



Electricity





Mr. Stephen Sawyer Technics Group Technics House Merrow Business Park Guildford Surrey GU4 7WA

> Our Ref: 2017/2254048 Your Ref: GRS03898 10/05/2017

Dear Sir/Madam

23A, RAVENSHAW STREET, LONDON, NW6 1NP

Thank you for your letter of 09/05/2017 in which you asked if there are any electric lines and/or electrical plant belonging to UK Power Networks (LPN) plc ("UK Power Networks") within the land identified by your enquiry.

I enclose a copy of UK Power Networks record of its electric lines and/or electrical plant at the site identified by your enquiry. If the records provided do not relate to the land to which you had intended to refer please resubmit your enquiry.

Should your excavation affect any of 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.

This information is made available to you on the terms set out below.

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 <u>NOT</u> 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 <u>NOT</u> 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 <u>NOT</u> 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. <u>Trial holes</u> <u>should be dug by hand only</u>.

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 an 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 electric 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 avail yourself of this service, in the first instance please telephone: 0845 6014516 between 08:30 and 17:00 Monday to Friday, Public and bank holidays excepted.

- 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 telephone at the number below providing:
 - your name, address and telephone number; and
 - the date, time and place at which such damage was caused; and
 - a description of the electric line and/or electrical plant to which damage was caused; and
 - the name of the person whom it appears to you is responsible for that damage; and
 - the nature of the damage

In the East of England or London 0800 780078 (24 Hours).

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.

IF YOU DO **NOT** ACCEPT AND/OR **DO NOT** UNDERSTAND THE TERMS OF USE SET OUT IN PARAGRAPHS 1 TO 12 INCLUSIVE ABOVE YOU MUST NOT USE THE PLANS AND RETURN THEM TO ME.

I would remind you that work adjacent to electric lines and/or electrical plant represents a serious risk to health and safety and as such should feature amongst the items you have assessed in your workplace risk assessment and method statement.

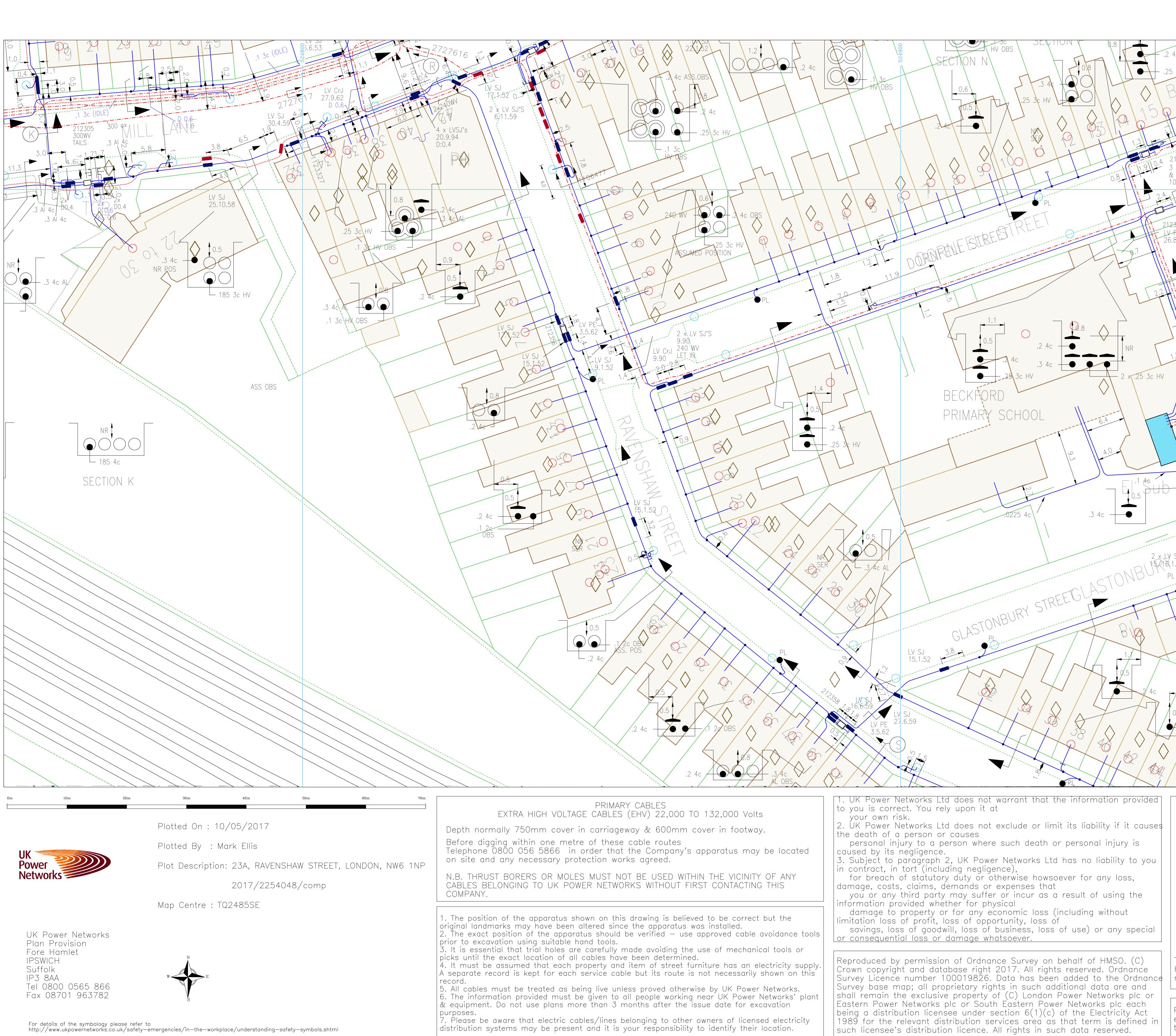
I shall be pleased to supply you with further assistance if you require it.

Yours sincerely M. Ellis

Mark Ellis - Telephone: 0800 0565 866 Plan Provision

UK Power Networks, Plan Provision, Fore Hamlet, Ipswich, IP3 8AA. Tel: 0800 0565866. Fax: 0870 1963782.

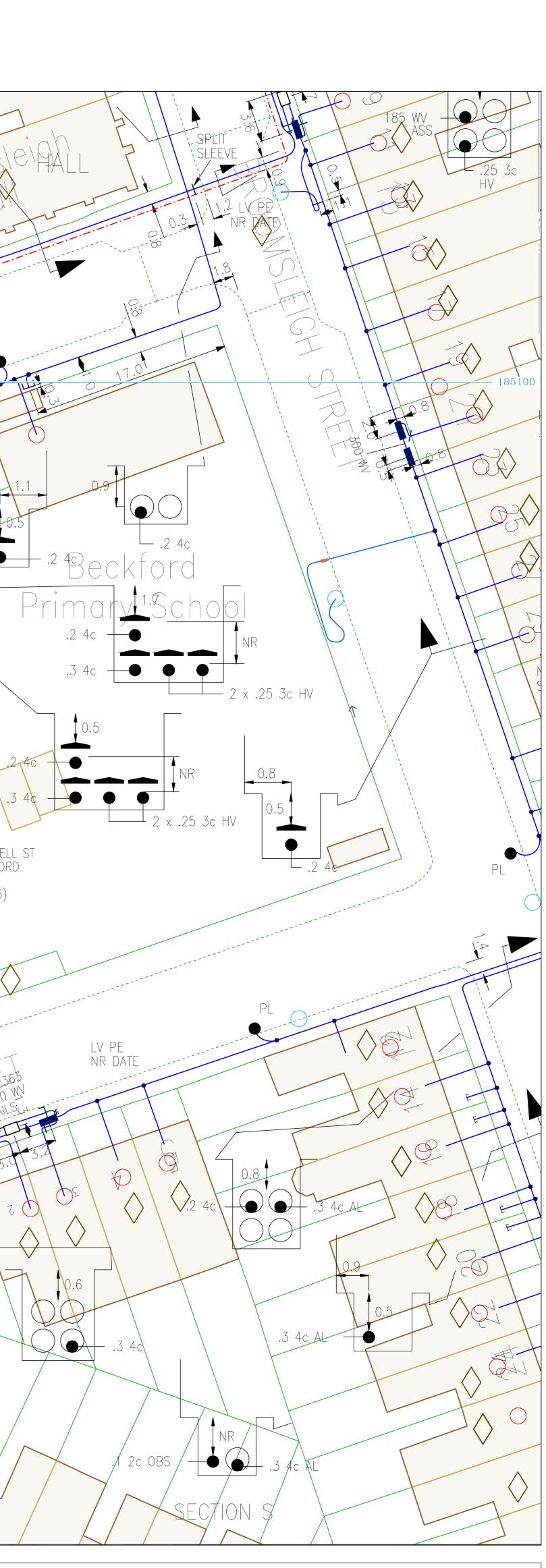
UK Power Networks Registered in England and Wales Registered No 7290590. Registered office: Newington House, 237 Southwark Bridge Road London, SE1 6NP.



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	3. Subject to in contract, in for breach damage, costs you or any information pr	paragraph 2 tort (includ of statutory s, claims, de third party ovided wheth	ing negligence duty or other mands or exp may suffer or	e), wise howsoe benses that incur as a al	ever for any result of us	loss, sing the	start the e 2) Do have 3) Mark ou 4) Do not 5) Use spo 6) Never c
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such licensee's distribution licence. All rights in such data reserved.

Please be aware that electric lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.



ADVICE TO CONTRACTORS ON AVOIDING DANGER FROM BURIED ELECTRICITY CABLES.

ve cable drawings with you on site and check them before you excavation. ve a cable locator tool on site and use it to help you. out the location of electricity cables. It use a mechanical excavator within 0.5m of electricity cables. bades and shovels in preference to other tools. disturb electricity cables and joints or their protective covers. IF IN DOUBT - ASK! PHONE 0800 056 5866 EMERGENCY – If you damage a cable or line Phone 0800 780 0780 (24hrs) URGENTLY

sic safety precautions are explained in detail in the HSE booklet. Avoiding Danger from Underground Services, a copy of which btained from your supervisor or HMSO.



Network Records NetMAP Symbols Booklet - London

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

Version 1.2

Released October 2010

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

Index:-

Page no:

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Guidance notes.

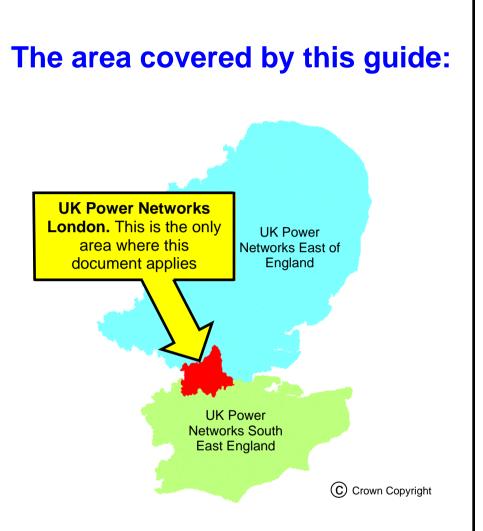
Important notice:

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

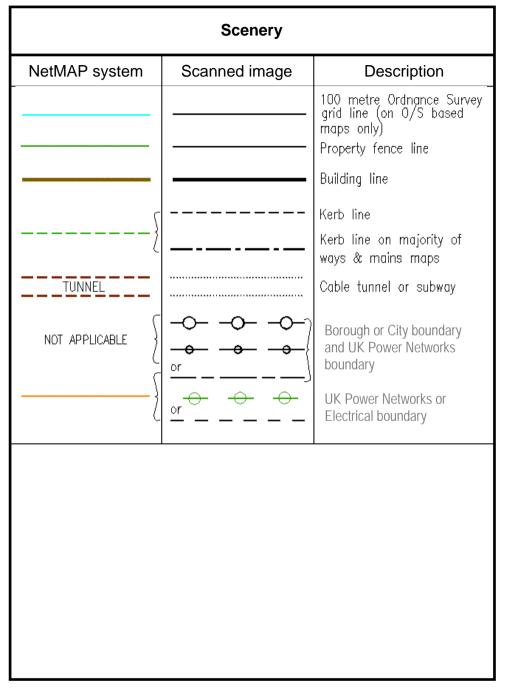
- The position of apparatus shown on NetMAP is believed to be correct, but the original landmarks may have altered since the apparatus was installed.
- It must be assumed that there is at least one service to each property, lamp column, street sign etc. A separate record may be available.
- When excavations 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



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

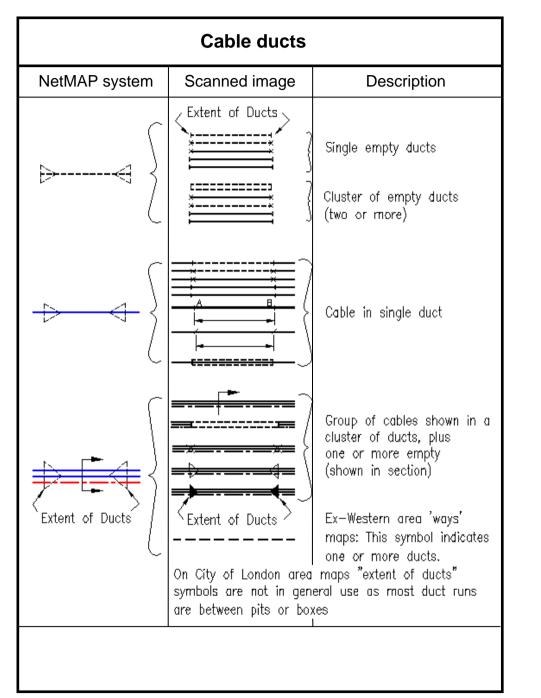
Scenery for UK Power Networks use only - boxed in red				
NetMAP system	Scanned image	Description		
	Not applicable	Nature - Local Nature Reserve (only visible to UK Power Networks and their immediate contractors)		
	Not applicable	Nature - National Nature Reserve (only visible to UK Power Networks and 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		
NetMAP system	Scanned image	Description
EHY CABLE Solid EHY CABLE Gas EHY CABLE Oil Cable stop Cable stop Shallow	—— EHV Coble Route 259 Not applicable —— 5—— 5—— 5—— 5——	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
		1

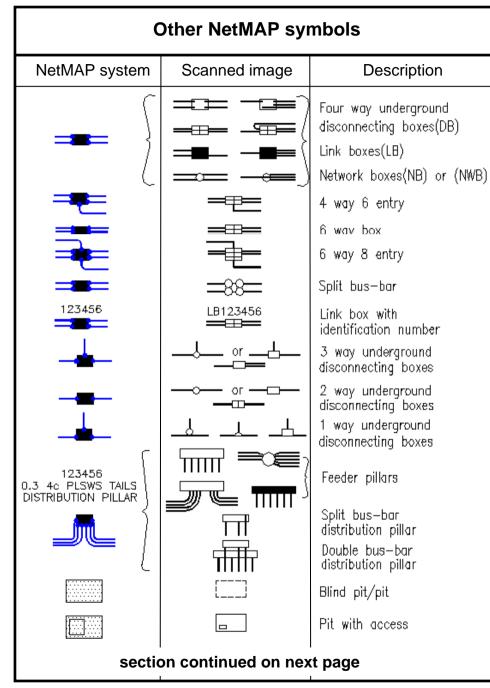
Secondary distribution cables				
NetMAP system	Scanned image	Description		
(20kV) (11kV) (6.6kV)	3 (AL) ³ / ₆ 	HV cable (up to 20kV) 3 phase LV cable (230V or 400/230V) 1 or 2 phase LV cable (230V or 400/230V) Pilot or Telephone cable, often not shown in plan if running with other cables Fibre-optic cable Earth cable HV or LV cable in duct Duct route(s) not containing live cables		

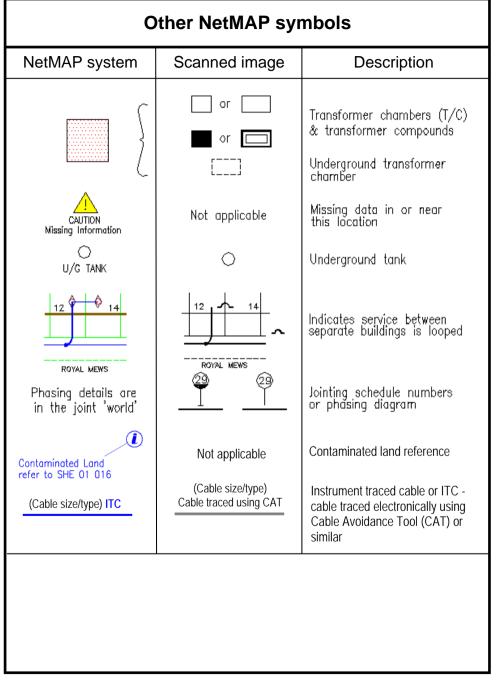
Cable terminology				
NetMAP system	Scanned image	Description		
PL PLST or PLSW PLSTS PLSTS PLSWS PLSW PLS PLST or PLSW PLST PLST PLST PLSW AI Cu WV CS PVC EPR XLPE SOL ax cx	PL PLS PLA PLTS PLDT PLWS PLBW LC & H LC & A LC & BA DSTA STA SWA AI Cu WV CS PVC EPR XLPE SOLIDAL TRIPLEX TRIPLEX	Paper Lead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

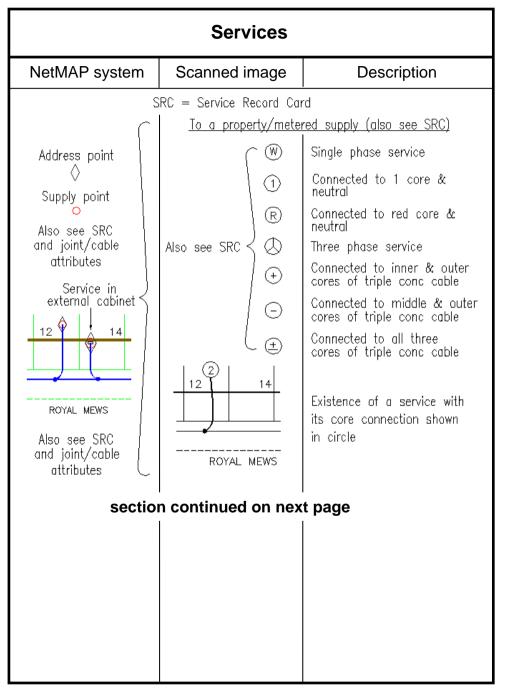
Cable size abbreviations				
NetMAP system	Scanned image	Description		
1c c/c t/c 4c 3c CNE	Ус % Геог T/сс % % (см)	Single core. Concentric cores Triple concentric cores Four cores Three cores and concentric neutral — not of the Waveconal type		
2c s/c 3c DC P Pr	% (or Tw) % % DC P Pr	Two cores (or twin) Split concentric cores Three cores Direct current Pilot Number of telephone pairs		

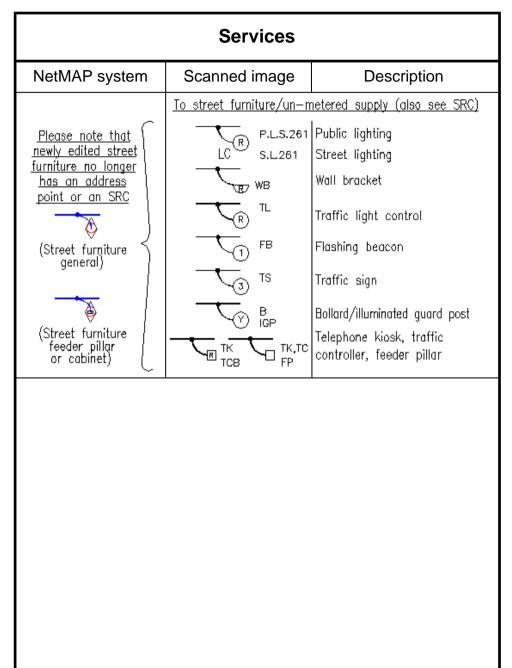


Other NetMAP symbols				
NetMAP system	Scanned image	Description		
0.3 4c AL PLSWS (Details also in cable attributes and/or section)	.3%(59)	Cable size (and year laid)		
4		Cable capped end		
	se Pe	Cable pressure (or pot) end or signal end		
	─── ₽⁄ ^E ── ₽ ^E	Pressure/pot end & earth cable/electrode		
	+ + E	Earth rod (vertical) Earth rod (horizontal) Earth plate Earth plate or end		
MAIN SERV		Bottle or trouser joint or combined crutch & pressure end - (CPE)		
		Straight joints		
		Tee joints Crutch (or spur) joints (CJ) straight & crutch joints combined (S&CJ)		
UT (Disconnected universal tee)		Double crutch (or spur) joint Sleeve		
	n continued on next	page		





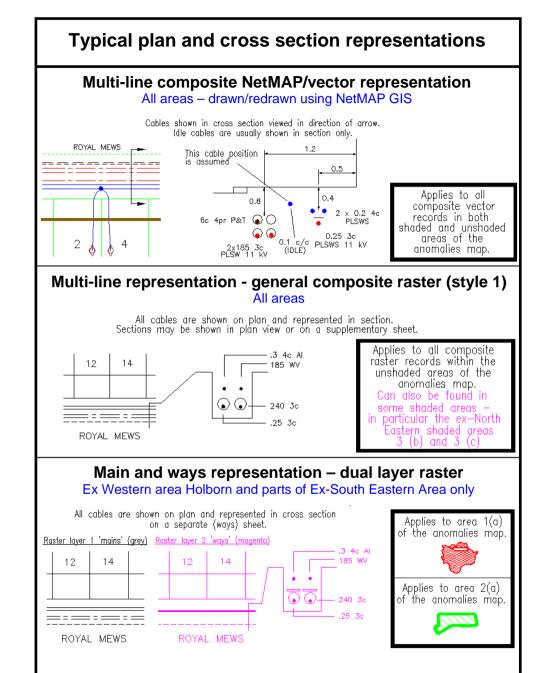


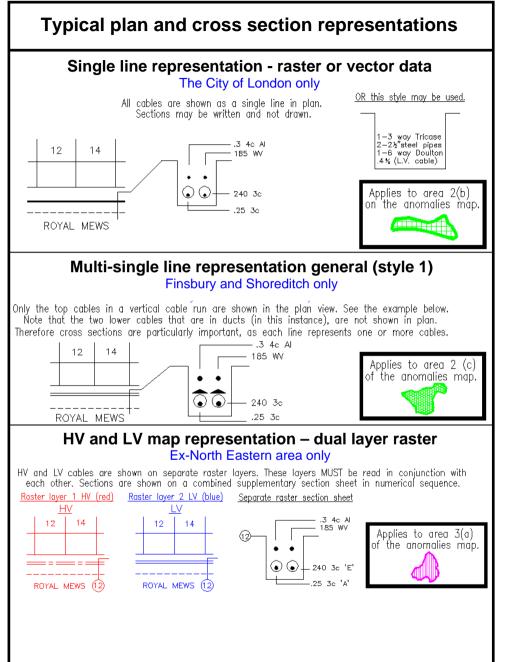


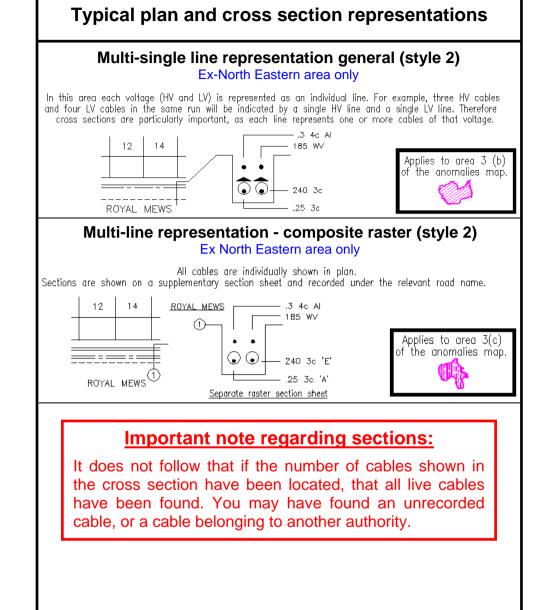
Symbols used in cross sections					
NetMAP system	Scanned image	Description			
•	• •	Cable laid direct			
۲	۵ ۵	Cable laid in duct			
⊗	$\oslash \otimes$	Blocked duct (sometimes used for unidentified cables)			
0	$\circ \circ$	Single earthenware duct			
◯ 2¥" S	0	Single steel pipe			
		Square cable duct			
00	88	Group of circular ducts			
83	88	Group of circular ducts (Sykes)			
		Group of square ducts (Doulton)			
C	ᄑᅋ ^て ᄆ᠊ᢦ᠊	Cable trough			
	000	Bitumen casing (Crompton)			
L	(•••)	Bitumen filled iron trough (Trunks)			
\otimes	8	Bitumen casing (Tri-case)			
sectio	n continued on nex	kt page			

Symbols used in cross sections NetMAP system Scanned image Description Protective slab Tiles. \frown Concrete slabs Steel plate Plastic tile tape — т/т Timber Timber 👝 777

NetMAP systemScanned imageDescriptionEWE.W.D(s) or EW.Earthenware ductsFF.P or F or F.DFibre ductAASB or AAsbestosPPPlastic or pitch fibreSS.P or SSteelCC.I or C or C.I.PCast ironWIW.IWrought iron pipeFF or F.DFibre ductPPPlastic cipital ci
F F.P or F or F.D Fibre duct A ASB or A Asbestos P 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
Left blank – means NR







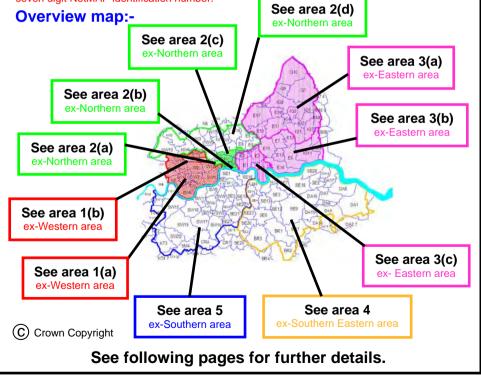
Regional NetMAP Anomalies - general overview:

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

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

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

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



Region 1 ex-Western area

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

Region 1(a) (hatched)

Mains and ways representation:

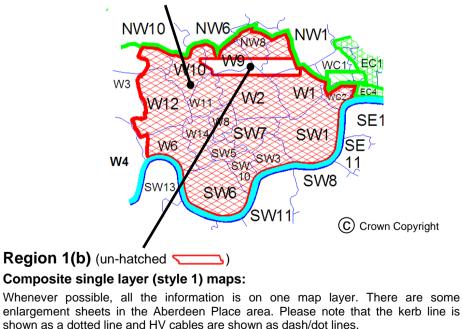
This system consists of two maps layers for the same area.

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

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

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

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



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:

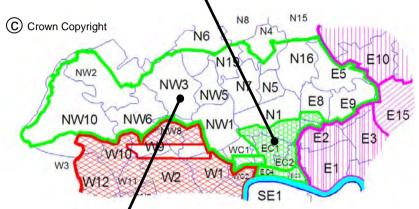
Whenever possible, all the information is on one map layer .One line can represent any number of cables or ducts. It is therefore very important to use cross sections. In some cross sections details may be written and not drawn. In complex and redrawn areas, some detail may be drawn using multi-line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

Region 2(c) (hatched 1)



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.**



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

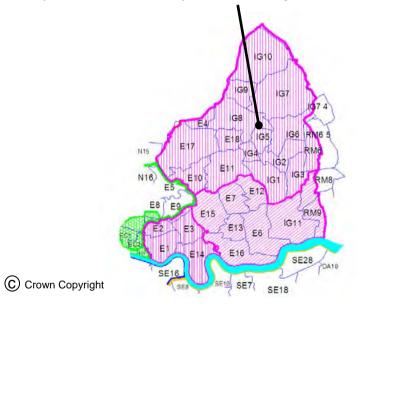
Separate HV and LV representation maps:

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.

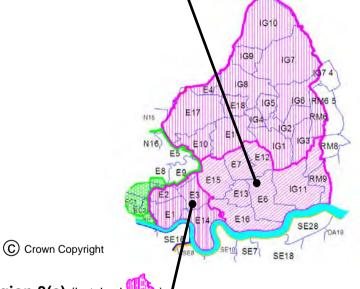
It is important that all these maps are read in conjunction with each other.



Region 3(b) (hatched)



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 multisingle 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).

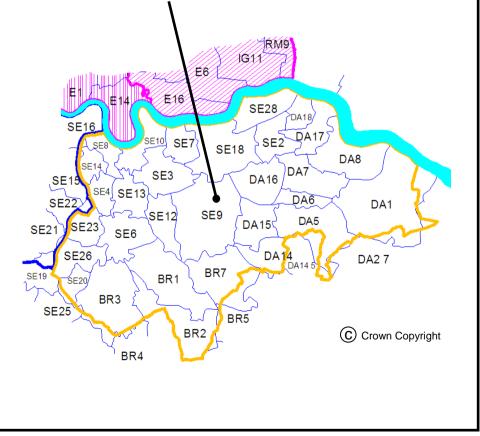
Region 4 ex-South Eastern area

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.



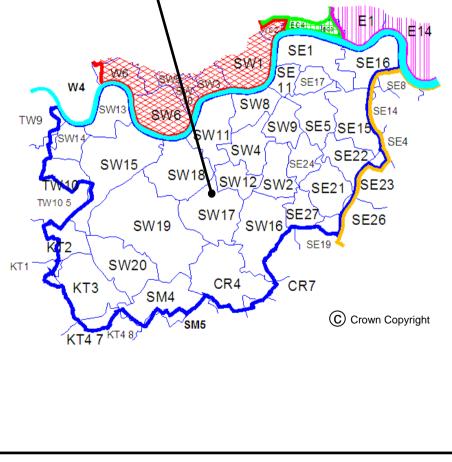
Region 5 ex-Southern area

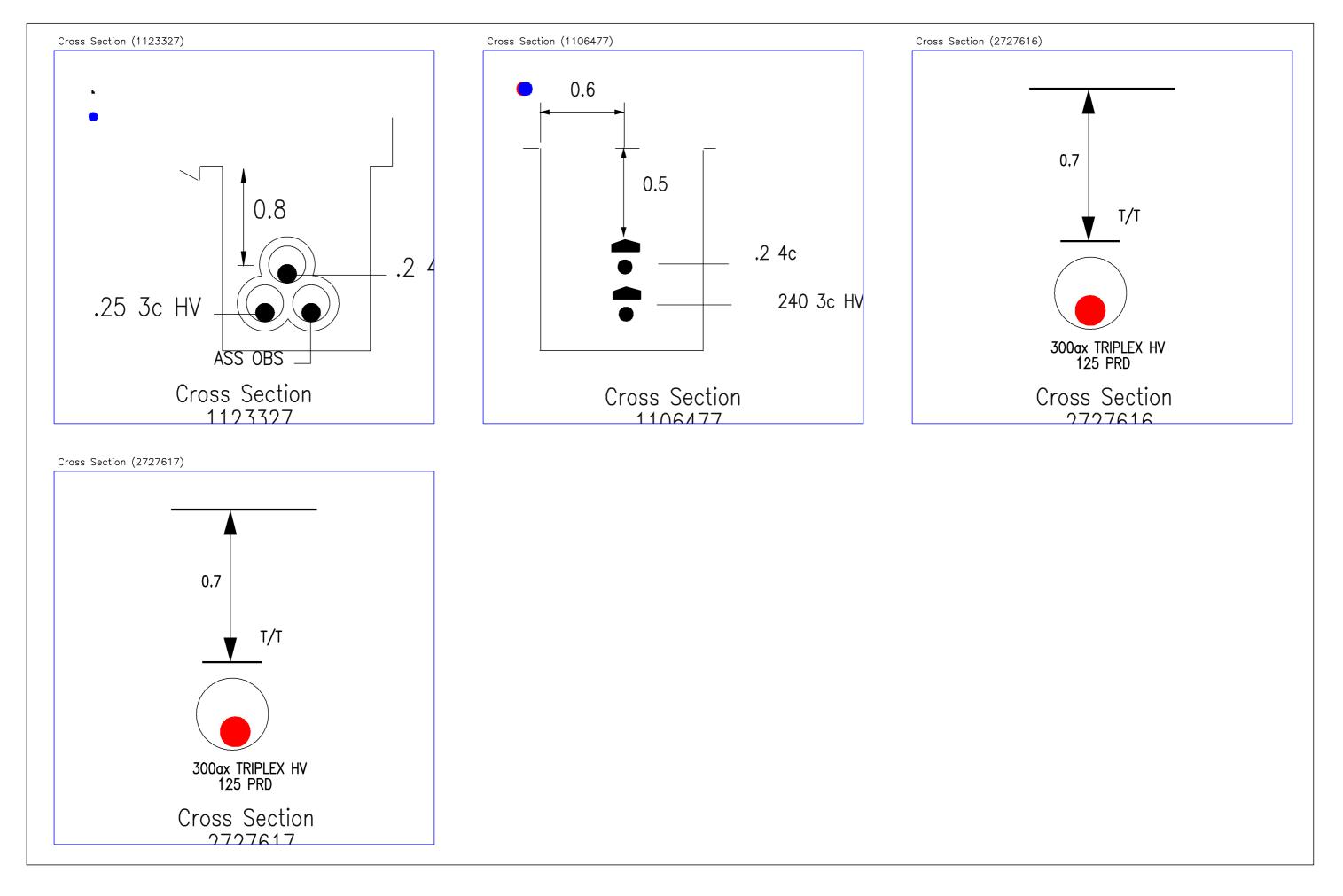
This region includes Southwark, Lambeth, Wandsworth, Merton, Kingston upon Thames and Richmond upon Thames. All maps are drawn to one style - single layer composite raster/vector.

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.





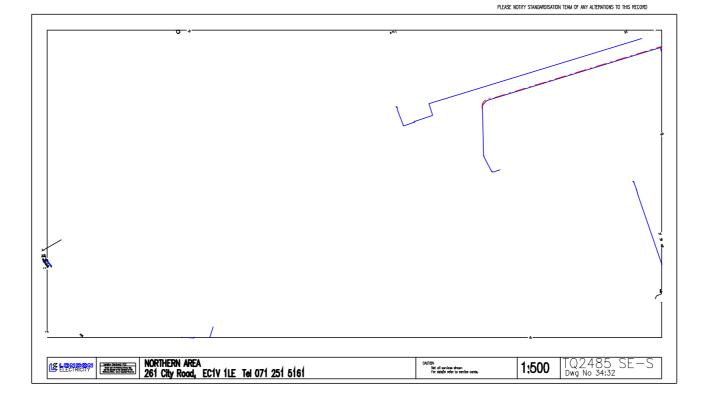
Plotted By: Mark Ellis

2017/2254048

Plotted On 10/05/2017

TQ2485SEBSE





Plotted By: Mark Ellis

2017/2254048

Plotted On 10/05/2017

TQ2485SEBSE



Extra cross-sections and detailed route drawings are available from this supplier in regards to Extra High Voltage equipment which may be present in the area. If you require such information, please email UK Power Networks at <u>plans@ukpowernetworks.co.uk</u>, detailing the address of the site and the route numbers required (route numbers may be gained from the above UK Power Networks plans). Extra drawings and cross-sections will be then be sent to your address via post.

Please note: If no extra High Voltage cables run close to your site area, then extra drawings will not be available.



Stephen Sawyer Technics Group Technics House Guildford Guildford Surrey GU4 7WA Plant Protection Cadent Block 1; Floor 1 Brick Kiln Street Hinckley LE10 0NA E-mail: <u>plantprotection@cadentgas.com</u> Telephone: +44 (0)800 688588

National Gas Emergency Number: 0800 111 999*

National Grid Electricity Emergency Number: 0800 40 40 90* * Available 24 hours, 7 days/week. Calls may be recorded and monitored.

www.cadentgas.com

Date: 15/05/2017 Our Ref: NL_TE_Z5_3SWX_328651 Your Ref: GRS03898 RE: Proposed Works, 23a Ravenshaw Street, Camden, Greater London, NW6 1NP

Thank you for your enquiry which was received on 15/05/2017. 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 Ltd, National Grid Electricity Transmission plc's and National Grid Gas 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 (<u>http://cadentgas.com/Digging-safely/Dial-before-you-dig</u>) 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 <u>initial</u> assessment within 14 days of receipt of a Scheduled Works enquiry and dependent on the outcome of this, further consultation may be required.

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

Your Responsibilities and Obligations

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

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

This assessment solely relates to Cadent Gas Ltd, National Grid Electricity Transmission plc (NGET) and National Grid Gas plc (NGG) 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 the National Grid Website (<u>http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=8589934982</u>).

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 Ltd, NGG 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 (<u>click here</u>) 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)
- Electricity Transmission underground cables and associated equipment

Requirements

BEFORE carrying out any work you must:

- Refer to the attached cable profile drawings (if any) which provide details about the location of National Grid's high voltage underground cables.
- 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

Working Near National Grid Electricity Transmission equipment:

If you are carrying out any work in proximity to an overhead line or any excavation that may be near an underground cable then please consult National Grid Technical Guidance Note 287 that can be found at http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=8589935533 Further guidance related to underground cables can also be found at http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=8589935533 Further guidance related to underground cables can also be found at http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=8589936512

Excavating Safely - Avoiding injury when working near gas pipes: http://www.nationalgrid.com/NR/rdonlyres/2D2EEA97-B213-459C-9A26-18361C6E0B0D/25249/Digsafe_leaflet3e2finalamends061207.pdf

Standard Guidance

Essential Guidance document: http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=8589934982

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

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 Website: <u>http://www.nationalgrid.com/uk/Gas/Safety/work/downloads/</u>

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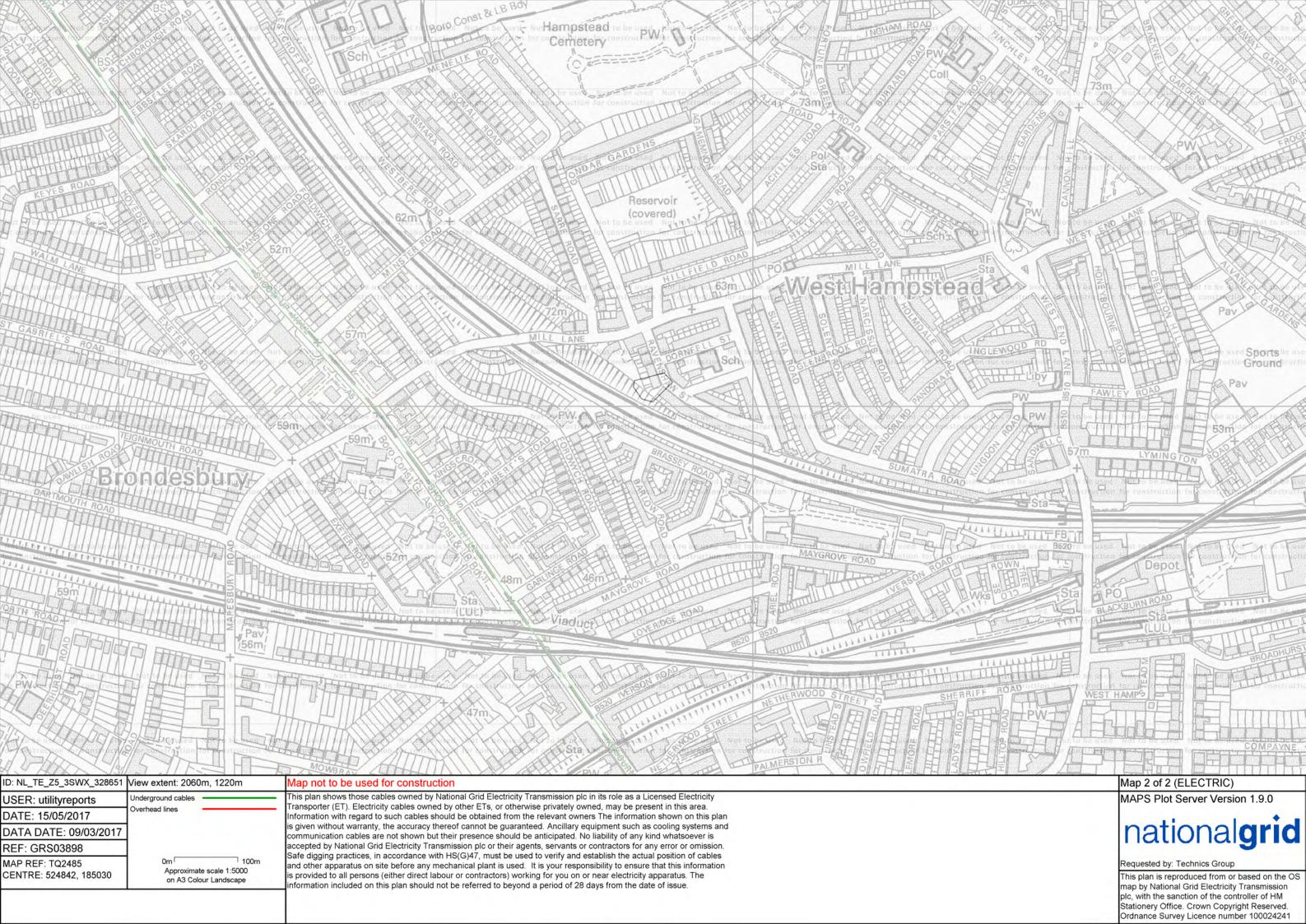
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ID: NL_TE_Z5_3SWX_328651	View extent: 515m, 305m	Map not to be used for construction		
USER: utilityreports	LP MAINS	This plan shows those pipes owned by National Grid Gas plc in its role as a Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information		
DATE: 15/05/2017		with regard to such pipes should be obtained from the relevant owners. The information shown on this plan is		
DATA DATE: 09/05/2017		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		
REF: GRS03898	NHP MAINS	National Grid Gas plc 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,		
MAP REF: TQ2485 CENTRE: 524842, 185030	0m 25m Approximate scale 1:1250 on A3 Colour Landscape	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		
Some examples of Plant Items: Valve Depth of Sypi	non Diameter Material Out of Standard Change Anage	of issue.		

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ENQUIRY SUMMARY

Received Date 15/05/2017

Your Reference GRS03898

Location Centre Point: 524842, 185030 X Extent: 64 Y Extent: 48 Postcode: NW6 1NP Location Description: 23a Ravenshaw Street, Camden, Greater London, NW6 1NP

Map Options Paper Size: A3 Orientation: LANDSCAPE Requested Scale: 500 Actual Scale: 1:1250 (GAS), 1:5000 (ELECTRIC) Real World Extents: 515m x 305m (GAS), 2060m x 1220m (ELECTRIC)

Recipients utility.reports@technicsgroup.com

Enquirer Details Organisation Name: Technics Group Contact Name: Stephen Sawyer Email Address: utility.reports@technicsgroup.com Telephone: 01483 230080 Address: Technics House, Guildford, Guildford, Surrey, GU4 7WA

<u>Description of Works</u> 23a Ravenshaw Street, Camden, Greater London, NW6 1NP

Enquiry Type Proposed Works

Activity Type Utility Works

<u>Work Types</u> Work Type: Plans Only