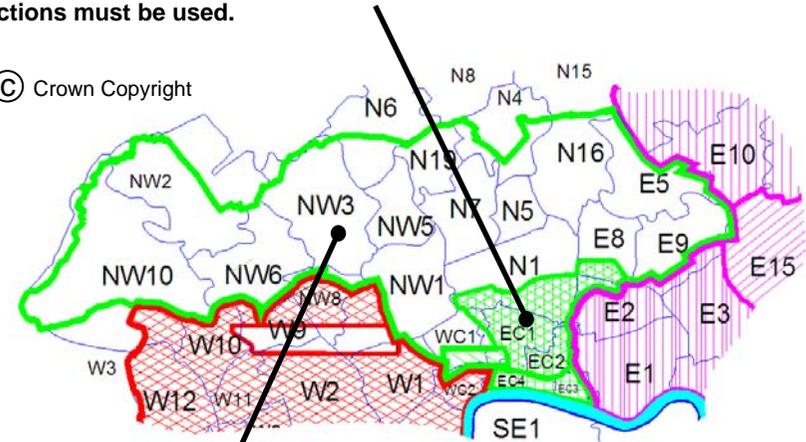
### Region 2(c) (hatched )

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 )

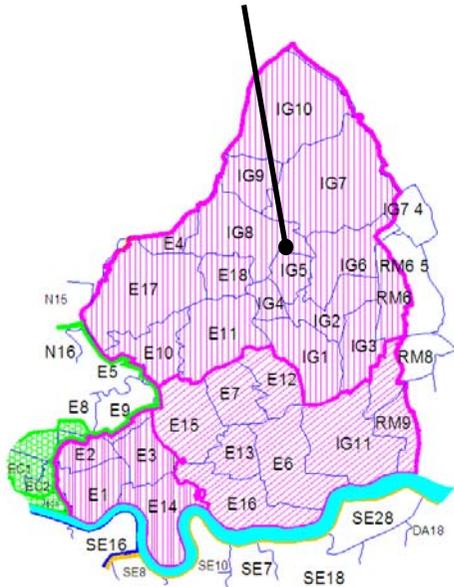
#### Separate HV and LV representation maps:

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

- i) The HV map layer showing HV cables and duct routes.
- ii) 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.

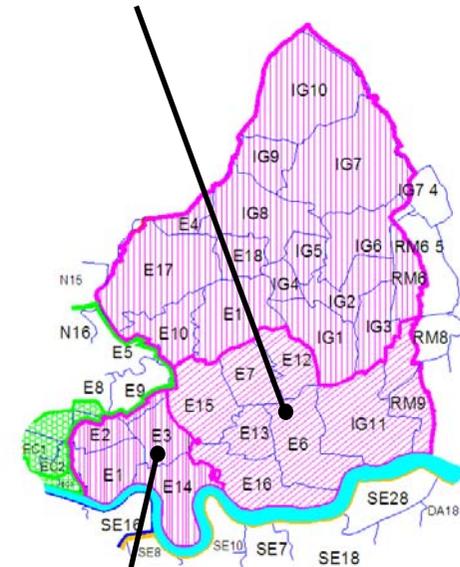
**It is important that all these maps are read in conjunction with each other.**



### 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.



### 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).

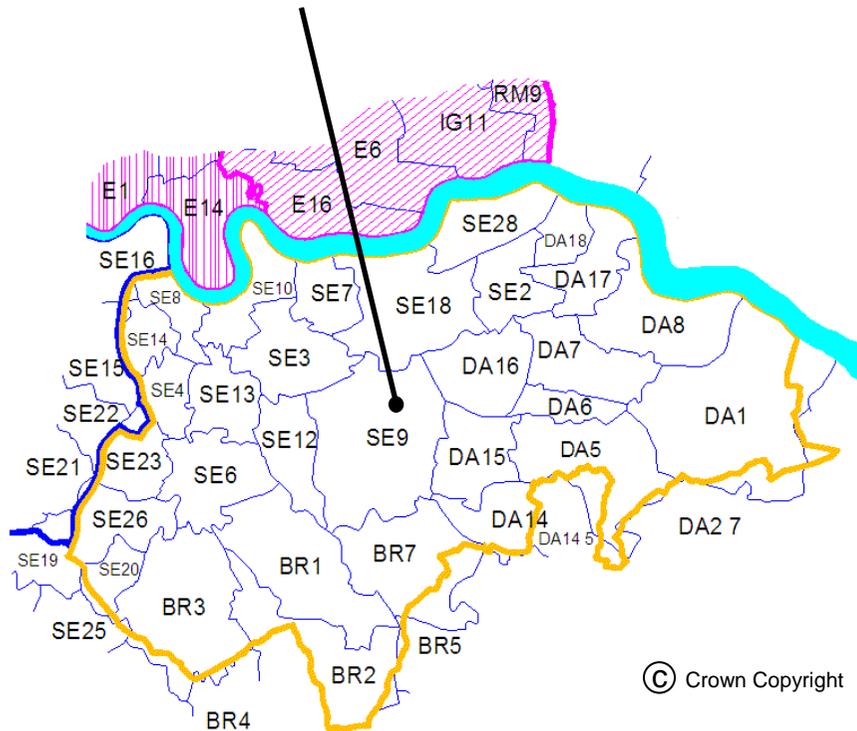
## Region 4 ex-South Eastern area

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.



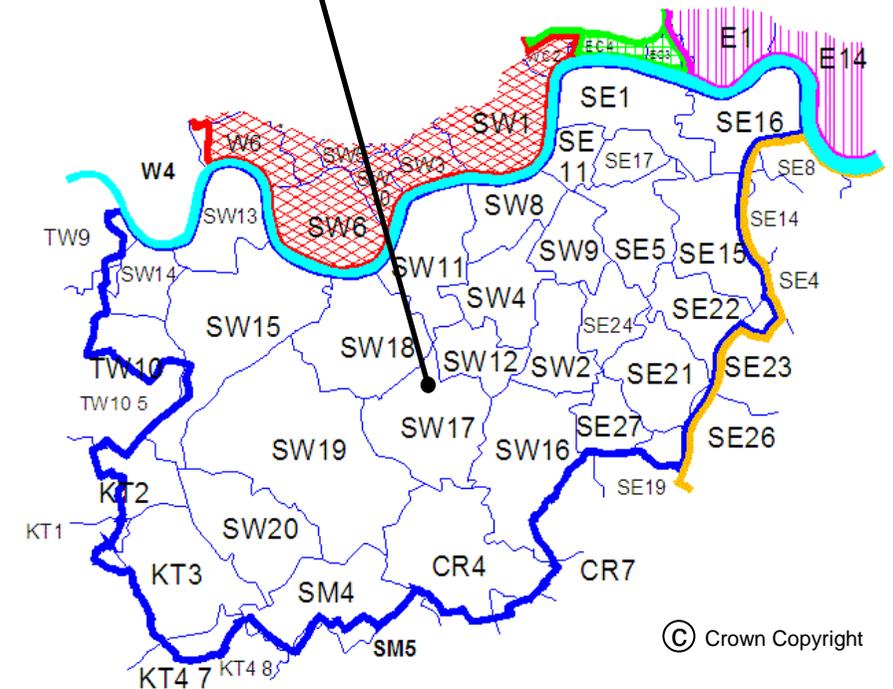
## Region 5 ex-Southern area

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.





# Network Records NetMAP Symbols Booklet - East of England

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	<u>1:500 view</u>
4	Scenery.
7	Scenery (UK Power Networks use only).
8	Primary distribution cables (EHV).
9	Secondary distribution cables (HV/LV).
10	Service cables/terminations.
11	Cable ducts.
13	EHV/HV/LV sites.
14	Mains joints.
15	Service joints.
17	Cross sections.
17	Common abbreviations/terminology (all views).
19	<u>1:2500 (LV) &amp; 1:10000 (HV) network views (UK Power Networks use only).</u>
20	General.
22	1:2500 scale LV network.
22	1:10000 scale HV network.
23	<u>LV network diagram view (UK Power Networks use only).</u>
24	Overhead lines.
25	Underground cables.
25	Joints.
26	Substations/pole transformers.

## Guidance notes.

### **Important notice:**

If you do not understand the NetMAP record that you are using, please contact the UK Power Networks Network Records team for guidance  
**Tel: 08000 565866.**

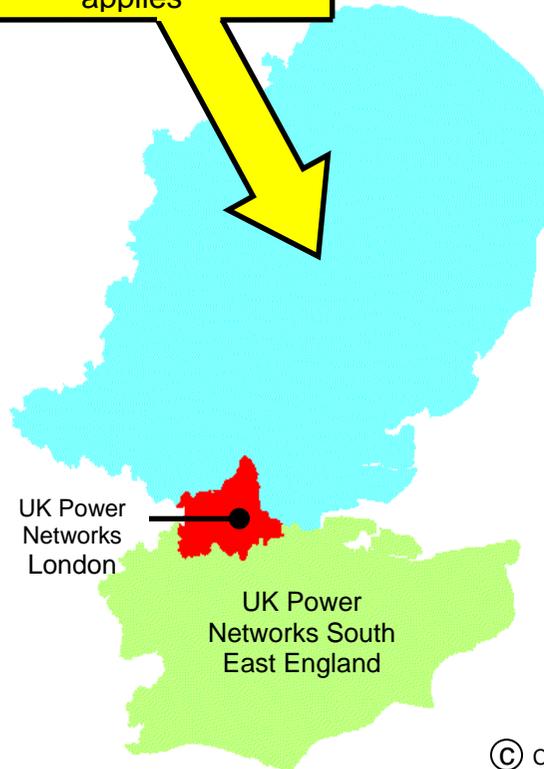
- The position of apparatus shown on NetMAP is believed to be correct, but the original landmarks may have altered since the apparatus was installed.
- It must be assumed that there is at least one service to each property, lamp column, street sign etc.
- All cables must be treated as live, unless proven otherwise by an authorised UK Power Networks representative.
- Third party cables are not usually shown. In cases of doubt, please telephone 08000 565866.
- 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 document.
- All LV cables are assumed to be 4 core, and all HV cables assumed to be 3 core unless otherwise stated.



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

## The area covered by this guide:

**UK Power Networks  
East of England.**  
This is the only area  
where this document  
applies



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# 1:500 view - underground network

## 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
		Electrical Boundary

# Scenery - for UK Power Networks use only - boxed in red

NetMAP system	Scanned image	Description
 Inset Network – Contact xxx 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 UK Power Networks and their immediate contractors)
	Not applicable	High pressure pipelines in the general vicinity (only visible to UK Power Networks and their immediate contractors)
<p>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 <a href="http://www.linewatch.co.uk">www.linewatch.co.uk</a> for contacts and guidance. Pipeline contact numbers can also be found on the intranet – out of hours, contact our Control Centre.</p>		
	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)

section continued on next page

**Scenery for UK Power Networks use only - boxed in red**

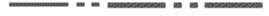
NetMAP system	Scanned image	Description
	Not applicable	Historical - Scheduled Monuments (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Historical - Parks and Gardens (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Historical - Areas of Archaeological Potential (AAP) (only visible to E 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 to UK Power Networks and their immediate contractors)
		Nature - Site of Special and Scientific Interest (SSSI) (only visible to UK Power Networks and their immediate contractors)

section continued on next page

**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 (1:500 view)

NetMAP system	Scanned image	Description
		Over 33kV and up to 132kV
		Over 11kV and up to 33kV

### Secondary distribution cables (1:500 view)

NetMAP system	Scanned image	Description
		Over 230/400V and up to 11kV (HV) cable route
		230/400V (LV) cable route
		Pilot cable route
<small>(Only shown this way if independent from HV cable route)</small>		
Abandoned cables are shown and labelled as such when applicable		

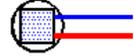
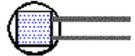
### Service cables and terminations (1:500 view)

NetMAP system	Scanned image	Description
		<p>3 phase service with termination</p> <p>3 phase service with termination (unknown route)</p> <p>3 phase service with multi-head termination</p> <p>Single phase service with termination</p> <p>Single phase service with termination (route unknown)</p> <p>Street lighting cable and termination</p>
<p>Service routes were not always shown on MMS – they were however shown dashed, as indicated above</p>		

### Cable ducts (1:500 view)

NetMAP system	Scanned image	Description
		<p>Empty duct</p> <p>Cable(s) in duct(s)</p> <p>Cable(s) in duct(s) (on some raster maps)</p> <p>Multiple cables in ducts</p> <p>Multiple cables in ducts (on some raster maps)</p>

### EHV, HV and LV sites (1:500 view)

NetMAP system	Scanned image	Description
<p>COLCHESTER GRID</p> 	<p>COLCHESTER GRID</p> 	Primary substation
<p>HIGH STREET</p> 	<p>HIGH STREET</p>  <p>HIGH STREET</p> 	Secondary substation
		Pad mounted substation
		Link box - 2 way
		Link box - 4 way (6 way etc shown similarly)
		Feeder pillar - 4 way (6 way etc shown similarly)
<p>CHURCH RD</p> 	<p>CHURCH RD</p> 	Pole transformer
		Poles on underground records
		
		H pole, any voltage
		Service turret (solid type)

section continued on next page

### EHV, HV and LV sites continued (1:500 view)

NetMAP system	Scanned image	Description
<p>No NetMAP equivalent</p>  <p>CAUTION Missing Information</p>		Service turret (with link facility on LV main)
<p>Contaminated Land refer to SHE 01 016</p> 	<p>No equivalent</p>	Missing data in or near this location
	<p>Not applicable</p>	Contaminated land reference

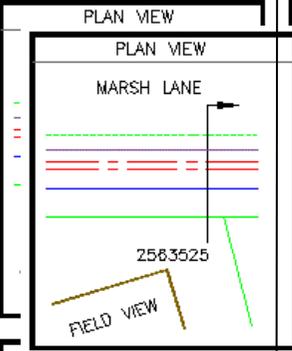
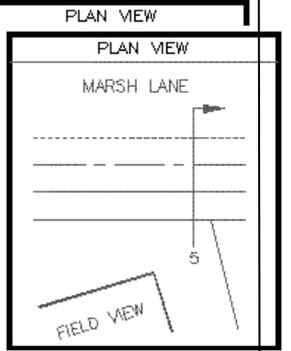
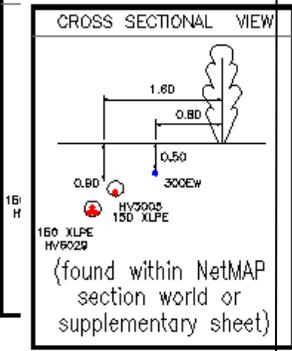
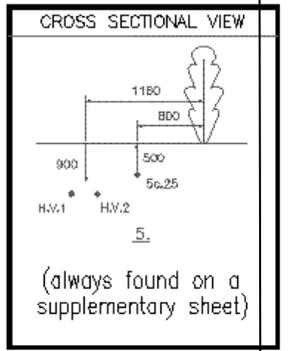
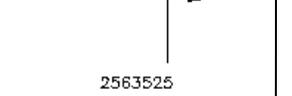
### Mains joints (1:500 view)

NetMAP system	Scanned image	Description
(voltage indicated by colour/line-style)		
		Straight joint
		Crutch joint
		Straight crutch joint
		Pot end
		Pot end – an one of several cables – single line representation
		Branch joint/pot end – (humpty back joint, back to back joint, bull nose joint or stub joint)
		Sleeve repair or repair joint
		Cut end
		Capped end
		Tee joint
	NetMAP/vector only	Sicame joint box

### Service joints (1:500 view)

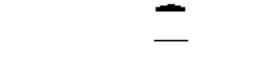
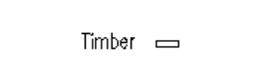
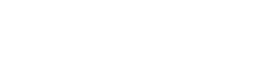
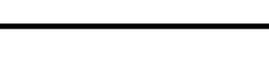
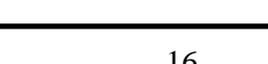
NetMAP system	Scanned image	Description
Please note that 3 phase services are shown blue, and single phase services are shown brown		
		Straight joint
		Service joint to main
		Pot end

### Cross sections (1:500 view)

NetMAP system	Scanned image	Description
		<p>Single line representational plan view with NetMAP equivalent (please note the use of separate line for each voltage on the raster/MMS data)</p>
 <p>(found within NetMAP section world or supplementary sheet)</p>	 <p>(always found on a supplementary sheet)</p>	<p>Cross sectional view of above</p>
		<p>Section arrow with old/new numbering system – points in direction section is viewed</p>
<ul style="list-style-type: none"> <li><span style="color: blue;">●</span> 185Ew</li> <li><span style="color: red;">●</span> 35Ec</li> <li><span style="color: red;">●</span> HV3005</li> </ul>	<ul style="list-style-type: none"> <li><span style="color: grey;">●</span> 185Ew</li> <li><span style="color: grey;">●</span> 35Ec</li> <li><span style="color: grey;">●</span> HV3005</li> </ul>	<p>LV/3 phase service cable</p> <p>Single phase service cable with size annotation</p> <p>HV cable – 3 core with route number annotation</p>

section continued on next page

### Cross sections continued (1:500 view)

NetMAP system	Scanned image	Description
		<p>HV cable – modern EPR, Plam and Triplex with route number annotation</p>
		<p>Pilot cable</p>
		<p>33kV cable</p>
		<p>132kV cable</p>
		<p>Single duct</p>
		<p>6 way duct formation – irrespective of duct type and material, all are displayed similarly</p>
		<p>Protective slab</p>
		<p>Tiles</p>
		<p>Concrete slabs</p>
		<p>33kV fibre warning board</p>
		<p>Steel plate</p>
		<p>Plastic tile tape</p>
		<p>Timber</p>

## Common abbreviations and terminology (all views)

Abbrev.	Description	Abbrev.	Description
1c	Single core	Cut out or C/O	Meter/main fuse position
1ph	Single phase	cx	Triplex (copper)
2c	Two core	DE	Direct earth
3c	Three core	DSTA	Double steel tape armoured
3ph	Three phase	Ea	Alpex cable
ABC	Aerial bunched (bundled) conductor (modern LV overhead line)	EFI	Earth fault passage indicator
ABI	Air break isolator (no fuses)	EHV	Extra high voltage (11,001 Volts and over)
ABSD	Air break switch disconnect	ELCB	Earth leakage circuit breaker
ACCS	Aluminium concentric copper sheathed	ELT	Earth leakage trip
Al	Aluminium	EPR	Ethylene propylene rubber
AR	Auto recloser	Ew	Waveform cable
ASL	Automatic sectionalising links	E/W	Earthenware duct or earth wire
ax	Triplex (aluminium) 2 x 22mm AL PVC (example) Duplex 3 x 22mm AL PVC (example) Triplex	Fdr or Feeder	LV or HV cable fed by or feeding a substation
CB	Circuit breaker	F/G	Fuse gear
c/c	Concentric cores	F/P	Feeder pillar
ccc	Compact covered conductor	GRP	Fibreglass substation
CCT	Circuit	GVR	Gas vacuum recloser or pole mounted circuit breaker
CNE	Combined neutral and earth	HV	High voltage (1,001 – 11,000 Volts incl)
Cross phased	The core colour may be different to originating transformer phasing	HYBRID	Modern plastic cable with mixed conductor material (Al/Cu)
CS	Consac	Insulation	Electrically protective material surrounding a conductor
CSE	Cable sheath earth	Insulator	Porcelain or glass overhead line support (on poles)
Cu	Copper	<b>ITC</b>	Instrument traced cable or ITC - cable traced electronically using Cable Avoidance Tool (CAT) or similar

section continued on next page

## Common abbreviations and terminology continued (all views)

Abbrev.	Description	Abbrev.	Description
Jumper	Connecting lead between open points, section points and overhead plant	PICAS	Paper insulated corrugated aluminium sheath armoured
kV	Kilovolt (or 1,000 Volts) – unit of electrical pressure	PILC	Paper insulated lead covered
kW	Kilowatt (1,000 Watts) – unit of electrical power	PILSTA	Paper insulated lead covered steel tape armoured cable
kVA	Kilovolt Amps or power	PL	Plain lead or public lighting
Link box or LB	Means of connecting LV feeders together using links or fuses	PME	Protected multiple earth or CNE
LSF	Low smoke & fume	PMT	Pole mounted transformer
LV	Low voltage (up to 1,000 Volts incl)	PMR	Pole mounted recloser (generic term for OYT/GVR)
LV Pillar	Low voltage fuse distribution board	PT	Pole transformer
Neutral	Return path of live cable	PVC	Polyvinyl chloride
O/H or OHL	Overhead line	RMU	Ring main unit
OYS	Oil filled pole mounted sectionaliser	RN	Reduced neutral
OYT	Oil filled pole mounted recloser	s/c	Split concentric or single core
PC400	Pole mounted LV fuse unit	S/L	Street light
PE	Pot end or potential end – joint on cable end	S/S	Substation
Phase	Usually the core colour of a cable (caution – may be cross phased) – Red, Yellow, Blue on old cables, or L1, L2, L3 on new cables, for example	STA	Steel tape armoured
		SWA	Steel wire armoured
		T1 or T2 etc	Substation TX setup where more than one TX exists
		T/F or TX	Transformer
		Volts	Unit of electrical pressure
		Watts	Unit of electrical power
		XLPE	Cross linked polyethylene

# 1:2500 & 1:10000 view - overhead networks - for UK Power Networks use only - boxed in red

## General

NetMAP system	Scanned image	Description
•• •	•• •	H pole Pole

## 1:2500 scale LV network

NetMAP system	Scanned image	Description
No NetMAP equivalent	-----	132kV cable route
No NetMAP equivalent	-----	33/22kV cable route
No NetMAP equivalent	-----	11kV underground cable
		132kV overhead line
		33kV overhead line dots mark pole position
		11kV overhead line - dots mark pole position
		Dual construction - dots mark pole position
		LV overhead line - dots mark pole position
No NetMAP equivalent		LV underground cable
		Pole and stay
		Pole and strut
		Voltage regulator
		Static balancer
		Example of struts and stays
		Flying stay
		Earthed pole in PME system
261	261	Pole number
		Ground type substation
S.P.	S.P.	Section pole
S.L.	S.L.	Street light

section continued on next page

### 1:2500 scale LV network continued

NetMAP system	Scanned image	Description
O.R. Stay	O.R. Stay	Outrigger stay
Ext. Brkt	Ext. Brkt	Extension bracket
P. Box	P. Box	Pole box
N.E.	N.E.	Neutral and earth
O.R. Brkt	O.R. Brkt	Outrigger bracket

### 1:10000 scale HV network

NetMAP system	Scanned image	Description
		132kV overhead line
		33kV overhead line dots mark pole position
		11kV overhead line – dots mark pole position
		11kV overhead line – dual circuit – dots mark pole position
		11kV underground cable and EHV
		Pylon HV or EHV
		Grid line tower
		Stay
		Ground type substation
		Pole type transformer
		Live line taps
		Switchgear – all types
		Fuse gear
		Auto recloser – live line connected

The above circular substation/switchgear symbols may be found that contain different combinations of apparatus (see last example)

## LV network diagram view-for UK Power Networks use only-boxed in red

### Overhead lines

NetMAP system	Description
- - - - -	Unknown
- - - - -	Al
- - - - -	Cu
- - - - -	ABC
—	Pole link

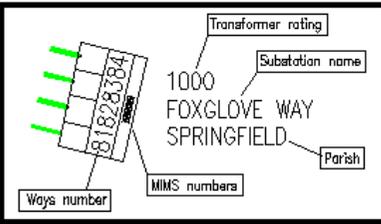
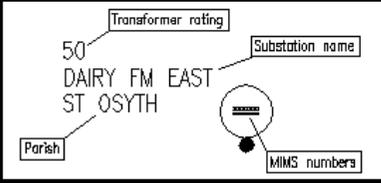
### Underground cables (LV network diagram view)

NetMAP system	Description
—	Unknown
—	Al
—	Cu
—	CC
—	TCC
—	Ea
—	Ec
—	Ecx
—	Ew
—	LSF
—	Other

## Joints (LV network diagram view)

NetMAP system	Description
	Pot end or Sicame Box
	Straight joint
	Crutch joint
	3 phase termination

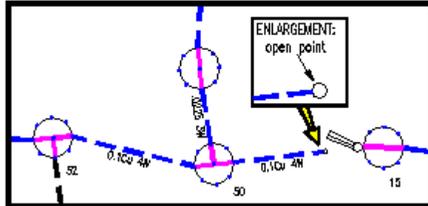
## Substations/pole transformers (LV network diagram view)

NetMAP system	Description
<p>There are many substation combinations – these are merely a sample of configurations that can be found.</p>	
	2 way substation
	4 way substation
	4 way twin busbar substation
	10 way back to back substation
	Pole transformer (normal)
	Pole transformer 2 way
	Pole transformer 3 way
	Substation with rating, name, Parish and MIMS identifying number
	Pole transformer with rating, name, Parish and MIMS identifying number
	Intermediate pole
	Section pole
	Overhead fuse
<p><b>section continued on next page</b></p>	

## Substations/pole transformers cont'd (LV network diagram view)

NetMAP system

Description



Overview – the purple lines through the section poles are pole links – these indicate how the network is linked together



2 way link box



3 way link box



4 way link box



4 way double busbar link box



4 way BICC link box



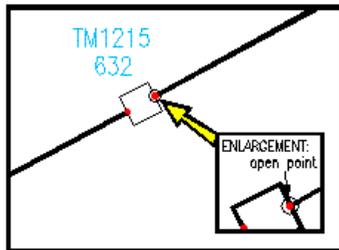
5 way link box



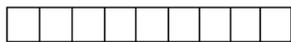
6 way link box



6 way double busbar link box



A two way link box with identification number, connected to a cable with an open point

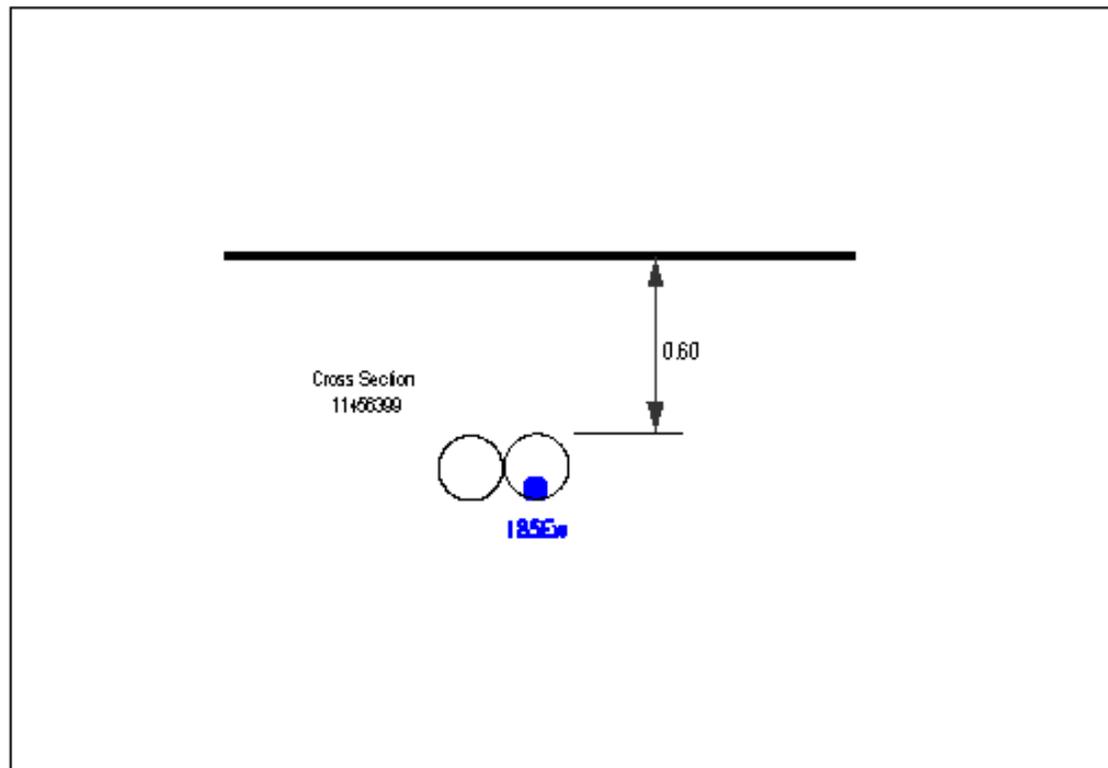


Feeder pillars – these range from 2 ways through to 9 ways – a 9 way and a 2 way are shown as examples





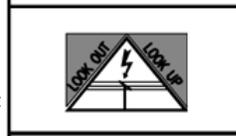
# Cross Section : 11456399



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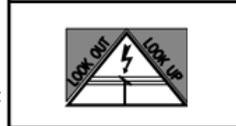
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# See Supplemental Diagram TQ4883NWA for Cross-Section 17 details

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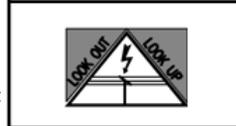
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# See Supplemental Diagram TQ4883NWA for Cross-Section 14 details

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# See Supplemental Diagram TQ4883NWA for Cross-Section 4. details

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# See Supplemental Diagram TQ4883NWA for Cross-Section 21 details

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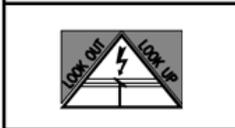
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# See Supplemental Diagram TQ4883NWA for Cross-Section 16 details

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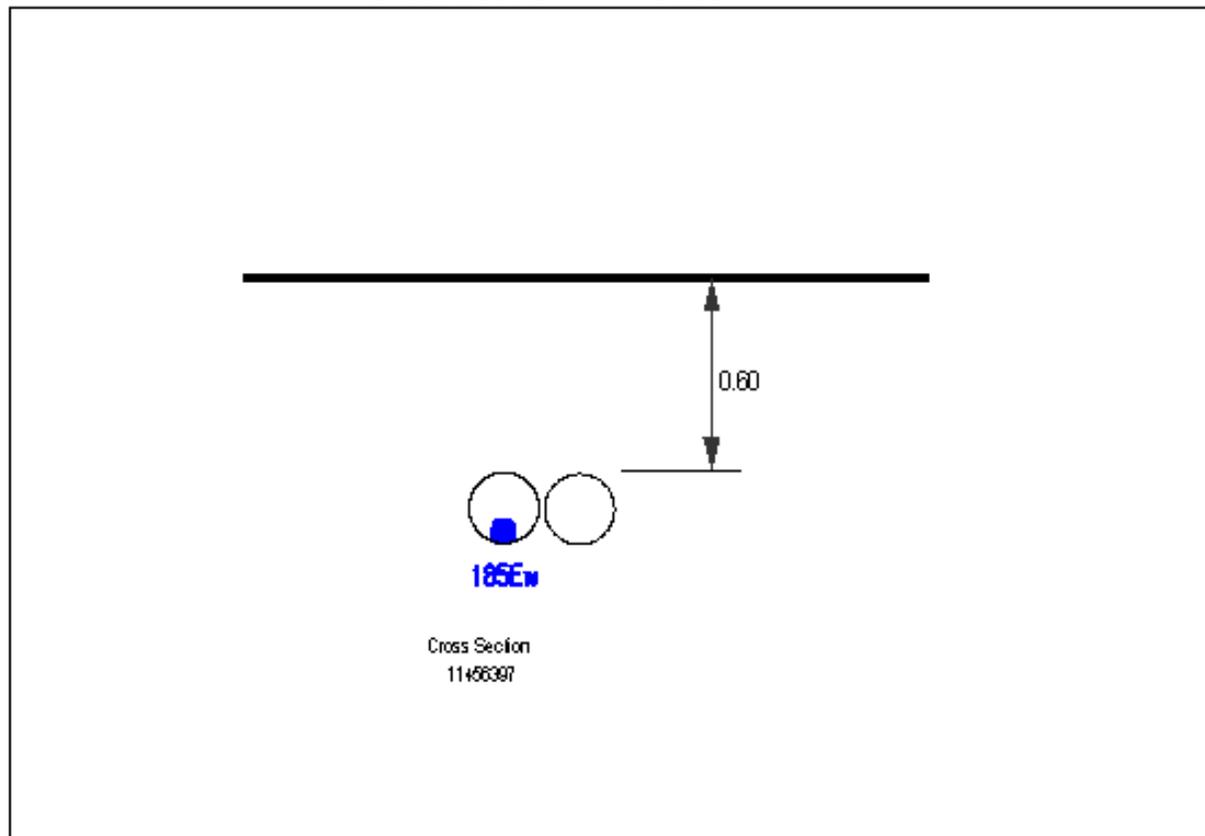
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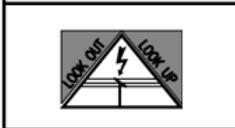
# Cross Section : 11456397



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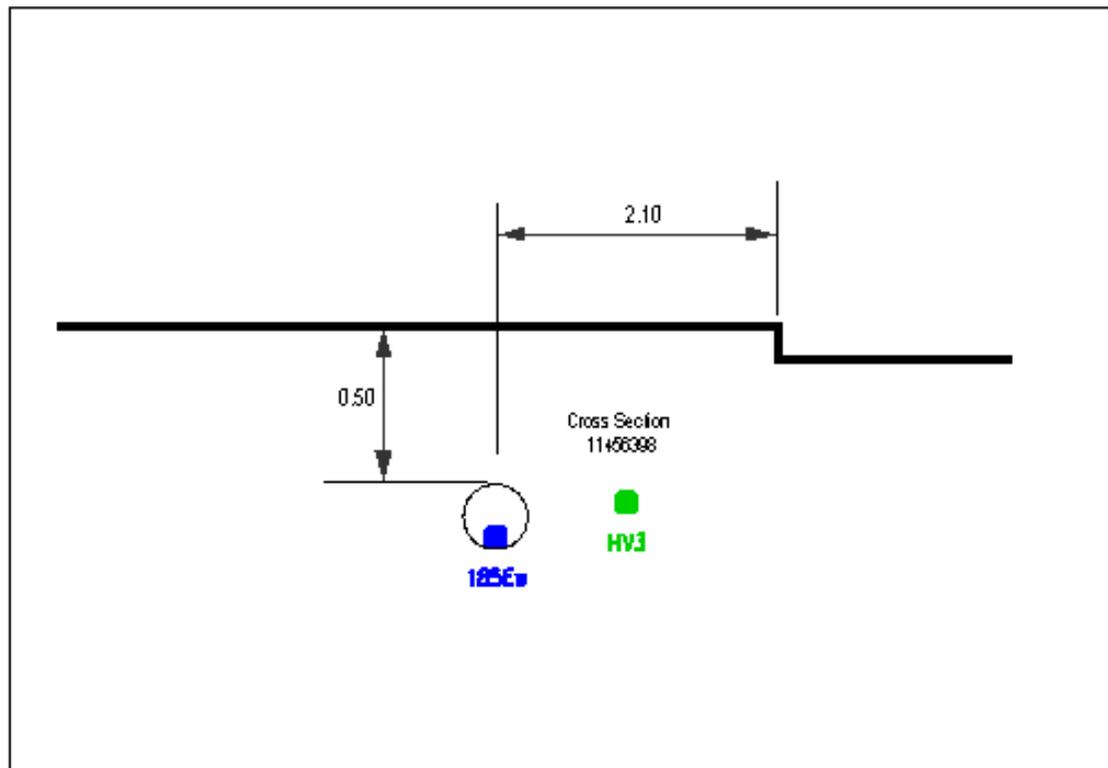
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**URGENTLY**



**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.

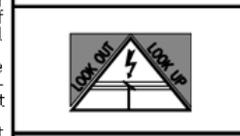
# Cross Section : 11456398



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. If 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.

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.

IF IN DOUBT - ASK! PHONE  
 0800 056 5866  
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**ALWAYS LOOK UP BEFORE  
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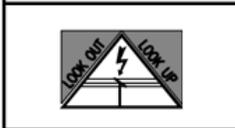
Maps produced at 1:2500 scale are Geo-Schematics which show LV mains cables and overhead lines (in some cases all voltages). Prior to carrying out excavations you must refer to the 1:500 records to determine the location of all known underground plant and equipment.

# See Supplemental Diagram TQ4883NWA for Cross-Section 2048377 details

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**ALWAYS LOOK UP BEFORE  
 YOU START WORK**  
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# See Supplemental Diagram TQ4883NWA for Cross-Section 2048378 details

<p>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. If 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.</p>	<p>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.</p>	<p>IF IN DOUBT - ASK! PHONE                  0800 056 5866  <b>EMERGENCY - If you damage a cable or line</b>                  Phone 0800 783 8838 (24hrs)  <b>URGENTLY</b></p>	
			<p style="text-align: center;">ALWAYS LOOK UP BEFORE YOU START WORK Refer to HSE Guidance note GS6</p>

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# See Supplemental Diagram TQ4883NWA for Cross-Section 2048375 details

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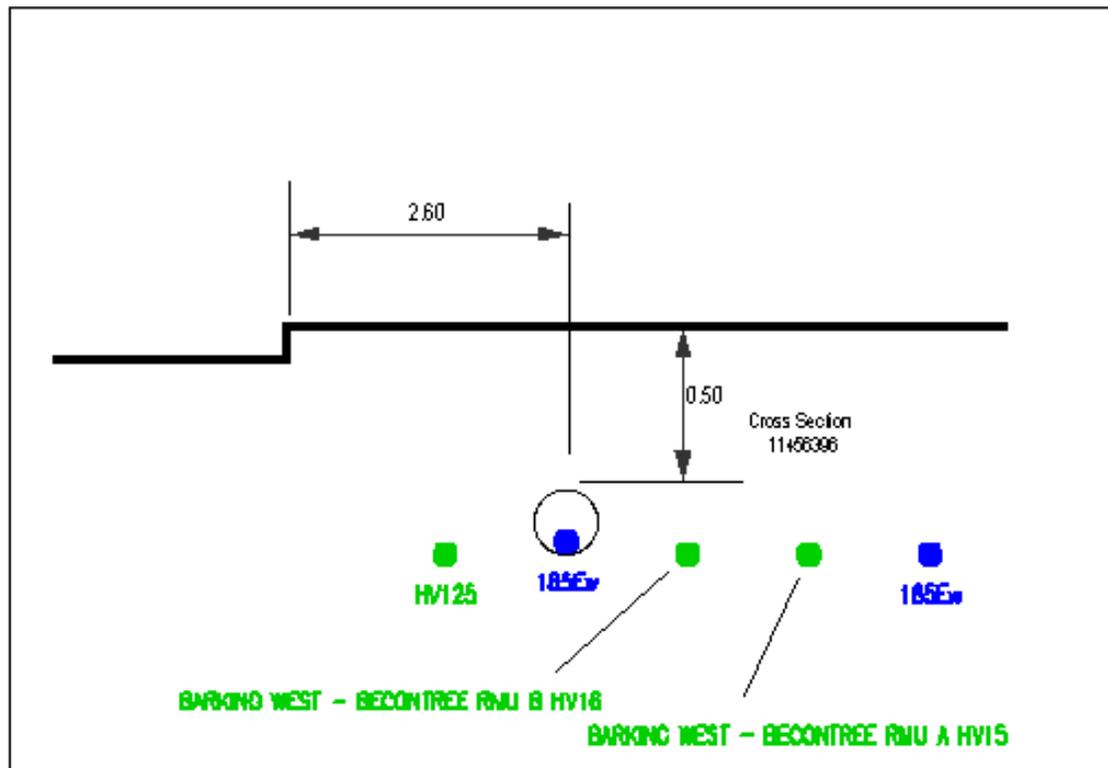
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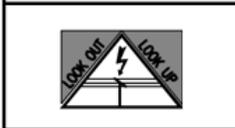
# Cross Section : 11456396



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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.

15/2  
2

10/23

FOR DETAILS OF CABLES  
IN THIS AREA APPLICATION  
SHOULD BE MADE TO  
THAMES SIDE AREA OF  
EASTERN ELECTRICITY plc

FOR DETAILS OF CABLES  
IN THIS AREA APPLICATION  
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15/2

SECTIONS ARE TAKEN ALONG THE LINE OF TRENCH UNLESS OTHERWISE STATED

15/8

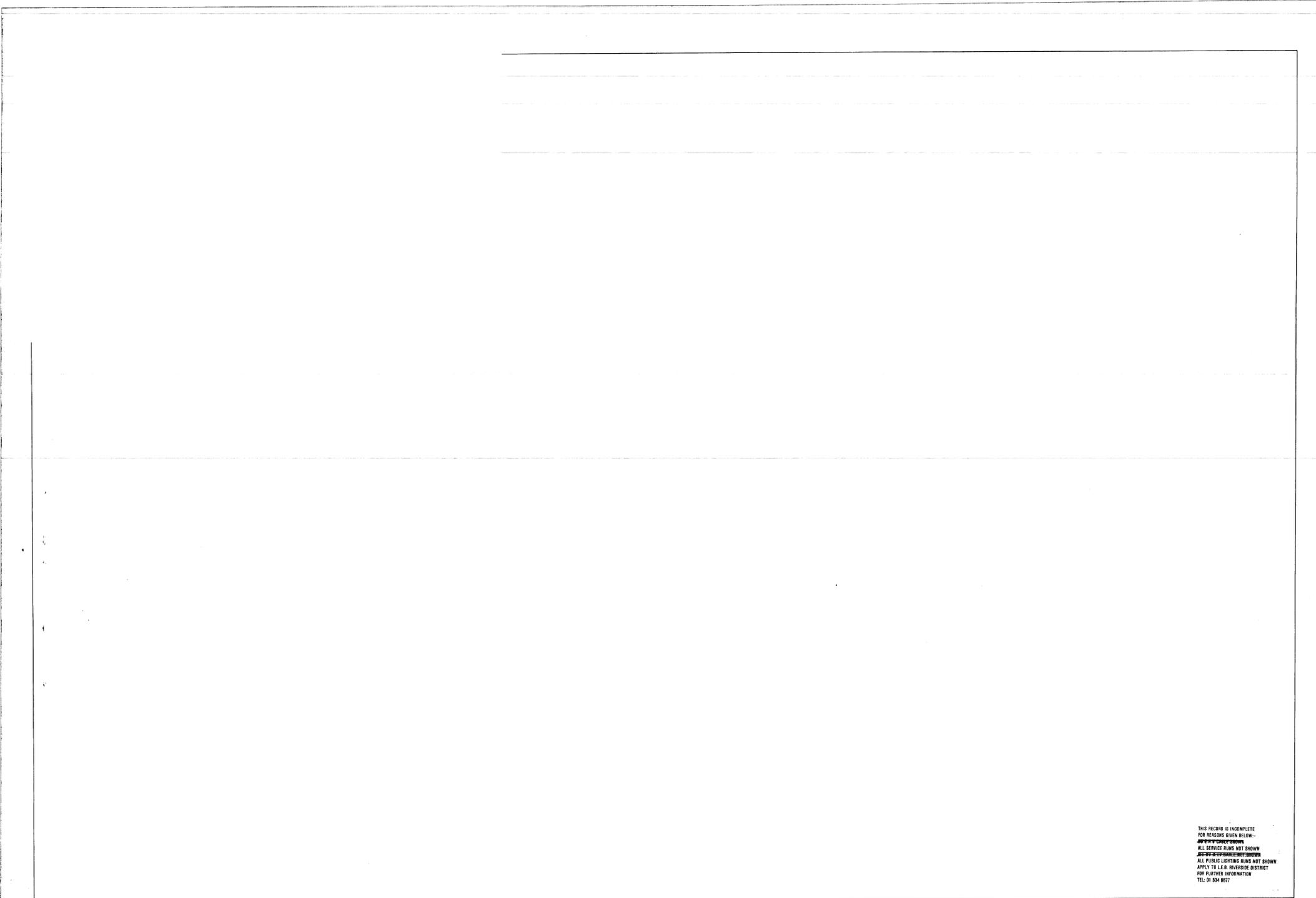
It should be recognised that cable depths shown on this map may be unreliable as the ground level may have changed since the cables were installed and the relative position of cables may also have changed due to the alteration of original landmarks.

THIS RECORD IS INCOMPLETE FOR REASONS GIVEN BELOW:-  
SERVICES SHOWN  
ALL SERVICES RUNS NOT SHOWN  
ALL PUBLIC LIGHTING RUNS NOT SHOWN  
APPLY TO L.E.S. RIVERSIDE DISTRICT FOR FURTHER INFORMATION  
TEL: 01 534 8677

**CAUTION:** ALL SERVICES MAY NOT BE SHOWN  
FOR FURTHER INFORMATION TELEPHONE: 01 534 8677

SCALE 1/500

• 15/3



It should be recognized that utility depths shown on this map may be variable 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.

THIS RECORD IS INCOMPLETE FOR REASONS GIVEN BELOW -  
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SCALE 1/500

• 15/3

It should be recognized that utility depths shown on this map may be variable 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.

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TEL: 01 534 8677

**CAUTION:** ALL SERVICES MAY NOT BE SHOWN.  
FOR FURTHER INFORMATION TELEPHONE: 01 534 8677

• 15/3A



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

**Date:** 04/09/2020  
**Our Ref:** NL\_GE4A\_3SWX\_718209  
**Your Ref:** 421491  
**RE: Proposed Works, Goresbrook Road**

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.**

Plant Protection  
Cadent  
Block 1; Floor 1  
Brick Kiln Street  
Hinckley  
LE10 0NA  
E-mail: [plantprotection@cadentgas.com](mailto: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](http://www.cadentgas.com)

## 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:

- | 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:

- | Carefully read these requirements including the attached guidance documents and maps showing the location of apparatus.
- | 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.
- | 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>
- | 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](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>

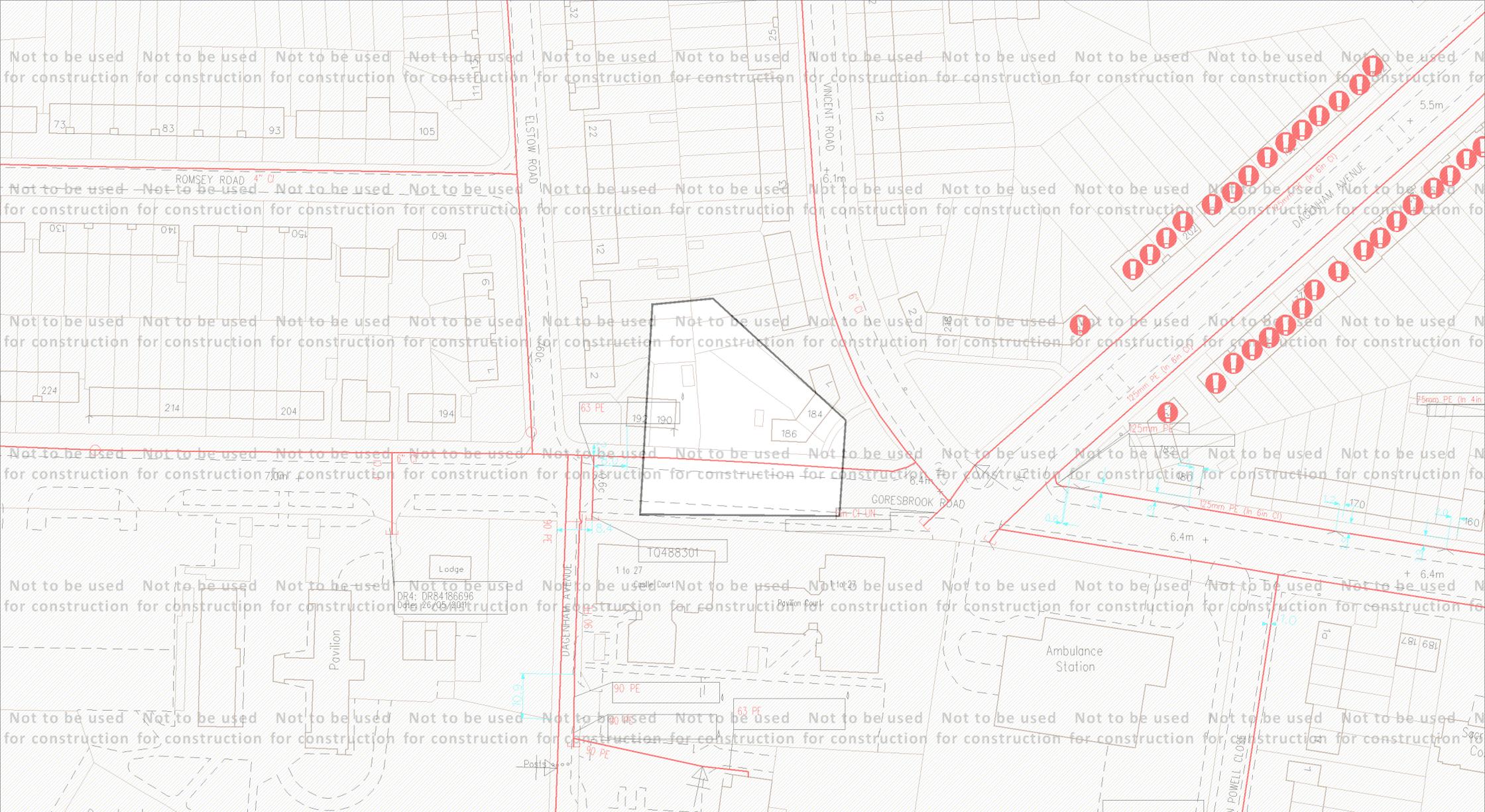
### **Excavating Safely in the vicinity of gas pipes guidance (Credit card):**

<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\_718209  
 USER: max.coetzee  
 DATE: 04/09/2020  
 DATA DATE: 03/09/2020  
 REF: 421491  
 MAP REF: TQ4883  
 CENTRE: 548204, 183866

View extent: 361m, 196m

LP MAINS	
MP MAINS	
IP MAINS	
LHP MAINS	
NHP MAINS	

0m 25m  
 Approximate scale 1:1250  
 on A4 Colour Landscape

**Map not to be used for construction**

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.

Map 1 of 1 (GAS)

MAPS Plot Server Version 1.11.0

**Cadent**  
 Your Gas Network

Requested by: Apogee Utility Consultants

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

Some examples of Plant Items:

Valve	Depth of Cover	Syphon	Diameter Change	Material Change	Out of Standard Service

# ENQUIRY SUMMARY

## Received Date

04/09/2020

## Your Reference

421491

## Location

Centre Point: 548204, 183866

X Extent: 50

Y Extent: 53

Postcode: RM9 6XS

Location Description: Goresbrook Road

## Map Options

Paper Size: A4

Orientation: LANDSCAPE

Requested Scale: 500

Actual Scale: 1:1250 (GAS)

Real World Extents: 361m x 196m (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

**From:** [plantenquiryservice@gtc-uk.co.uk](mailto:plantenquiryservice@gtc-uk.co.uk)  
**To:** [Max Coetzee](#)  
**Subject:** GTC Plant Enquiry - Ref- 1483611  
**Date:** 04 September 2020 15:50:51  
**Attachments:** [1483611.png](#)  
[GU-DPR-IG-0022 Safe working in the vicinity of utility networks.pdf](#)

---

## **Warning: GTC Apparatus Exists in This Area**

**Our Plant Enquiry Service Ref: 1483611**  
**Your Enquiry Ref: 421491**

Dear Max,

Thank you for your enquiry concerning apparatus in the vicinity of your proposed work. For your records, the search area is shown in the attached map.

Please click on the links below to download copies of the relevant utility asset drawings locating our assets in the area which you identified. These drawings are grouped by our relevant network reference, should you need to contact us regarding any of our networks please quote this reference. Links to files will remain live for 10 days. If you do not download these files within this period you will need to submit a new enquiry – this will ensure you have an up-to-date copy of our asset records.

**PLEASE NOTE:** Where drawings are large, these have been provided in smaller segments. A drawing index is provided as the first file listed for each network reference (example of a network reference: N1234567) shown below. This is intended to help you find the drawing relevant to you more quickly. Please take care to ensure that you use the relevant drawings for every network listed below as we may have multiple networks and multiple utilities in this area.

### **N0009073**

#### **Gas**

- [N0009073-1\\_1\\_of\\_1.png](#)

This information is for guidance only and the precise position of the plant must be established, prior to your works, using hand-digging methods only. The contractor will be held responsible for any damage caused to our asset. 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.

All works in the vicinity of our networks should be undertaken in accordance with the attached document "GU-DPR-IG-0022: Safe working in the vicinity of utility networks". Reference should also be made to HSG47 Avoiding Danger from Underground Services.

**Important: The area of your proposed works may contain gas mains operating at Medium and Intermediate Pressure tiers or electric cables operating at High Voltage – please refer to the network drawings included with this email. If your proposed works are likely to involve excavation within 10 metres of any of these assets, including but not limited to gas governors and electric substations you MUST inform GTC Plant Enquiries by calling 01359 240363 and quoting your Plant Enquiries Service Reference number.**

**Important: Drawings provided by this service may include utility assets not owned or managed by GTC. Conversely our drawings will NOT display assets from all third parties. It is your responsibility to ensure you have requested information from all utility asset owners.**

**Gas Escape or Damage MUST be reported on 0800 111 999. National Grid / DNGT will attend to make safe and repair.**

**Electricity Network Damage MUST be reported to ENC on 0800 032 6990.**

**Water Network Damage MUST be reported to IWNL on 02920 028 711**

**Fibre Network Damage MUST be reported to IFNL on 0845 051 1669**

**Thank you for using the GTC Plant Enquiries Service.**

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

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Thank you

## **SAFE WORKING IN THE VICINITY OF UTILITY NETWORKS**

(Refer to the HSE Guidance Document HSG47)

### **General**

1. It is imperative that all works are carried out in accordance with the guidance provided by the HSE in their document HSG47 "Avoiding Danger from Underground Services", ISBN 0-7176-1744-0. No party should carry out any excavation works or other intrusive works such as piling, blasting or demolition without following the guidance in HSG47.
2. We own gas, electricity, water and fibre apparatus located in the highway, private property and through the countryside. Some plant may be located in land for which a wayleave or easement has been granted & there may be no surface evidence of the presence of apparatus.
3. Ensure that you have obtained detailed plans of existing and proposed gas, electricity water and fibre networks.
4. The position of the networks should be pinpointed as accurately as possible by reference to the plans and by means of a locating device, which has been tested and calibrated within the last twelve months.

Excavation work should be carried out where applicable, and carefully follow recognised safe digging practices. Once a locating device has been used to determine position and route, excavation may proceed; trial holes should be dug using suitable hand tools to confirm the position of buried networks. During excavation the locating device should be reused to check position and route of buried apparatus.

5. Hand-held power tools can damage buried apparatus and should be used with care until the exact position has been determined. They may only be used to break a paved or concrete surface above the network, unless there are any indications that the network is particularly shallow, in such circumstances, accuracy of plant location is determined and excavation initiated adjacent to the apparatus.
6. No manhole, chamber or other structure should be built over, around or under the network. Such structures, other pipes, ducts and cables should be laid to provide a minimum clearance from the network of 300mm or 1.5 times the diameter of the network, whichever is the greater. No work should be carried out if this minimum clearance cannot be met or which results in a reduction of cover or protection over the network, without first consulting GTC.
7. Where an excavation uncovers a network apparatus the backfill should be adequately compacted, particularly beneath the network, to prevent any settlement, which would subsequently damage the network. Backfill material adjacent to the network should be selected fine material or sand, containing no stones, bricks or lumps of concrete etc. and should be suitably compacted to give comparable support and protection to that provided before excavation. No power compaction should take place until 200mm cover of selected fine fill has been suitably compacted by hand tools.

8. If the road construction is close to the top of the network, GTC should be asked about necessary precautions. The road construction depth should not be reduced without permission from the local Highway Authority.
9. Costs incurred by GTC through direct or consequential damage will be recharged.

### **Precautions for Gas Networks**

10. Plans do not always show the presence of gas service pipes (from the gas main to premises) but their existence should be assumed.
11. The depth of cover for gas mains is normally 750mm in carriageways and grass verges and 600mm in footways. The depth of cover for gas services is normally 450mm. Remember these covers are to finished level, you may be working in an area, which will be made up or lowered at a later date.
12. Plastic gas pipes should be located by hand digging before mechanical excavation begins. When the positions and depth of the pipes have been determined, work can proceed.
13. The danger created by damaging a gas pipe with an excavator is much greater than if the damage is done with a hand-held power tool (the opposite is true for work near electricity cables and this is reflected in the different safe digging practices). Gas pipes may have projections such as valve housings, which are not shown on the plans and to allow for this mechanical excavators should not be used within 500mm of a gas pipe.
14. If a gas leak is suspected, the following action should be taken immediately:
  - Remove all people from the immediate vicinity of the escape. If the service connection to a building or the adjacent main has been damaged, warn the occupants to leave the building, and any adjoining building, until it is safe for them to return. It is important to note that a mechanical excavator may not only cause damage/leakage at the point of impact. For example, damage to a service connection outside the building may result in further, unseen damage to the connection inside the building. Gas leaking from the damage inside or gas travelling along the line of the service connection pipe from outside the building may cause a build-up of gas within the building.
  - Prohibit smoking, and extinguish all naked flames and other sources of ignition i.e. stop excavator and compressor engines within at least 5.0m of the leak.
  - Inform National Grid by dialling **0800 111 999**
  - Remain on site.
  - Assist National Grid staff, Police or Fire Services as requested.
15. Where gas pipes cross or are parallel and close to excavations, changes in backfill etc. may cause differential ground settlement and increased stress in the pipe. For pipes parallel and close to excavations, the degree of risk depends upon the depth of the excavation, the distance of the pipe from the excavation, the type of soil and any excessive loading from heavy construction plant and materials. Wherever excavation works may affect the support of the gas pipe or cause excessive loading over the gas pipe then GTC must be consulted.

16. No concrete or other hard material should be placed or left under or adjacent to any gas pipe as this can cause pipe fracture at a later date. Concrete backfill should not be used within 300mm of a gas pipe.
17. Where an excavation uncovers a gas pipe with a damaged wrapping, GTC should be told, so that repairs can be made to prevent future corrosions and leakage.
18. Pipe restraints or thrust blocks close to gas mains should never be removed.
19. Anyone who carries out work near underground gas plant should observe any specific requirements made by the site manager, and ensure that access to the plant by National Grid Gas and GTC staff is available at all times. No unauthorised repairs to gas pipes should be made.
20. Where excavation is within 5 metres proximity to above or below ground pressure control equipment, ground workers must be aware of the possibility of encountering small impulse pipe work that is more susceptible to damage.
21. Where PE pipes and cables have been exposed and it is intended hot work (e.g. welding, grinding, etc) be carried out, contact must be made with GTC to confirm additional precautions and actions that may require to be undertaken.
22. GTC should be consulted if it is intended to carry out any of the following activities:
  - using explosives within 30m of gas pipes or 400m of gas pressure reduction equipment
  - piling or boring within 15m of gas plant
  - excavating within 10m of pressure reduction equipment
  - reducing the cover or protection of a gas pipe
  - carrying out nearby deep excavations
  - working near our intermediate pressure (IP) mains.

### **Precautions for Electricity Networks**

23. Plans do not always show the presence of electric service cables (from the electricity main to premises) but their existence should be assumed.
24. In most cases there will be no permanent surface marker posts or other visible indication of the presence of a buried cable. Even if no cables are shown on plans or detected by a locator, there may still be cables present, which could be live and a close watch should be kept for any signs which could indicate their presence such as marker tape, tape tile, concrete tiles and wooden battens. Any marker which is disturbed by our excavations must be replaced once work is completed.
25. Typically underground cables are laid in trenches between 450mm and 1.0m deep, although some high voltage cables will be deeper, however, depths should never be assumed.
26. A cable is positively located only when it has been safely exposed. Even then, digging should still proceed with care as there may be other cables adjacent or lower down.

27. Occasionally, cables are terminated in the ground by means of a seal, sometimes with external mechanical protection. These "pot ended" or "bottle ended" cables should be treated as live and should not be assumed to be abandoned or disused. They can be difficult to detect with locators even when "live".
28. Using hand held power tools to break up hard surfaces often leads to accidents. Where practicable, such power tools should only be used 500mm or more away from the indicated line of a cable buried in or below a hard surface. Having done so, the cable should then be positively located by careful hand digging under the hard surface. The hard surface should be gradually removed until the cable is exposed. If the cable is not exposed then it must be assumed to be embedded within the surface. Where possible a cable locator should be used as a depth guide down the side of the excavation.
29. Because of the difficulty in confirming depth, hand held power tools should never be used over the cable unless either:
  - the cable has already been exposed by digging under the surface to be broken out and it is at a safe depth (at least 300mm) below the bottom of the hard surface material; or
  - physical precautions have been taken to prevent the tool striking the cable.
30. Excavating close to electricity cables buried in concrete is dangerous and should not be undertaken unless the cable(s) have been isolated. For this reason alone electricity cables should not be buried in concrete.
31. Using mechanical means to break up concrete can cause damage to cables and if the cable is live, anyone present is likely to be injured.
32. Where mechanical excavators are used in the possible vicinity of underground cables, the work should be arranged so that damage to cables is avoided so far as is reasonably practicable and so that everyone is kept well clear of the excavator bucket while it is digging. Drivers should have been instructed to stay in the cab if a cable is struck. If they have to leave the cab, they should jump clear. If drivers climb down, they may be electrocuted. When a cable is struck, a watch should be kept on the machine and no one should go down into the excavation or approach the mechanical excavator or the cable until GTC are contacted and arranged for the damaged cable to be made safe.
33. Where cables have been exposed:
  - any damage should be reported to GTC immediately on **0800 032 6990** and work should not be undertaken in the vicinity of a damaged cable until GTC has investigated its condition;
  - for more than 1.0m and they cross a trench, support should be provided. If the exposed cable length is shorter than 1.0m support should still be considered if joints have been exposed or the cable appears otherwise vulnerable to damage. Where advice and help is needed contact GTC;

- Suitable precautions should be taken to prevent damage from on-going work in the excavation. This may involve for example the use of physical means (e.g. timber boards, sandbags etc) to prevent mechanical damage. Materials or equipment which could damage or penetrate the outer sheath of the cable should not be used. Cables lying in the bottom of an excavation are particularly vulnerable and should be protected by nail free wooden planks, troughing or other suitable means;
  - cables should not be moved aside unless the operation is supervised by GTC;
  - Precautions should be taken to prevent access by members of the public.
34. GTC should be consulted if it is intended to carry out any of the following activities:
- using explosives within 30m of plant or substations piling or boring within 15m of electric plant
  - excavating within 10m of a substation
  - carrying out nearby deep excavations
  - working near our HV plant.

### **Precautions for Water Networks**

35. Plans do not always show the presence of water service pipes (from the water main to premises) but their existence should be assumed.
36. The depth of cover for water mains is normally 750mm in carriageways and grass verges and 750mm footways. The depth of cover for water services is normally 450mm. Remember these covers are to finished level, you may be working in an area, which will be made up or lowered at a later date.
37. Water mains should be located by hand digging before mechanical excavation begins. When the positions and depth of the pipes have been determined, work can proceed.
38. The danger created by damaging a water pipe with an excavator is much greater than if the damage is done with a hand-held power tool (the opposite is true for work near electricity cables and this is reflected in the different safe digging practices). Water pipes may have projections such as valve housings, which are not shown on the plans and to allow for this mechanical excavators should not be used within 500mm of a water pipe.
39. If a water leak is suspected, the following action should be taken immediately:
- Remove all people from the immediate vicinity of the damage. It is important to note that a mechanical excavator may not only cause damage/leakage at the point of impact. For example, damage to a service connection outside the building may result in further, unseen damage to the connection inside the building.
  - Shut down all working plant and machinery in the vicinity of the damage

- Inform IWNL by dialling **02920 028 711**.
  - Remain on site.
  - Do not attempt to make a repair.
  - Assist GTC, approved contractors and Police or Fire Services as requested.
40. Where water pipes cross or are parallel and close to excavations, changes in backfill etc. may cause differential ground settlement and increased stress in the pipe. For pipes parallel and close to excavations, the degree of risk depends upon the depth of the excavation, the distance of the pipe from the excavation, the type of soil and any excessive loading from heavy construction plant and materials. Wherever excavation works may affect the support of the water pipe or cause excessive loading over the water pipe then GTC must be consulted.
41. No concrete or other hard material should be placed or left under or adjacent to any water pipe as this can cause pipe fracture at a later date. Concrete backfill should not be used within 300mm of a water pipe.
42. Where an excavation uncovers a water pipe with a damaged wrapping, GTC should be told, so that repairs can be made to prevent future corrosions and leakage.
43. Pipe restraints or thrust blocks close to water mains should never be removed.
44. Anyone who carries out work near underground water plant should observe any specific requirements made by the site manager, and ensure that access to the plant by GTC staff is available at all times. No unauthorised repairs to water pipes should be made.
45. Where PE pipes and cables have been exposed and it is intended hot work (e.g. welding, grinding, etc) be carried out, contact must be made with GTC to confirm additional precautions and actions that may require to be undertaken.
46. GTC should be consulted if it is intended to carry out any of the following activities:
- using explosives within 30m of plant
  - piling or boring within 15m of water plant
  - excavating within 10m of water asset structures
  - reducing the cover or protection of a water main or service
  - carrying out nearby deep excavations

### **Precautions for Fibre Networks**

47. Plans may not always show the presence of fibre ducts but their existence should be assumed if GTC advise they have fibre services deployed in the given area. Any planned excavation work should only proceed with due care and attention.
48. Chambers with IFNL marked lids can be used as an onsite indicator that GTC have fibre plant deployed in a given area however an exclusion of their presence does not necessarily mean there is no plant present.

49. In most cases there will be no permanent surface marker posts or other visible indication of the presence of a buried fibre duct. Even if no ducts are shown on plans there may still be ducts present which could have live fibre service installed. A close watch should be kept for any signs which could indicate duct presence such as marker tape. Any marker which is disturbed by our excavations must be replaced once work is completed.
50. The depth of cover for fibre duct is normally 350mm in footways and grass verges, 600mm in carriageways and 1000mm in agricultural deployments. Remember these covers are to finished level, you may be working in an area, which will be made up or lowered at a later date.
51. Fibre ducts should be located by hand digging before mechanical excavation begins. When the positions and depth of the ducts have been determined, work can proceed. Even then, digging should still proceed with care as there may be other ducts adjacent or lower down.
52. If fibre duct damage is suspected, the following action should be taken immediately:
  - Remove all people from the immediate vicinity of the damage. It is important to note that a mechanical excavator may not only cause damage at the point of impact. For example, damage to a fibre connection outside the building may result in further, unseen damage to the connection inside the building.
  - Shut down all working plant and machinery in the vicinity of the damage
  - Inform IFNL NOC immediately on **0845 051 1669**.
  - Remain on site.
  - Do not attempt to make a repair.
53. Where fibre ducts cross or are parallel and close to excavations, changes in backfill etc. may cause differential ground settlement and increased stress on the duct. For ducts parallel and close to excavations, the degree of risk depends upon the depth of the excavation, the distance of the duct from the excavation, the type of soil and any excessive loading from heavy construction plant and materials. Wherever excavation works may affect the support of the fibre duct or cause excessive loading over the fibre duct then GTC must be consulted.
54. No concrete or other hard material should be placed or left under or adjacent to any fibre duct as this can cause damage to the duct at a later date. Any backfill should comply with the requirements of NRSWA. Concrete backfill should not be used within 300mm of a fibre duct.
55. Anyone who carries out work near underground fibre plant should observe any specific requirements made by the site manager, and ensure that access to the plant by GTC staff is available at all times. No unauthorised repairs to fibre ducts should be made.
56. Where fibre ducts have been exposed and it is intended hot work (e.g. welding, grinding, etc) be carried out, contact must be made with GTC to confirm additional precautions and actions that may require to be undertaken.

57. GTC should be consulted if it is intended to carry out any of the following activities:

- using explosives within 30m of plant or fibre asset structures
- piling or boring within 15m of fibre plant
- excavating within 10m of fibre asset structures (including the OSCP)
- reducing the cover or protection of a fibre duct
- carrying out nearby deep excavations



421491

GORESBROOK ROAD RM9 6XS

## 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](mailto:plans@nwl.co.uk)  
or : [assetplans@eswater.co.uk](mailto:assetplans@eswater.co.uk)

Date: 14/SEP/2020  
Ref: 1150079

**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.



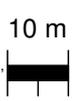
Valves/Regulators	Fittings/Symbols	Storage/Operations	Network Types	Specific Main Types	Area Types
P1 P2 P3 P4			Distribution Treated Raw Fire Supply	Abandoned Asbestos Abandoned Out of Commission Private Proposed	Water Quality District Metering Easement



User : DAWSJ1  
 Title : 0000  
 Centre Point : 548215,183860

Date : 08/09/2020  
 Map Sheet : TQ4883NW

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, its 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** 184  
Goresbrook Road  
Dagenham  
RM9 6XS

**Your reference** 421491

**Our reference** ALS/ALS Standard/2020\_4248120

**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](mailto:searches@thameswater.co.uk)  
[www.thameswater-propertysearches.co.uk](http://www.thameswater-propertysearches.co.uk)



0845 070 9148

**Search address supplied:** 184, Goresbrook Road, Dagenham, RM9 6XS

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](mailto:searches@thameswater.co.uk)

Web: [www.thameswater-propertysearches.co.uk](http://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

# Asset location search



# Property Searches

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](mailto:developer.services@thameswater.co.uk)

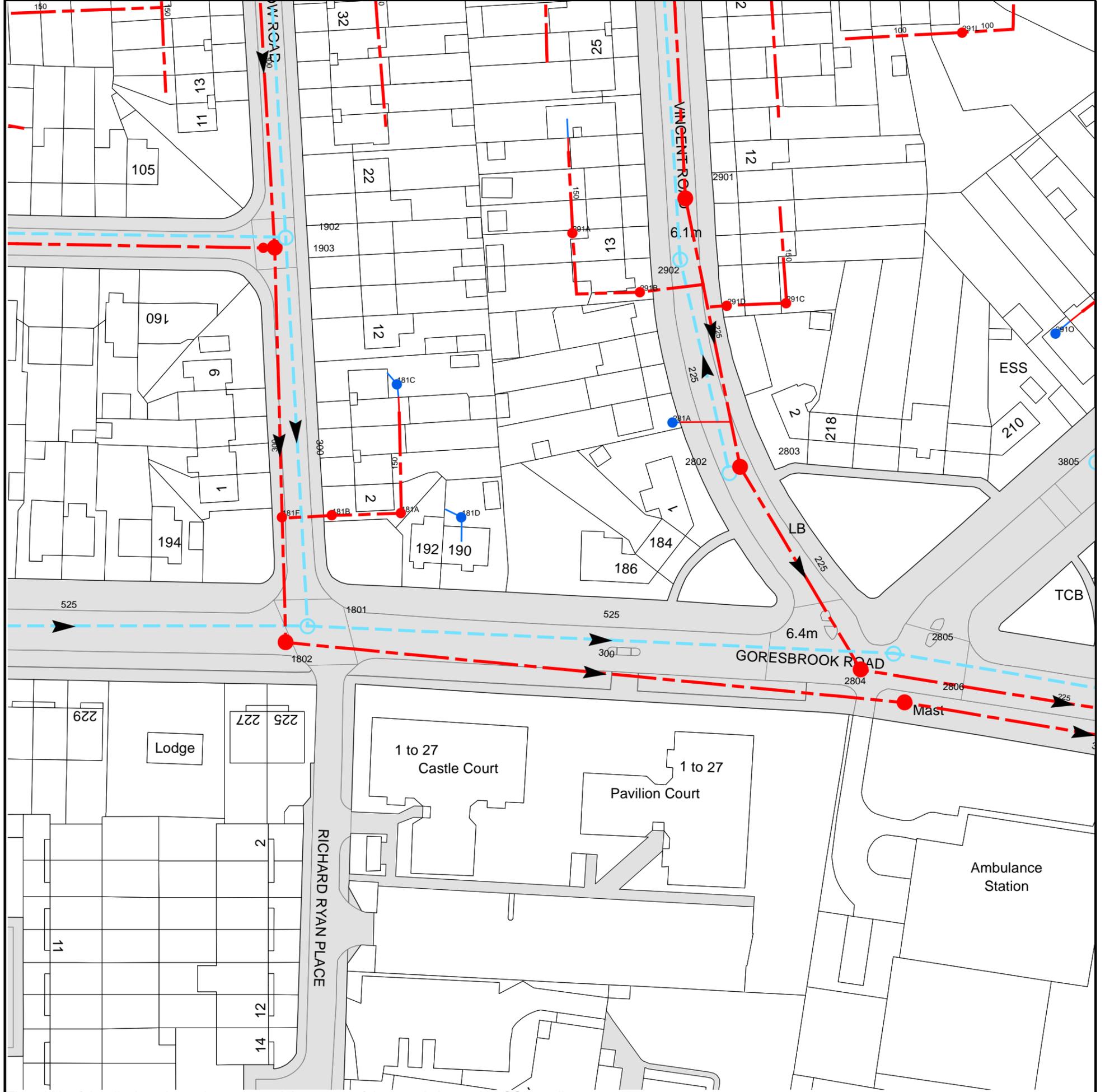
### Clean Water queries

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](mailto:developer.services@thameswater.co.uk)

**Asset Location Search Sewer Map - ALS/ALS Standard/2020\_4248120**



The width of the displayed area is 200 m and the centre of the map is located at OS coordinates 548202,183865

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
291D	n/a	n/a
291B	n/a	n/a
2902	6.15	4.39
1903	6.5	1.66
1902	6.47	3.65
291A	n/a	n/a
2901	6.12	3.58
291C	n/a	n/a
291L	n/a	n/a
2806	6.5	n/a
2804	6.49	n/a
2805	6.53	n/a
1802	n/a	n/a
1801	6.57	3.12
181D	n/a	n/a
181F	n/a	n/a
181B	n/a	n/a
181A	n/a	n/a
2802	6.32	4.53
2803	6.34	3.37
3805	6.06	4.17
281A	n/a	n/a
181C	n/a	n/a
291O	n/a	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

## 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

### 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.
- 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.

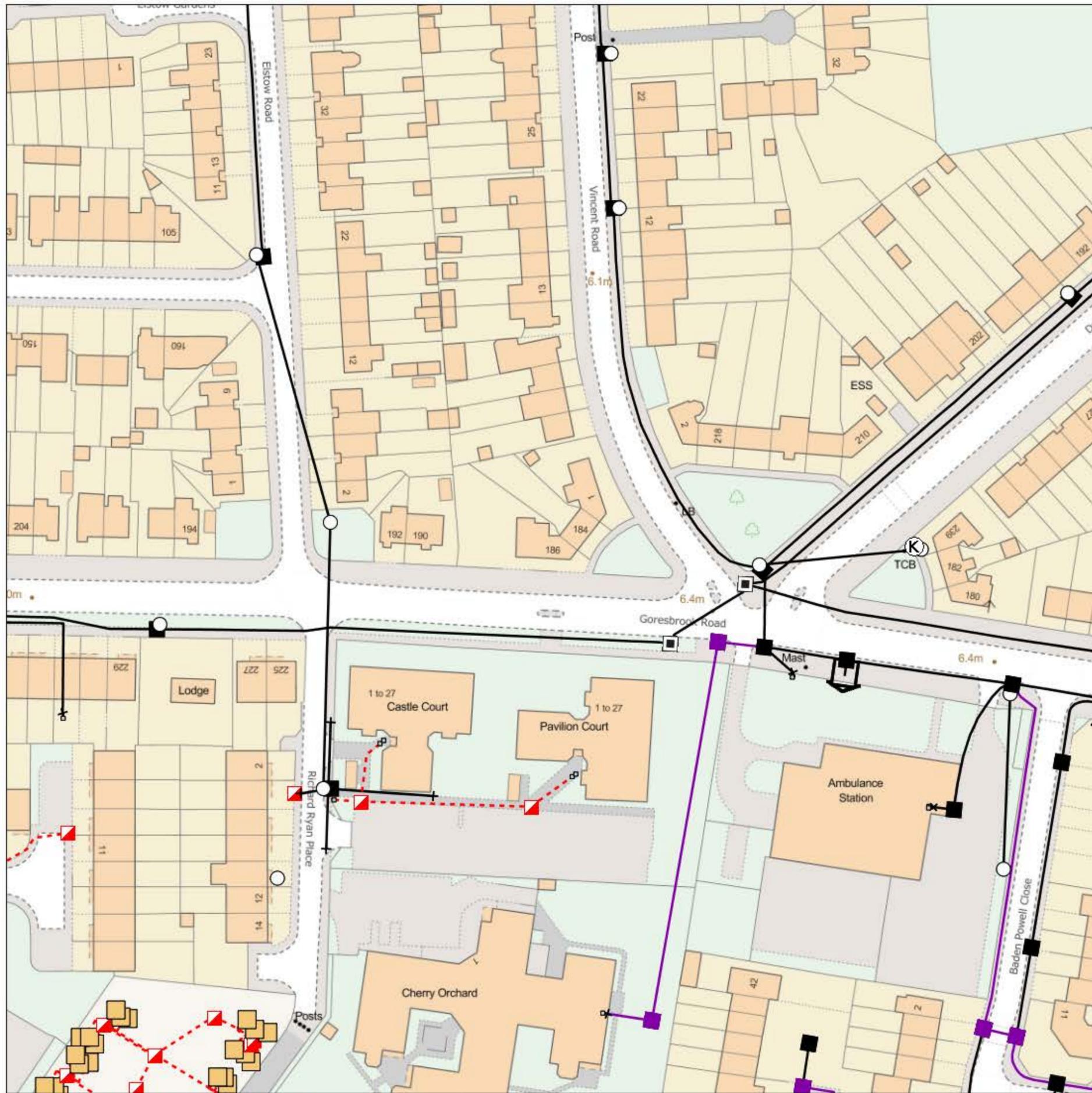
If the Goods or Services covered by this invoice falls under the regulation of the 1991 Water Industry Act, and you remain dissatisfied you can refer your complaint to Consumer Council for Water on 0121 345 1000 or write to them at Consumer Council for Water, 1st Floor, Victoria Square House, Victoria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

## Ways to pay your bill

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

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](mailto:cbyd@openreach.co.uk)

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

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(C) Crown Copyright British Telecommunications plc 100028040

BT Ref : YAR03506U  
Map Reference : (centre) TQ4821583860  
Easting/Northing : (centre) 548215,183860  
Issued : 04/09/2020 15:50:54

**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](mailto:nnhc@openreach.co.uk)**

**From:** [Shivakumar, Gokila](#)  
**To:** [Max Coetzee](#)  
**Subject:** RE: C2 ENQUIRY REQUEST 421491 Goresbrook Road  
**Date:** 08 September 2020 02:38:36  
**Attachments:** [image002.png](#)  
[image003.png](#)  
[548215.pdf](#)  
[Special Requirements.pdf](#)

---

Please accept this email as confirmation that Vodafone: Fixed **does** have apparatus within the vicinity of your proposed works detailed below.

Please see attached network information.

**IMPORTANT - PLEASE READ = Your Next Step?:-**

Where apparatus is affected and requires diversion, please send all the scheme related proposals that affects the Vodafone Network to [c3requests@vodafone.com](mailto:c3requests@vodafone.com) with a request for a 'C3 Budget Estimate'. Please ensure you include a plan showing proposed works. (A location plan is insufficient for Vodafone to provide a costing). These estimates will be provided by Vodafone directly, normally within 20 working days from receipt of your request. Please include proof of this C2 response when requesting a C3 (using the 'forward' option). Diversionary works may be necessary if the existing line of the highway/railway or its levels are altered.

**If you require a quote for new development, commercial site connections - please email your requirements and associated plans to [c3requests@vodafone.com](mailto:c3requests@vodafone.com) and a budget estimate will be returned, within 10 working days of receipt**

Plant Enquiries Team  
T: +44 (0)1454 662881  
E: [osm.enquiries@atkinsglobal.com](mailto:osm.enquiries@atkinsglobal.com)

ATKINS working on behalf of Vodafone: Fixed



This response is made only in respect to electronic communications apparatus forming part of the Vodafone Limited electronic communications network formerly being part of the electronic communications networks of Cable & Wireless UK, Energis Communications Limited, Thus Group Holdings Plc and Your Communications Limited.

**PLEASE NOTE:**

The information given is indicative only. No warranty is made as to its accuracy. This information must not be solely relied upon in the event of excavation or other works carried out in the vicinity of Vodafone plant. No liability of any kind whatsoever is accepted by Vodafone, its servants, or agents, for any error or omission in respect of information contained on this information. The actual position of underground services must be verified and established on site before any mechanical plant is used. Authorities and contractors will be held liable for the full cost of repairs to Vodafone's apparatus and all claims made against them by Third parties as a result of any interference or damage.



Please consider the environment before printing this e-mail

---

**From:** Max Coetzee <[max.coetzee@apogeeutilityconsultants.co.uk](mailto:max.coetzee@apogeeutilityconsultants.co.uk)>  
**Sent:** 04 September 2020 20:15  
**To:** National Plant Enquiries <[OSM.enquiries@atkinsglobal.com](mailto:OSM.enquiries@atkinsglobal.com)>  
**Subject:** C2 ENQUIRY REQUEST 421491 Goresbrook Road



# Special Requirements relating to the External Plant Network of Vodafone

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



## 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



Special Requirements relating to the External Plant Network of Vodafone



Mercury Communications Limited



Energis Communications Limited



Thus plc



Special Requirements relating to the External Plant Network of Vodafone



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 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

Plant Enquiry Ref: VM.1171458  
Letter Date 04.09.2020  
Your Ref: 421491  
Date: 07.09.2020

Dear Sir/Madam,

Enquiry Location: Goresbrook Road, RM9 6XS.

Thank you for your enquiry regarding work at the above location.  
I enclose a copy of our above referenced drawing, marked to show the approximate position of plant owned and operated by Virgin Media.

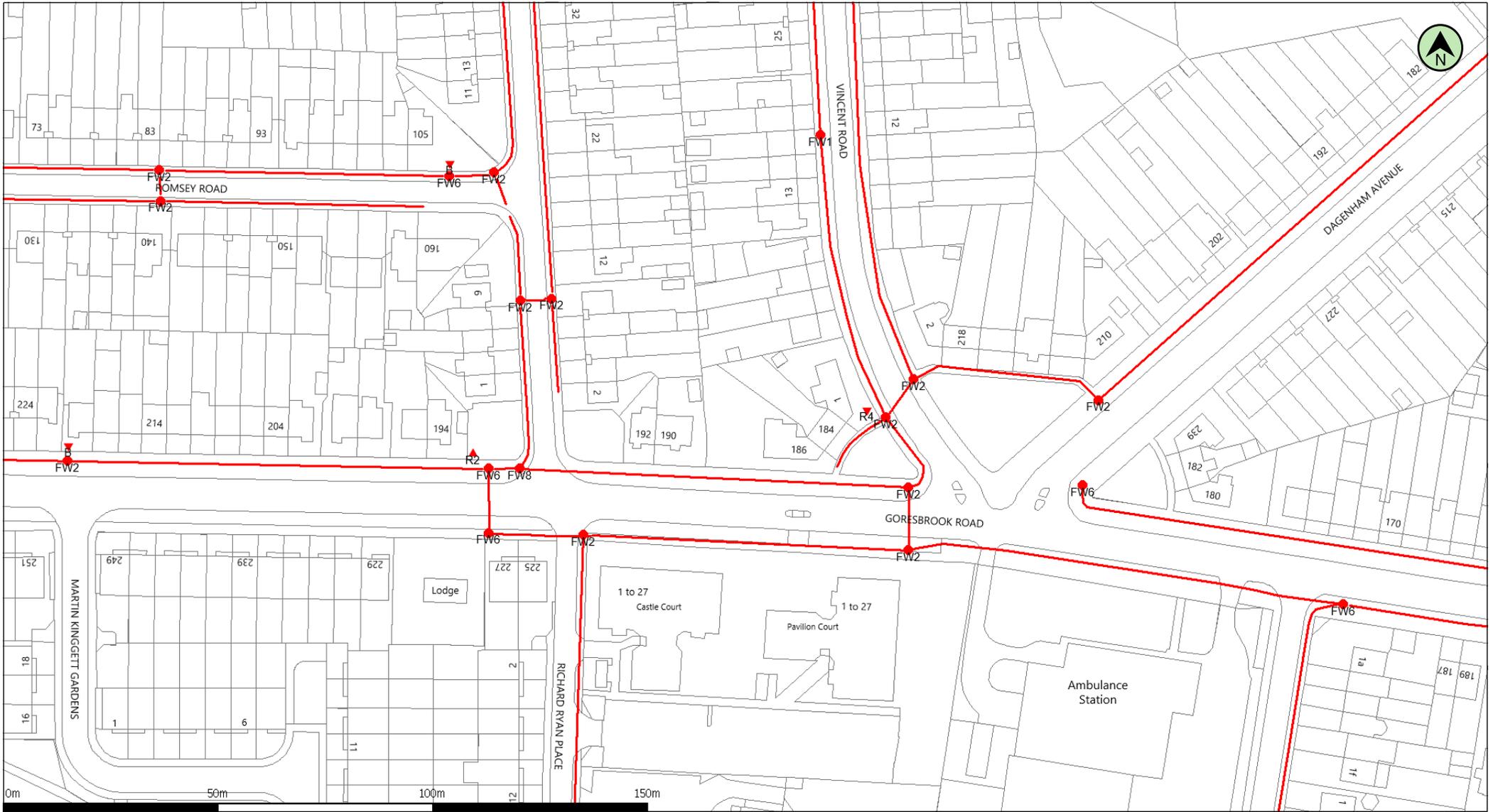
You will be aware that you have a duty to ensure that no damage results to this equipment as a result of your proposed works. Please note that this apparatus may contain Fibre Optic, Coaxial and/or 240v Power Cables and as such, special care must be taken when excavating this area.

Should you require Virgin Media apparatus to be diverted we must agree a specification of works and provide a detailed estimate of costs. The costs are £720 (Business) or £240 (Residential) Inc VAT and the charge applies to each individual scheme requested. Both the estimate and specification will be sent to you within 25 working days of when the payment was received.

This initial payment will cover the following: -

- Detailed site visit by an experienced planning engineer. (Up to 10 hours planning time)
- Detailed specification of works.
- Detailed breakdown of costs.

Payment is required in advance for the estimated cost of detailed design work and the charge applies whether or not your works proceed. Please supply us with your payment and a copy of your plans or drawings and quote 'Our Ref' as above.



(c) Crown copyright and database rights 2020 Ordnance Survey 100019209

Date: 07/09/20

Scale: 1:1248

Map Centre: 548203,183870

Data updated: 03/08/20

Telecoms Plan A4

Important Information - please read The purpose of this plan is to identify Virgin Media apparatus. We have tried to make it as accurate as possible but we cannot warrant its accuracy. In addition, we caution that within Virgin Media apparatus there may be instances where mains voltage power cables have been placed inside green, rather than black ducting. Further details can be found using the "Affected Postcodes.pdf", which can be downloaded from this website. Therefore, you must not rely solely on this plan if you are carrying out any excavation or other works in the vicinity of Virgin Media apparatus. The actual position of any underground service must be verified by cable detection equipment, etc. and established on site before any mechanical plant is used. Accordingly, unless it is due to the negligence of Virgin Media, its employees or agents, Virgin Media will not have any liability for any omissions or inaccuracies in the plan or for any loss or damage caused or arising from the use of and/or any reliance on this plan. This plan is produced by Virgin Media Limited (c) Crown copyright and database rights 2020 Ordnance Survey 100019209.

Duct, Trench



Chamber



Cabinet



aditya.zade@virginmedia.co.uk

VM.1171458





Our Ref: 19839101      Your Ref: 421491

Friday, 04 September 2020

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

Dear Max Coetzee

### **GTT - Asset Network Plans**

We acknowledge with thanks your request for information on the location of our assets.

#### **HIGH RISK – Fibre Optic Cable in the area**

Within the search radius area you have requested GTT are affected by your proposals and we have attached a map showing the relevant mark up of our plant within that radius.

The search carried out covers the former Hibernia, Interoute and Vtesse Network fibre duct and cable assets.

Gtt's fibre optic network is developing and extending every day. The information provided is current as dated above. If it is evident on site that additional fibre optic plant and equipment is present and is not indicated on the drawing, then Gtt must be contacted immediately on the number below.

Please quote the above reference in any future communication.

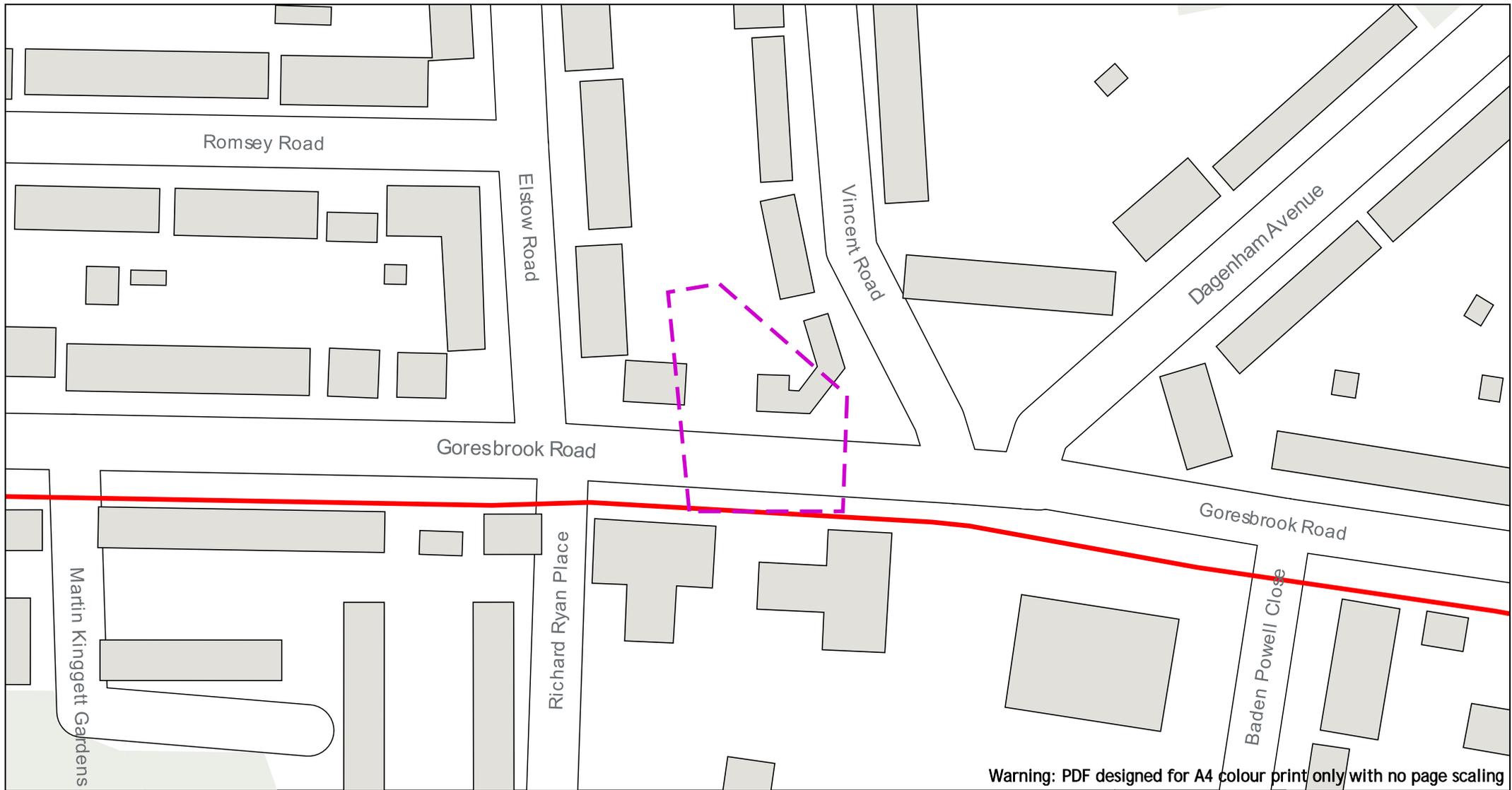
No liability of any kind whatsoever is accepted by Gtt it's servants or agents for any error or omission. Please ensure that the attached drawing and a copy of this letter are passed to the relevant undertaker of the work.

We would ask that before any excavation within the vicinity be carried out, discussion are had with the gtt network team. All precautions should be taken to ensure our plant is not damaged. In the event of any damage to our plant, please contact us as soon as possible on our Central NOC No- Freephone: 0207 025 9650, which is staffed 24/7.

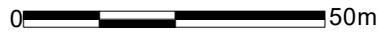
Please contact Gtt at least 4 weeks in advance of any works, we welcome the opportunity for a site meeting or to supervise the works should we feel necessary.

#### **Gtt contact details below;**

Mob: +44 (0) 7970 775 310  
Email: Michael.Hayward@gtt.net  
24/7: Global.Operations@gtt.net



Warning: PDF designed for A4 colour print only with no page scaling



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.



Date Requested: 04/09/2020  
 Job Reference: 19839101  
 Site Location: 548154 183822  
 Requested by:  
 Mr Max Coetzee  
 Your Scheme/Reference:  
 421491

The information on this document is proprietary and shall not be used, copied, reproduced or disclosed in whole or in part without written consent of GTT. The location of GTT's apparatus is indicated on the plan for general guidance but the exact location may vary from that shown. GTT cannot guarantee the accuracy of this document and Safe Digging Practices should always be used to identify the exact location of any utility's plant. GTT accept no liability for any errors or omissions.

Southport Business Park  
 Wight Moss Way  
 Southport, PR8 4HQ  
 United Kingdom  
 +44 (0) 7970 775 310  
 Michael.Hayward@gtt.net  
 Global.Operations@gtt.net

GTT Route

**In Emergency Call: +3531 (0) 8673 600 Option 1**

Scale: 1:1250 (When plotted at A4)

**From:** [KPN Plant Enquiries](#)  
**To:** [Max Coetzee](#)  
**Subject:** RE: K09-20- 1180 C2 ENQUIRY REQUEST 421491 Goresbrook Road  
**Date:** 10 September 2020 13:55:14  
**Attachments:** [image004.png](#)  
[image005.png](#)  
[image006.png](#)  
[image008.png](#)  
[image009.emz](#)  
[421491 Goresbrook Road.pdf](#)  
[KPN Guide To Excavation.pdf](#)

---



Dear Sir/Madam,

With reference to your plant enquiry below, we enclose the drawing(s) on behalf of KPN indicating the approximate position of services in this area.

We would draw your attention to the fact that while the position of the plant has been shown as accurately as possible, the information is intended as a general guide only and must not be relied upon in the event of any excavations or other work in the vicinity. We would remind you that the onus remains on you to determine the exact position for example by a hand excavated trial hole. Instalcom accepts no liability for claims arising from any inaccuracy, omissions or errors contained herein. If you would like to query the location further, please email us accordingly and we can arrange an in depth survey, which will be charged at a cost.

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

**Plant Protection Administrator**

**Instalcom Limited**  
**Borehamwood Ind. Park**  
**Rowley Lane**  
**Borehamwood**  
**WD6 5PZ**  
**E mail: - [kpn.plantenquiries@instalcom.co.uk](mailto:kpn.plantenquiries@instalcom.co.uk)**  
**Phone: - 020 8731 4600**  
**Fax: - 020 8731 4601**  
**Web: - [www.instalcom.co.uk](http://www.instalcom.co.uk)**



## **SPECIAL REQUIREMENTS IN RELATION TO KPN PLANT**

1. In this special requirement, the following terms shall have the meanings assigned to it:-
  - a. "Company" means KPN.
  - b. "Company Representative" means the staff of KPN or its Authorized Representatives and Agents.
  - c. "Apparatus" means all surface or sub-surface equipment and plant including any associated cabling and/or ducting owned leased or rented by KPN.
2. Before commencing any work or moving heavy plant or equipment over any portion of the site, the contractor shall confirm details of the Apparatus, owned, leased or rented by the Company, within the site with the Company Representative, who can be contacted at the following point:-

**Instalcom Limited**  
**Borehamwood Industrial Park**  
**Rowley Lane**  
**Borehamwood**  
**Hertfordshire**  
**WD6 5PZ**  
**Tel: 0208 731 4600**  
**Fax: 0208 731 4601**  
**E-mail: [kpn.plantenquiries@instalcom.co.uk](mailto:kpn.plantenquiries@instalcom.co.uk)**

3. Where such details show that the works or the movement of plant or equipment may endanger the Apparatus of the Company the Contractor must give the Company Representative at least 7 days written notice of the date on which it is intended to commence such works of the movement of plant and equipment in order that the presence of any sub-surface apparatus can be indicated by markers to be supplied by the Company and placed by the Contractor under the supervision of a Company Representative. The Contractor shall ensure that all Company Apparatus, particularly surface running cabling is adequately protected from damage and such protective measures shall be approved by the Company Representative.
4. In the event of a Company marker being disturbed for any reason, it shall not be replaced other than in the exact position of its former depth unless the repositioning is carried out at the direction and under the supervision of a Company Representative.
5. The Contractor shall take particular care in relation to the protection of Company Apparatus, where such Apparatus includes the presence within the site of optical fibre cabling. The contractor should particularly note that the damage to such Apparatus is extremely disruptive to the Company network and costly to reinstate. The Contractor shall make every effort to avoid the disturbance of Company Apparatus more than is absolutely necessary for the completion of the works in accordance with the contract.

6. When excavating around, moving or backfilling around Company Apparatus, the Company Representative shall be given adequate notice, which shall not be less than 3 days, of the contractor's intentions in order that he may supervise the works. The Contractor should note that the normal depth of cover for Company Apparatus and ducts are as follows:-

- a. Carriageways 600mm
- b. Footways 350mm
- c. Verges 450mm

These minimum depths of cover should be maintained wherever possible.

Where the minimum depths of cover cannot be maintained, the Contractor shall carry out the instructions of the Company Representative for the protection of Company Apparatus.

Where cables are not in duct and the required depth of cover cannot be maintained, such cables as are affected shall be enclosed and protected in UPVC duct or equivalent materials as supplied by the Company and by the method directed by the Company Representative.

With regard to excavation in the vicinity of Company Apparatus the Contractor should have particular regard to the possibility of reduced cover and the encountering of such Company Apparatus at depths of cover less than that given at **a, b and c above**.

7. All excavation adjacent to Company Apparatus is to be carried out by hand until the exact extent and/or location of Company Apparatus is known. Mechanical borers and/or excavators shall not be used within 1.0m of Company Apparatus without the supervisory presence of a Company Representative, to prevent any movement of Company Apparatus during excavations, complete shuttering shall be used as directed by the Company Representative if:-

- a. Excavation is deeper than the depth of cover of adjacent Company Apparatus.
- b. Excavation is within 1.0m of Company Apparatus in stable ground.
- c. Excavation is within 5.0m of Company Apparatus in unstable ground.

If for the completion of the works, the Contractor intends using any of the following: -

- a. Pile driving equipment within 10.0m of Company Apparatus.
- b. Explosives within 20.0m of Company Apparatus.
- c. Laser equipment within 10.0m of Company Apparatus.

The Contractor shall advise the Company Representative, giving at least 7 working days written notice in order that any special protective measure for the Company Apparatus affected may be arranged.

8. All Company manhole, joint box and /or other access points and chambers within the site shall be kept clear and unobstructed. Access for vehicles, winches, cable drums and/or further equipment required by the Company for the maintenance of it's Apparatus, must be maintained at all reasonable times. The Contractor should particularly note that footway type jointing chambers are not specified for carriageway loadings and will need to be adequately protected and/or demolished and rebuilt under the supervision of a Company Representative where such chambers are likely to be placed at risk, either temporarily or permanently, from the movement of plant and/or equipment on the site.

9. The covers to Company chambers and/or Apparatus shall only be lifted by means of appropriate keys obtained from the Company Representative and under the direct supervision of the Company Representative. No employee of the Contractor or of any sub-contractor employed by the Contractor shall enter any chamber and/or Apparatus of the Company unless under the supervision of the Company Representative and in any case not before the mandatory gas check has been carried out in the presence of the Company Representative and such checks have shown it to be safe to enter the chamber and/or Apparatus of the Company.

The Company Representatives shall be given reasonable access to all Company Apparatus and chambers when required.

10. In the event of any damage whatsoever to Company Apparatus, the Contractor shall immediately inform the Company Representative and report the occurrence immediately by contacting the Company as follows:-

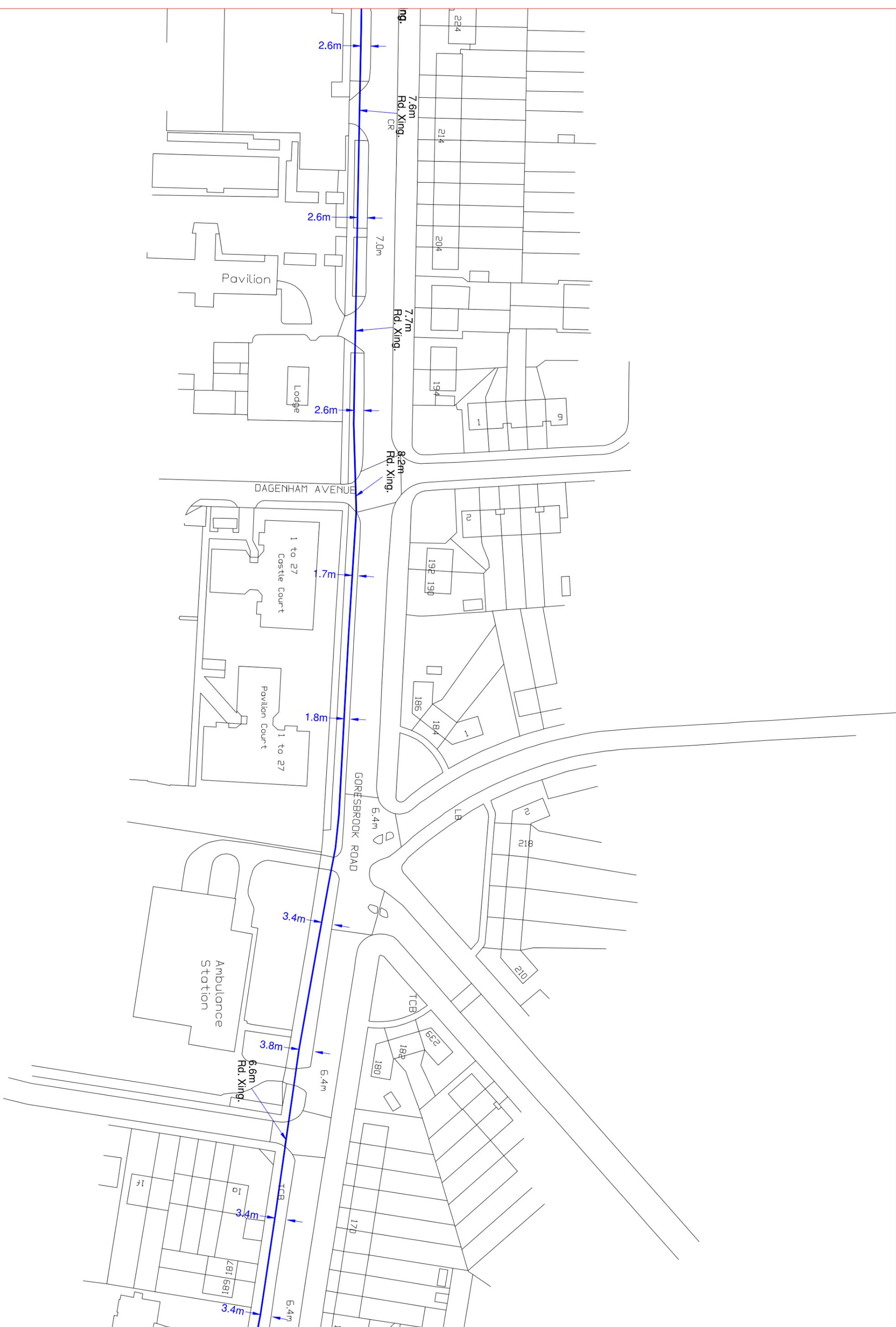
**Telephone:-**

**0208 731 4600 - Mon-Fri Office Hours (Instalcom Head Office)**  
**0845 330 8615 - Out of Office Hours / Weekends**

11. The above requirements do not relieve the Contractor of any of his obligations under the Contract.

**The accuracy of information on the plans cannot be guaranteed and no liability can be accepted for errors or omissions.**

**Damage to Communications Plant is Expensive – Please Take Care.**



**From:** [Harris Jones, Tabitha \(NRSWA Administrator\)](#)  
**To:** [Max Coetzee](#)  
**Subject:** C2 ENQUIRY REQUEST 421491 Goresbrook Road  
**Date:** 04 September 2020 17:01:14  
**Attachments:** [image005.png](#)



SKY Telecommunications Services Ltd  
70 Buckingham Avenue  
SLOUGH  
SL1 4PN  
Tel: 0207 0323 234/250  
Fax: 020 70323252  
email: [nrswa@sky.uk](mailto:nrswa@sky.uk)

04/09/2020

Further to your recent enquiry, the following Sky route(s) may be indirectly affected by your proposed works:

**Telehouse North - Ipswich**

The SKY route(s) is indirectly affected as we only lease telecoms infrastructure from **Interoute**, who own and are responsible for the maintenance or diversion thereof. For further information or detailed plans for this area, please contact the **Interoute** Enquiry Team, by email: [Interoute.enquiries@planecast.co.uk](mailto:Interoute.enquiries@planecast.co.uk).

Please note that if our apparatus is deemed to be affected by your proposal and requires relocation or diversion in any way, you will need to contact SKY to provide estimates as per NRSWA Diversionary Works process.

Regards

NRSWA Department  
Tech UK - Implementation

**sky | TECHNOLOGY**

✉ [nrswa@sky.uk](mailto:nrswa@sky.uk) ☎ +44 20703232234

---

**From:** Max Coetzee <[max.coetzee@apogeeutilityconsultants.co.uk](mailto:max.coetzee@apogeeutilityconsultants.co.uk)>  
**Sent:** 04 September 2020 15:46  
**To:** NRSWA <[nrswa.nrswa@sky.uk](mailto:nrswa.nrswa@sky.uk)>  
**Subject:** [EXTERNAL] C2 ENQUIRY REQUEST 421491 Goresbrook Road

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: 421491  
Location of Works: Goresbrook Road  
Postcode: RM9 6XS  
O.S. Grid Ref.: 548215, 183860  
Road No / Street Name: Elstow Road  
From: Vincent Road  
To: Richard Ryan Place  
Description of Works: Utility Works  
Expected Start Date: 02<sup>nd</sup> 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



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](mailto:max.coetzee@apogeeutilityconsultants.co.uk)  
[www.apogeeutilityconsultants.co.uk](http://www.apogeeutilityconsultants.co.uk)

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Registered Office: Suite 2, Sigma House Hadley Park East, Telford, Shropshire, TF1 6QJ. Incorporated in England & Wales No. 11208090

Consider the environment. Please don't print this e-mail unless you really need to.

Our Ref: 19839101      Your Ref: 421491

Friday, 04 September 2020

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

Dear Max Coetzee

**SSE Enterprise Telecoms - Asset Network Plans**

We acknowledge with thanks your request for information on the location of our assets.

We have attached a plan showing the location of SSE Enterprise Telecoms apparatus in the proposed work area for your information. If the map provided is missing any required information e.g. a background map, then please email [C2TelecomsRequests@sse.com](mailto:C2TelecomsRequests@sse.com) who will provide a more detailed map.

If you're laying your own services, please use the map provided showing our apparatus and follow your safe dig procedures. There is no need to contact us for permission to dig or arrange any supervision.

If you have determined your works may impact our existing apparatus, then please contact [Telecom.Alterations@sse.com](mailto:Telecom.Alterations@sse.com) for a Budget Estimate. For us to provide you with a Budget Estimate we will require the following information in order to progress your query as quickly and as efficiently as possible:

- A covering letter or details on the email
- Plans / maps showing existing & proposed conditions (min 1:500 scale and PDF format if emailed)
- Scheme cost apportionment information with confirmation of who the works principal is (the person or company funding your project)

SSE Enterprise Telecoms will respond with a Budget Fee letter (if your scheme falls outside of NRSWA) showing the payment required to prepare a Budget Estimate.

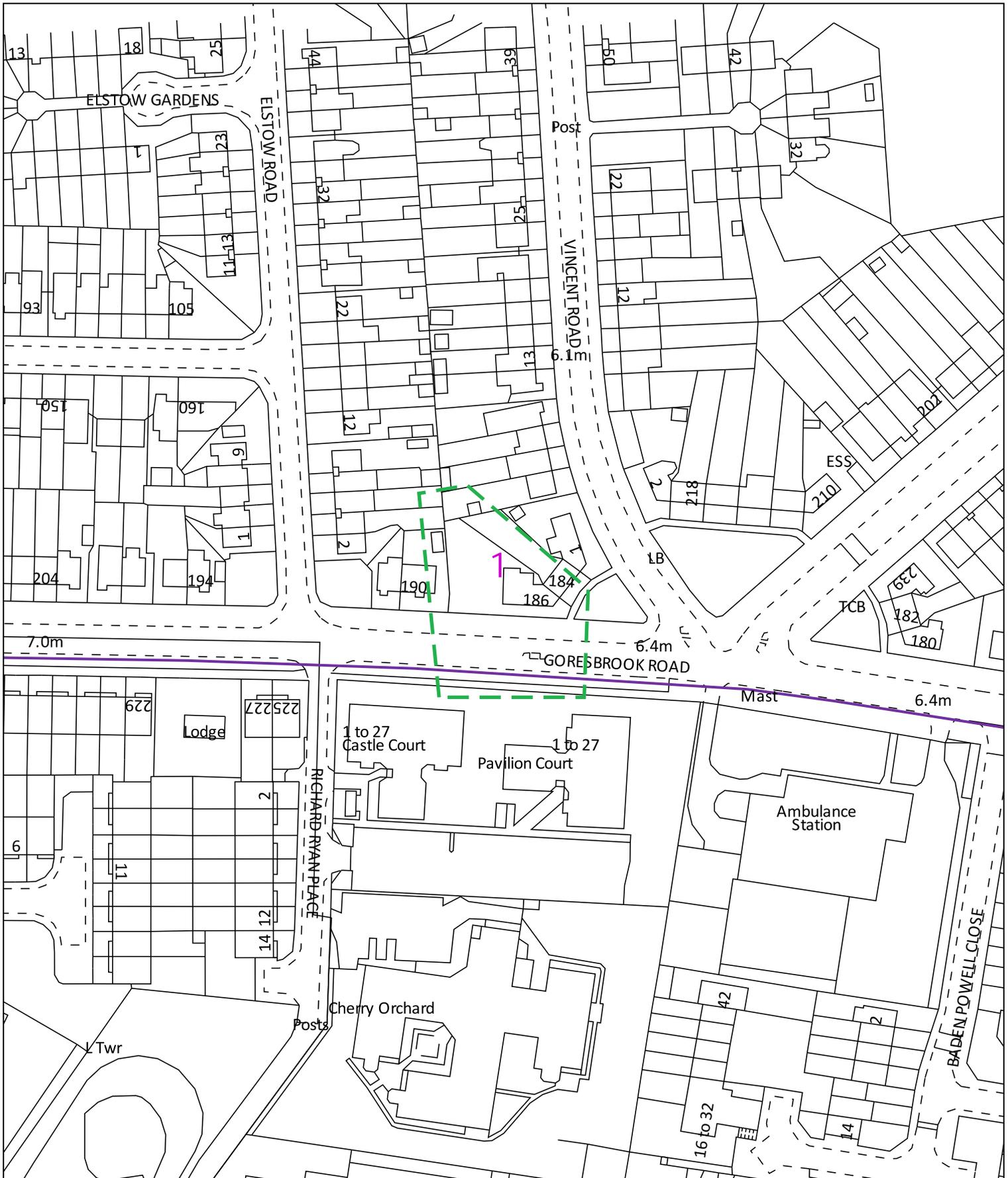
Yours sincerely

**SSE Telecoms Fibre and Records Team**

Address: SSE Telecoms, 4 Penner Road, Havant, Hampshire, PO9 1QH  
Telephone: 023 92 494 923  
Email: [c2telecomsrequests@sse.com](mailto:c2telecomsrequests@sse.com)

**For more information, visit our website:**

<https://ssetelecoms.com/about-sse/our-network/plant-enquiries/>



50m 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.



Date Requested: 04/09/2020  
 Job Reference: 19839101  
 Site Location: 548209 183848  
 Requested by: Mr Max Coetzee  
 Your Scheme/Reference: 421491  
 Scale: 1:1250 (When plotted at A4)

The information on this document is proprietary and shall not be used, copied, reproduced or disclosed in whole or in part without written consent of SSE Enterprise Telecoms. Approximate location only is shown. To determine exact location a trial hole must be dug with a SSE Enterprise Telecoms Supervisor present. SSE Enterprise Telecoms accept no liability for errors or omissions.

SSE Enterprise Telecoms is a trading name of SSE Telecommunications Limited which is a part of the SSE Group.  
 Registered Office:  
 Inveralmond House,  
 200 Dunkeld Road,  
 Perth, PH1 3AQ

SSE Telecoms Underground Route **Emergency Number: 0345 305 3337**



**Verizon**  
Outside Plant Infrastructure Dept,  
Room 3.31  
2-6 St Pancras Way  
London  
NW1 0QG  
United Kingdom  
Tel: +44 (0) 20 7984 2654  
Fax: +44 (0) 20 7984 2632  
E-M: [osp-team@uk.verizon.com](mailto:osp-team@uk.verizon.com)

Dear Sir/Madam,

### **C2 Plant Enquiry**

We have reviewed your proposed plan and have enclosed maps of the areas in which Verizon (Formally known as MCI WorldCom, MFS) has apparatus in the area concerned. Please note these maps are for approximate location only. To determine the exact location a trial hole must be dug using extreme caution.

Where U/G plant is affected and requires rerouting; you must submit draft details of the proposed scheme with a request for a 'C3 Budget Estimate' to email [osp-team@uk.verizon.com](mailto:osp-team@uk.verizon.com). These should be returned to you within 30 working days on receipt of your request.

If you have any further queries, please do not hesitate to call us on the above numbers.

Yours faithfully  
**Plant Protection Officer**

### **C3 Budget Estimates Controller**

**Verizon**  
Room 3.31  
2-6 St Pancras Way  
Camden  
London  
NW1 0QG  
Tel: +44 (0) 20 7984 2654  
Fax: +44 (0) 20 7984 2632

---

**Please Note.** To enable us to process your enquiry as quickly as possible, please ensure that you include a post code and/or an Ordnance Survey Grid Reference. Chambers may also be marked as MCI, W-Com, MFS. Thank you for your co-operation



## Enquirer

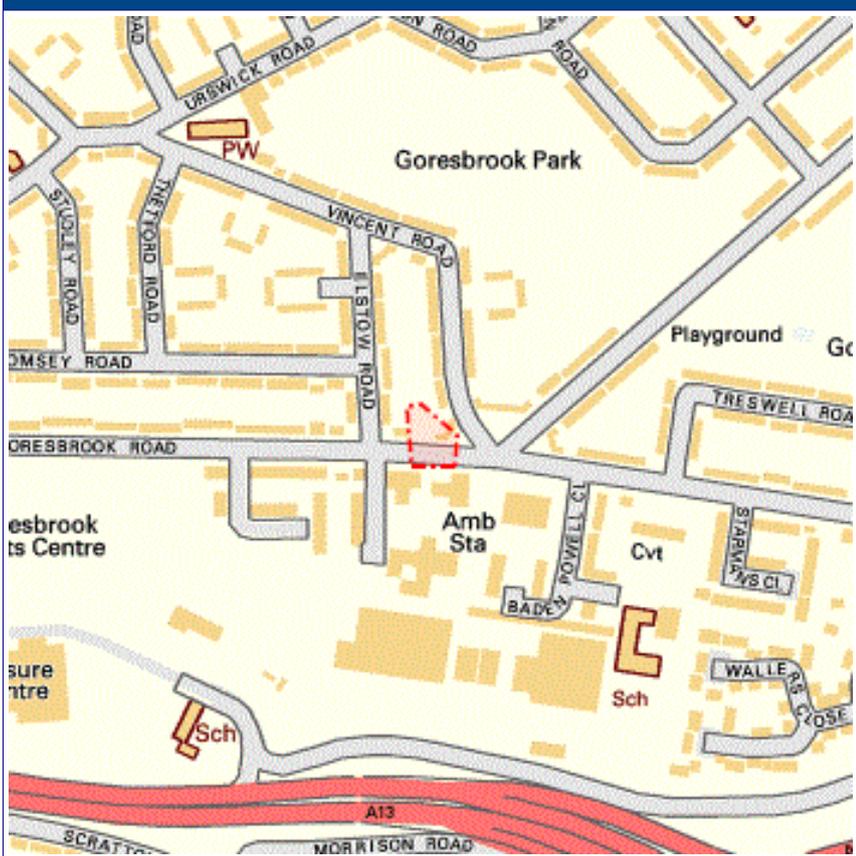
Name	Mr Max Coetzee	Phone	44 (0) 1952 798 679
Company	Apogee	Mobile	Not Supplied
Address	Blount House Hall Court Hall Park Way Telford Shropshire TF3 4NQ		
Email	max.coetzee@apogeeutilityconsultants.co.uk		

## Enquiry Details

Scheme/Reference	421491		
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	1683 metres square
Searched location	RM9 6XS	Work type buffer*	25 metres
Confirmed location	548209 183848		
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.linesearchbeforeudig.co.uk](http://www.linesearchbeforeudig.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 LineSearchbeforeUdig 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](http://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
ESP Utilities Group	01372227560	01372227560	Await response
Essex & Suffolk Water	03702417408	03702417408	Await response
Gtt	07970775310	02070259650	Await response
SSE Enterprise Telecoms	03453053337	03453053337	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	ESSAR
Esso Petroleum Company Limited	Fulcrum Pipelines Limited	Gamma
Gas Networks Ireland (UK)	Gateshead Energy Company	Gigaclear Ltd
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 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](mailto:assetrecords@utilityassets.co.uk)  
**To:** [Max Coetzee](#)  
**Subject:** Re: C2 ENQUIRY REQUEST 421491 Goresbrook Road  
**Date:** 14 September 2020 10:39:10

---

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](mailto:asset.manager@utilityassets.co.uk) quoting a site reference number.

Asset Manager - Utility Assets Ltd

---

**PRECAUTIONS TO BE TAKEN WHEN CARRYING OUT WORK IN THE VICINITY OF UNDERGROUND GAS PIPES**

**ADVICE TO SITE PERSONNEL**

**MANAGEMENT NOTE**

Please ensure that a copy of this note is read by your site management and to your site operatives.

Early consultation with ESP Utilities Group prior to excavation is recommended to obtain the location of plant and precautions to be taken when working nearby.

This Guidance Note should be read in conjunction with the Health and Safety Executive guidance HSG47 "Avoiding danger from underground services".

---

**Introduction**

Damage to ESP Utilities Group's plant can result in uncontrolled gas escapes which may be dangerous. In addition these occurrences can cause expense, disruption of work and inconvenience to the public.

Various materials are used for gas mains and services. Cast Iron, Ductile Iron, Steel and Plastic pipes are the most widely found. Modern Plastic pipes are either bright yellow or orange in colour.

Cast Iron and Ductile Iron water pipes are very similar in appearance to Cast Iron and Ductile Iron gas pipes and if any Cast Iron or Ductile Iron pipe is uncovered, it should be treated as a gas pipe. ESP Utilities Group do not own any metallic gas pipes but their gas network infrastructures may be connected to Cast Iron, Ductile Iron or Steel pipes owned by Distribution Network Operators.

The following general precautions apply to Intermediate Pressure (2-7barg MOP), Medium Pressure (75mbarg-2barg MOP), Low Pressure (up to 75mbarg MOP) and other gas mains and services likely to be encountered in general site works and are referred to within this document as '**pipes**'.

**Locating Gas Pipes**

It should be assumed when working in urban and residential areas that gas mains and services are likely to be present. On request, ESP Utilities Group will give approximate locations of pipes derived from their records. The records do not normally show the position of service pipes but their probable line can be deducted from the gas meter position. ESP Utilities Group's staff will be pleased to assist in the location of gas plant and provide advice on any precautions that may be required. The records and advice are given in good faith but cannot be guaranteed until hand excavation has taken place. Proprietary pipe and cable locators are available although generally these will not locate plastic pipes.

**Safe working Practices**

**To achieve safe working conditions adjacent to gas plant the following must be observed:**

Observe any specific request made by ESP Utilities Group's staff.

Gas pipes must be located by hand digging before mechanical excavation. Once a gas pipe has been located, mechanical excavation must proceed **with care**. A mechanical excavator must not in any case be used within 0.5 metre of a gas pipe and greater safety distances may be advised by ESP Utilities Group depending on the mains maximum operating pressure (MOP).

Where heavy plant may have to cross the line of a gas pipe during construction work, the number of crossing points should be kept to a minimum. Crossing points should be clearly indicated and crossings at other places along the line of the pipe should be prevented.

Where the pipe is not adequately protected by an existing road, crossing points should be suitably reinforced with sleepers, steel plates or a specially constructed reinforced concrete raft as necessary. ESP Utilities Group staff will advise on the type of reinforcement necessary.

No explosives should be used within 30 metres of any gas pipe without prior consultation with ESP Utilities Group.

**ESP Utilities Group must be consulted prior to carrying out excavation work within 10 metres of any above ground gas installation.**

Where it is proposed to carry out piling or boring within 15 metres of any gas pipe, ESP Utilities Group should be consulted prior to the commencement of the works.

Access to gas plant must be maintained at all times during on site works.

### Proximity of Other Plant

A minimum clearance of 300 millimetres (mm) should be allowed between any plant being installed and an existing gas main to facilitate repair, whether the adjacent plant be parallel to or crossing the gas pipe. No apparatus should be laid over and along the line of a gas pipe irrespective of clearance.

No manhole or chambers shall be built over or around a gas pipe and no work should be carried out which results in a reduction of cover or protection over a pipe, without consultation with ESP Utilities Group.

### Support and Backfill

Where excavation of trenches adjacent to any pipe affects its support, the pipe must be supported to the satisfaction of ESP Utilities Group and must not be used as an anchor or support in any way. In some cases, it may be necessary to divert the gas pipe before work commences.

Where a trench is excavated crossing or parallel to the line of the gas pipe, the backfill should be adequately compacted, particularly beneath the pipe, to prevent any settlement which could subsequently cause damage to the pipe.

In special cases it may be necessary to provide permanent support to the gas pipe, before backfilling and reinstatement is carried out. Backfill material adjacent to gas plant must be selected fine material or sand, containing no stones, bricks or lumps of concrete, etc., placed to a minimum depth of 150mm around the pipes and well compacted by hand. No power compaction should take place until 300mm of selected fine fill has been suitably compacted.

If the road construction is in close proximity to the top of the gas pipe, a "cushion" of selected fine material such as sand must be used to prevent the traffic shock being transmitted to the gas pipe. The road construction depth must not be reduced without permission from the local Highway Authority.

No concrete or other hard material must be placed or left under or adjacent to any Cast Iron pipe as this may cause fracture of the pipe at a later date.

Concrete backfill should not be used closer than 300 mm to the pipe.

### Damage to Coating

Where a gas pipe is coated with special wrapping and this is damaged, even to a minor extent ESP Utilities Group must be notified so that repairs can be made to prevent future corrosion and subsequent leakage.

### Welding or "Hot Works"

When welding or other "hot works" involving naked flames are to be carried out in close proximity to gas plant and the presence of gas is suspected, ESP Utilities Group must be contacted before work commences to check the atmosphere. Even when a gas free atmosphere exists care must be taken when carrying out hot works in close proximity to gas plant in order to ensure that no damage occurs.

Particular care must be taken to avoid damage by heat or naked flame to plastic gas pipes or to the protective coating on other gas pipes.

### Leakage from Gas Mains or Services

If damage or leakage is caused or an escape of gas is smelt or suspected the following action should be taken at once:

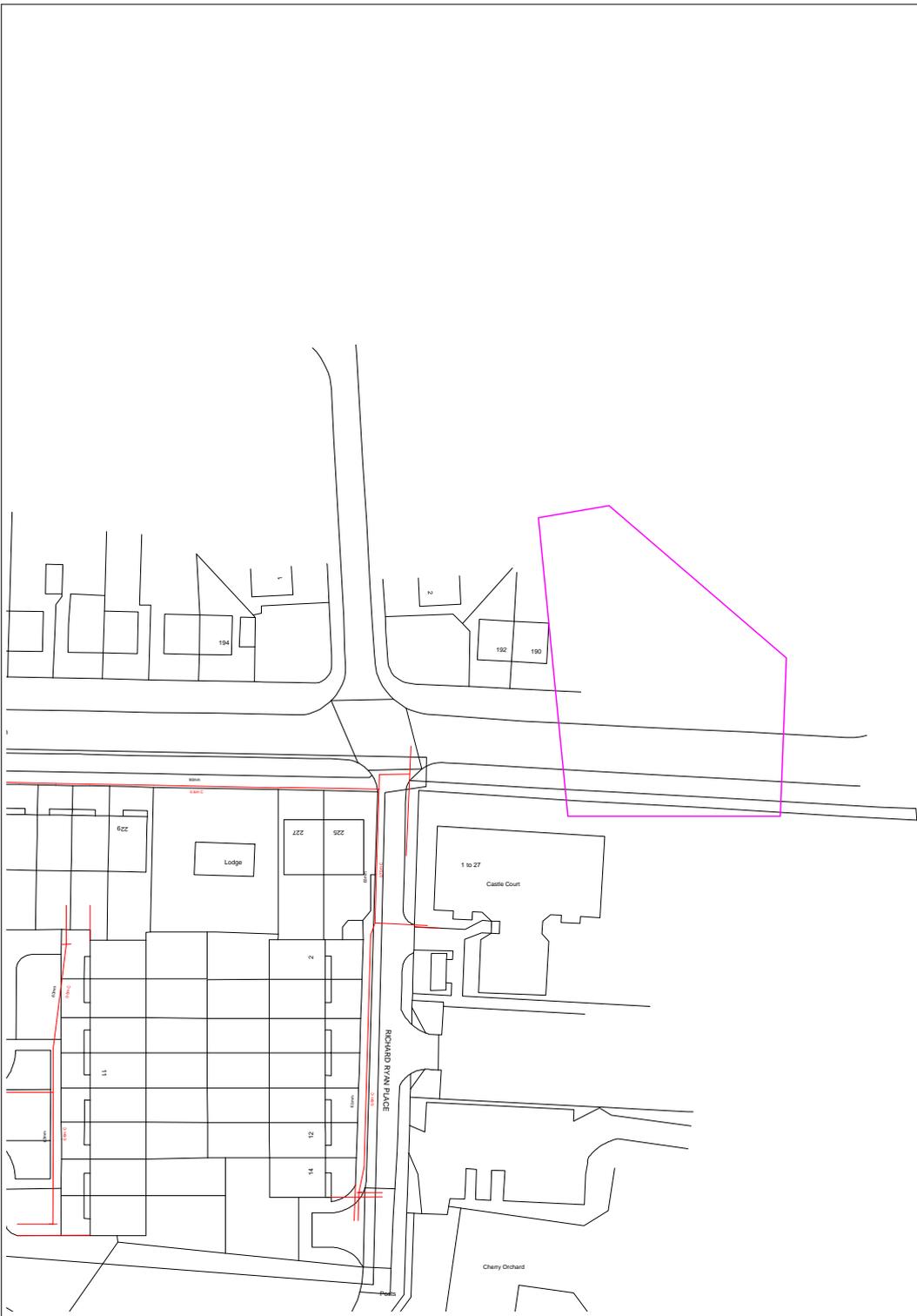
- ❖ Remove all personnel from the immediate vicinity of the escape;
- ❖ Contact the National Gas Emergency Service on: **0800 111 999**;
- ❖ Prevent any approach by the public, prohibit smoking, extinguish all naked flames or other source of ignition for at least 15 metres from the leakage;
- ❖ Assist gas personnel, Police or Fire Service as requested.

**REMEMBER - IF IN DOUBT; SEEK ADVICE FROM ESP UTILITIES GROUP.**

**ESP Utilities Group can be contacted at:**

**Office Address:** Bluebird House, Mole Business Park, Leatherhead, Surrey, KT22 7BA

**Office Tel:** 01372 587 500; **Fax:** 01372 377 996



Date Requested: 04/09/2020

Requested by: Max Coetzee

Job Reference: 19839101

Company: Apogee

Your Scheme/Reference: 421491

**Key for Mains & Service Pipework**



Existing LP mains or services operating up to 75 millibar gauge



Existing MP mains or services operating between 75 millibar and 2 bar gauge



Existing IP mains or services operating between 2 bar and 7 bar gauge

Whilst ESP Utilities Group Ltd (ESP) try to ensure the asset information we provide is accurate, the information is provided Without Prejudice and ESP accept no liability for claims arising from any inaccuracy, omissions or errors contained in this response. The actual position of underground services must be verified and established on site before any mechanical plant is used. Authorities and contractors will be held liable for the full cost of repairs to ESP apparatus and all claims made against them by Third parties as a result of any interference or damage.

REPRODUCED FROM THE ORDNANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF HER MAJESTY'S STATIONARY OFFICE © CROWN COPYRIGHT RESERVED.

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**UTILITIES GROUP**

ESP Utilities Group Ltd  
 Bluebird House  
 Mole Business Park  
 Leatherhead  
 Surrey  
 KT22 7BA  
 Phone: 01372 587500  
 Email: PlantResponses@espug.com

Dig Sites:

Area Line

Approx scale on A4 paper: 1:1000  
 (excluding Overview map)

**From:** [Plant Enquiries](#)  
**To:** [Max Coetzee](#)  
**Subject:** RE: C2 ENQUIRY REQUEST 421491 Goresbrook Road  
**Date:** 07 September 2020 15:15:33  
**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](mailto:plantenquiries@lastmile-uk.com)

Regards

---

**From:** Max Coetzee <max.coetzee@apogeeutilityconsultants.co.uk>  
**Sent:** 04 September 2020 15:44  
**To:** Plant Enquiries <plantenquiries@lastmile-uk.com>  
**Subject:** C2 ENQUIRY REQUEST 421491 Goresbrook Road

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: 421491  
Location of Works: Goresbrook Road  
Postcode: RM9 6XS  
O.S. Grid Ref.: 548215, 183860  
Road No / Street Name: Elstow Road  
From: Vincent Road  
To: Richard Ryan Place  
Description of Works: Utility Works  
Expected Start Date: 02<sup>nd</sup> 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

<p><b>Head Office</b> CityFibre Holdings Ltd 15 Bedford Street, London WC2E 9HE</p> <p>Tel: 0845 293 0774 Web: www.cityfibre.com</p>	<p><b>Asset Office</b> CityFibre Holdings Ltd, Rutherford House, Birchwood, Warrington, WA3 6ZH</p> <p>Email: asset.team@cityfibre.com</p>
--	--

**Disclaimer:**

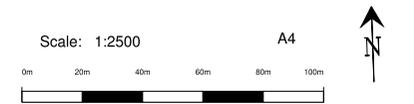
Information shown on this plan is for general guidance only. No warranty is made as to its accuracy. This plan must not be solely relied upon in the event of excavation or other works being carried out in the vicinity of Cityfibre plant. No liability of any kind is accepted by Cityfibre, its agents or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



**From:** [Plantenquiries](#)  
**To:** [Max Coetzee](#)  
**Subject:** RE: C2 ENQUIRY REQUEST 421491 Goresbrook Road  
**Date:** 09 September 2020 11:29:40  
**Attachments:** [image002.png](#)  
[image003.png](#)  
[image004.png](#)

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**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 15:45  
**To:** Plantenquiries <plantenquiries@catelecomuk.com>  
**Subject:** C2 ENQUIRY REQUEST 421491 Goresbrook Road

Dear Sir or Madam,

**From:** [plantenquiries@psgservices.co.uk](mailto:plantenquiries@psgservices.co.uk)  
**To:** [Max Coetzee](#)  
**Subject:** Scheme Number: 421491  
**Date:** 09 September 2020 09:39:19

---

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](mailto: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](mailto: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](mailto:plantenquiries@psgservices.co.uk)



Telecommunications Survey, Planning, Engineering & GIS Services

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=====



Virus-free. [www.avg.com](http://www.avg.com)

**From:** [Plantenquiries](#)  
**To:** [Max Coetzee](#)  
**Subject:** RE: E09-20-1350 C2 ENQUIRY REQUEST 421491 Goresbrook Road  
**Date:** 09 September 2020 09:49:40  
**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](mailto:plantenquiries@instalcom.co.uk)  
Web: <http://www.instalcom.co.uk>



---

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

**From:** [Nraswa](#)  
**To:** [Max Coetzee](#)  
**Subject:** RE: C2 ENQUIRY REQUEST 421491 Goresbrook Road  
**Date:** 04 September 2020 16:00:34  
**Attachments:** [image002.png](#)  
[image003.png](#)

---

Hello,

**Location / Ref no :**

Scheme Number: 421491  
Location of Works: Goresbrook Road  
Postcode: RM9 6XS  
O.S. Grid Ref.: 548215, 183860  
Road No / Street Name: Elstow Road

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 \[Tony.Parker@Kcom.com\]\(mailto:Tony.Parker@Kcom.com\)](#)**

Kind Regards

**Pete McSherry**

*NRSAWA Planner – Field Engineering*  
*Mobile/Cell: +44 (0) 748 453 9186*  
*Email: [pete.mcsherry@kcom.com](mailto:pete.mcsherry@kcom.com)*  
*Web: [www.kcom.com](http://www.kcom.com)*

**KCOM**

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KCOM Commercial in Confidence

**From:** Max Coetzee <[max.coetzee@apogeeutilityconsultants.co.uk](mailto:max.coetzee@apogeeutilityconsultants.co.uk)>  
**Sent:** 04 September 2020 15:46  
**To:** Nraswa <[nraswa@kcom.com](mailto:nraswa@kcom.com)>  
**Subject:** C2 ENQUIRY REQUEST 421491 Goresbrook Road

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:** [SOTA Plant Enquiries](#)  
**To:** [Max Coetzee](#)  
**Subject:** RE: S09-20- 0804 C2 ENQUIRY REQUEST 421491 Goresbrook Road  
**Date:** 10 September 2020 21:35:29  
**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

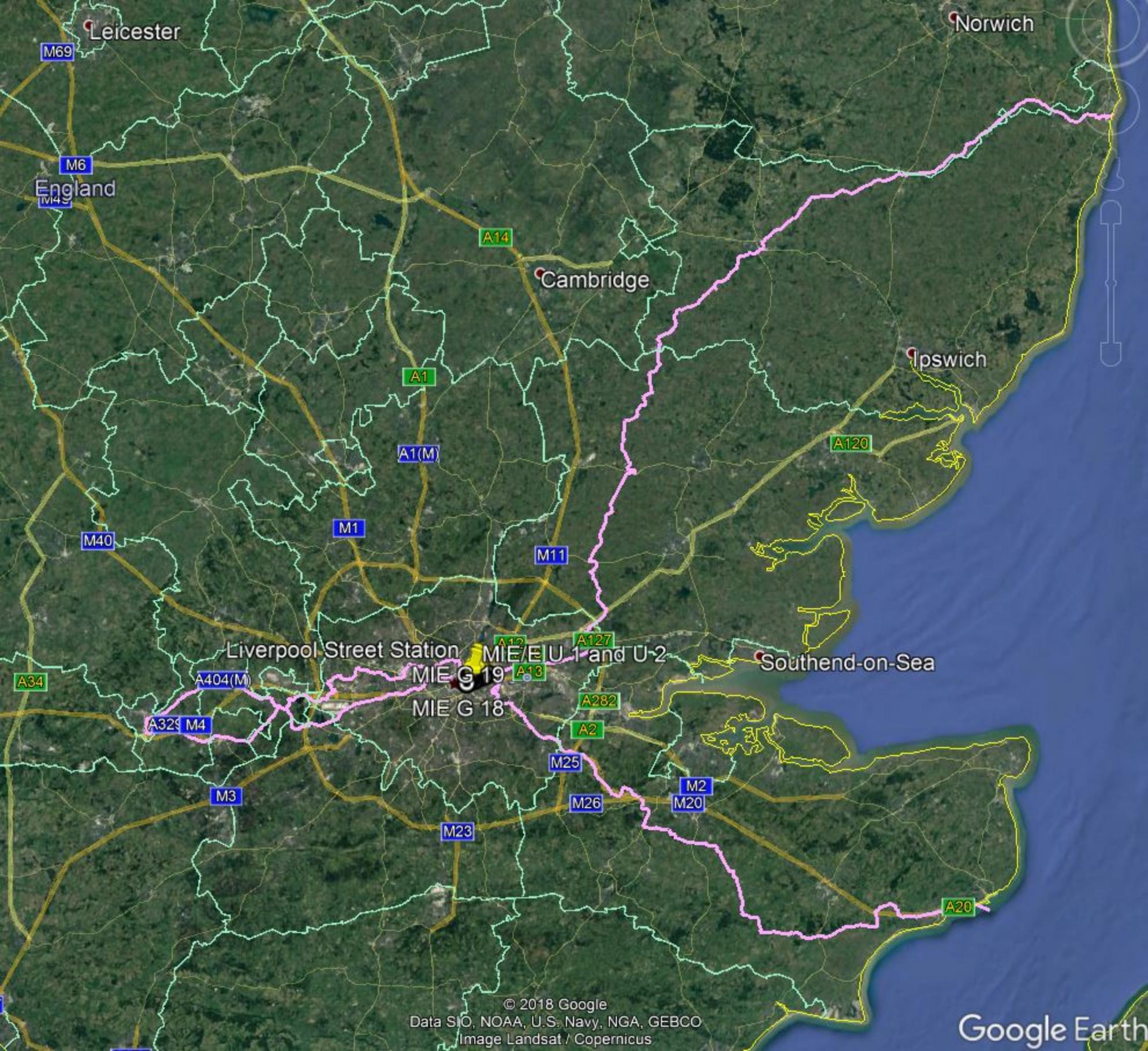
Plant Enquiries Dept.  
Instalcom Limited  
Borehamwood Ind. Park  
Rowley Lane  
Borehamwood  
WD6 5PZ

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



---

**From:** Max Coetzee <max.coetzee@apogeeutilityconsultants.co.uk>  
**Sent:** 04 September 2020 15:46  
**To:** SOTA Plant Enquiries <SOTA.PlantEnquiries@instalcom.co.uk>



Leicester

Norwich

M69

M6

M4

A14

Cambridge

A1

Ipswich

A120

A1(M)

M1

M11

M40

Liverpool Street Station MIE/EU 1 and U-2

Southend-on-Sea

MIE G 19

A34

A404(M)

A12

A127

A13

MIE G 18

A282

A32

M4

A2

M25

M3

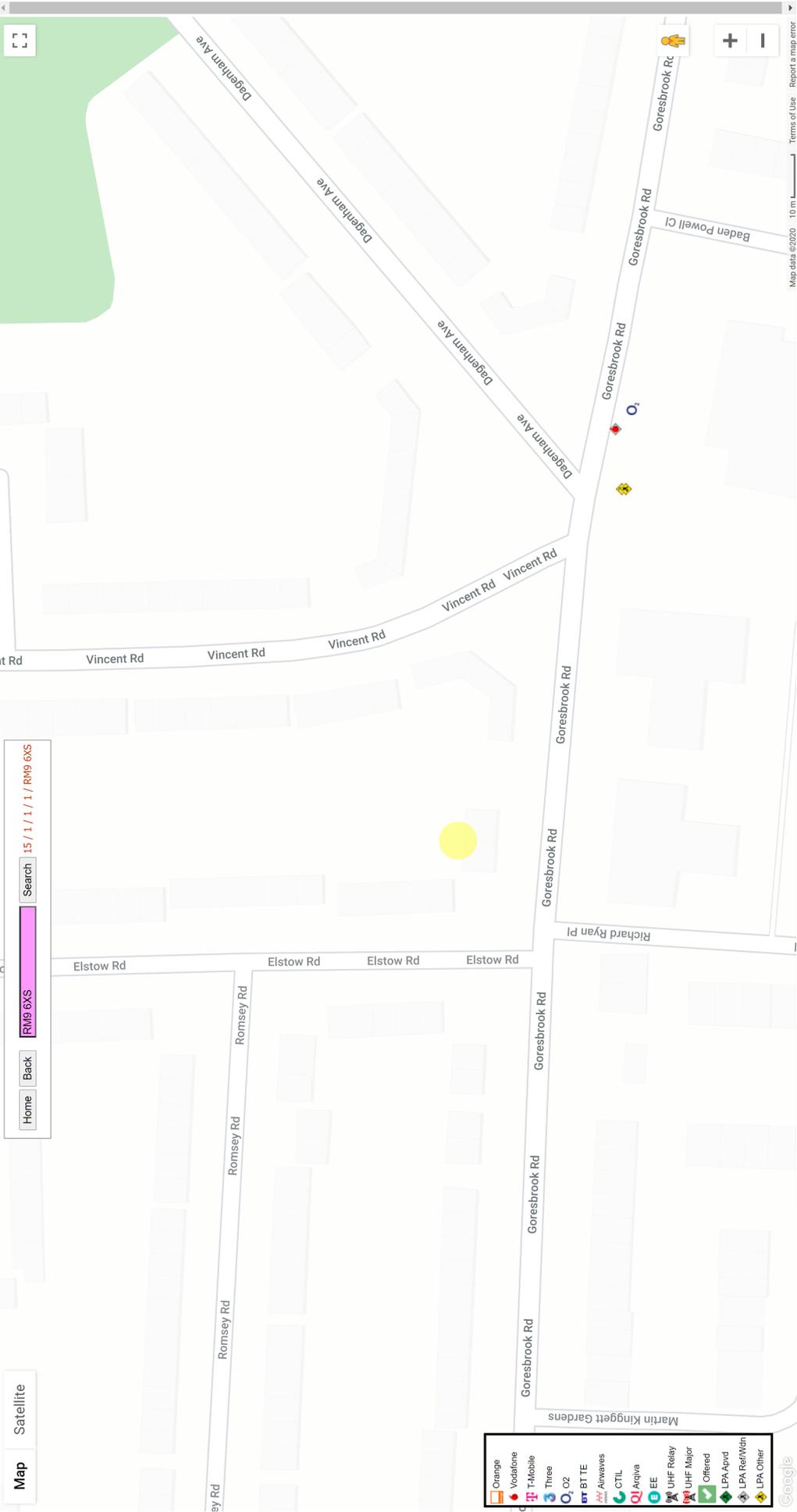
M26

M2

M20

M23

A20



**From:** [TM Plant Enquiries](#)  
**To:** [Max Coetzee](#)  
**Subject:** Re: C2 ENQUIRY REQUEST 421491 Goresbrook Road  
**Date:** 07 September 2020 14:56:38  
**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](mailto:plantenquiries@trafficmaster.co.uk)

---

**From:** Max Coetzee <max.coetzee@apogeeutilityconsultants.co.uk>  
**Sent:** Friday, September 4, 2020 2:46 PM  
**To:** TM Plant Enquiries <plantenquiries@trafficmaster.co.uk>  
**Subject:** C2 ENQUIRY REQUEST 421491 Goresbrook Road

**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: 421491  
Location of Works: Goresbrook Road  
Postcode: RM9 6XS  
O.S. Grid Ref.: 548215, 183860  
Road No / Street Name: Elstow Road  
From: Vincent Road  
To: Richard Ryan Place  
Description of Works: Utility Works

**From:** [Location Enquiries](#)  
**To:** [Max Coetzee](#)  
**Subject:** RE: C2 ENQUIRY REQUEST 421491 Goresbrook Road  
**Date:** 07 September 2020 12:34:46  
**Attachments:** [image001.png](#)

---

Max

Thank you for your enquiry.

I can confirm that London Underground/DLR has no assets within 50 metres of your site as shown on the plan you provided.

Kind regards

**Shahina Inayathusein MIAM MAPM**  
Safeguarding Engineer (LU+DLR)  
Infrastructure Protection - TfL Engineering  
Email: [locationenquiries@tube.tfl.gov.uk](mailto:locationenquiries@tube.tfl.gov.uk)

Find out more about Infrastructure Protection - <https://youtu.be/0hGoJMTBOEg>

---

**From:** Max Coetzee <[max.coetzee@apogeeutilityconsultants.co.uk](mailto:max.coetzee@apogeeutilityconsultants.co.uk)>  
**Sent:** 04 September 2020 15:47  
**To:** Location Enquiries <[SMBLocationEnquiries@tfl.gov.uk](mailto:SMBLocationEnquiries@tfl.gov.uk)>  
**Subject:** C2 ENQUIRY REQUEST 421491 Goresbrook Road

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: 421491  
Location of Works: Goresbrook Road  
Postcode: RM9 6XS  
O.S. Grid Ref.: 548215, 183860  
Road No / Street Name: Elstow Road  
From: Vincent Road  
To: Richard Ryan Place  
Description of Works: Utility Works  
Expected Start Date: 02<sup>nd</sup> 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

**From:** [LULHVpowerassets@tfl.gov.uk](mailto:LULHVpowerassets@tfl.gov.uk)  
**To:** [Max Coetzee](#)  
**Subject:** NRSWA Request Response - Your Reference 421491  
**Date:** 04 September 2020 19:25:01

---

Our Ref: **V6MXMT40**  
Your Ref: **421491**  
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: Goresbrook Road**  
**Postcode: RM9 6XS**  
**O.S. Grid Ref.: 548215, 183860**  
**Road No / Street Name: Elstow Road**  
**From: Vincent Road**  
**To: Richard Ryan Place**

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](mailto: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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**From:** Fuller, Dain on behalf of OP Buried Services Enquiries  
**To:** Max Coetzee  
**Subject:** RE: C2 ENQUIRY REQUEST 421491 Goresbrook Road  
**Date:** 04 September 2020 16:09:47  
**Attachments:** imaae003.png

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](mailto:opburiedservicesenquiries@networkrail.co.uk).

Regards,

**Dain Fuller**  
Worksite Survey Manager



**Worksite Survey | Asset Information Services**  
National Records Centre | Auda Road | York YO30 4US  
**W:** [www.networkrail.co.uk](http://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 15:46  
**To:** OP Buried Services Enquiries <OPBuriedServicesEnquiries@networkrail.co.uk>  
**Subject:** C2 ENQUIRY REQUEST 421491 Goresbrook Road

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 (Diversions Works)'  
My client is considering a scheme involving major highway works as detailed below:

Scheme Number: 421491  
Location of Works: Goresbrook Road  
Postcode: RM9 6XS  
O.S. Grid Ref.: 548215, 183860  
Road No / Street Name: Elstow Road  
From: Vincent Road  
To: Richard Ryan Place  
Description of Works: Utility Works  
Expected Start Date: 02<sup>nd</sup> 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  
Apogee Property & Utility Consultants  
**Blount House**  
Hall Court  
Hall Park Way  
Telford, TF3 4NQ  
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Outline the property boundary

groundstability.com/public/web/log-order?execution=e64

Please continue to draw the legal boundary of the property, and make sure you get the street names and the property boundary. To see an example of how to draw your boundary please click [here](#).

If ordering a follow up report for further information on subsidence claims or mine entries, please make sure the boundary is exactly the same as outlined in the previous report.

If you would like us to draw the boundary for you, please return to the previous screen and select for the Coal Authority to draw your boundary.

Property address  
186 GORESBROOK ROAD, DAGENHAM, BARKING AND DAGENHAM, RM9 6XS



Cancel Previous Next

Screen reference: MRP104

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Recommended actions

groundstability.com/public/web/log-order?execution=e656

 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

FAQs [Access to information](#) [Our reports](#) [Accessibility](#) [Terms and conditions](#) [Cancellation policy](#) [Privacy policy](#)

 The Coal Authority  
The Coal Authority, 200 Lichfield Lane, Mansfield, Nottinghamshire NG18 4RG

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# 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.