

## **Utility Search**



Site Parisfal Garages,

London,

NW6 1UG,

(Behind 521 Finchley Road)

**Client** Gary Sugarman

Date August 2020

Our Ref UTL/11384



We have checked CityFibre's website and in this instance your area is not affected.

### C G, Shiljith

From: Plantenquiries <Plantenquiries@instalcom.co.uk>

**Sent:** 06 August 2020 16:41

**To:** Utility Solutions GDC Requests

**Subject:** E08-20-0984 RE: Plant Enquiry - 87365 - Site off Finchley Road, London - Please

respond by 07/08/2020

### 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.

<u>Please note that this response is only valid for 3 months.</u> 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: <a href="mailto:plantenquiries@instalcom.co.uk">plantenquiries@instalcom.co.uk</a>
Web: <a href="mailto:http://www.instalcom.co.uk">http://www.instalcom.co.uk</a>









**From:** requests.utilitysolutions@atkinsglobal.com [mailto:requests.utilitysolutions@atkinsglobal.com]

**Sent:** 04 August 2020 10:16

Cc: requests.utilitysolutions@atkinsglobal.com

Subject: Plant Enquiry - 87365 - Site off Finchley Road, London - Please respond by 07/08/2020

Our Reference: 87365

Site Name: Site off Finchley Road, London

Works Description: Construction of basement Other (please state in Additional Works Description)

From: Plant Enquiries <plantenquiries@lastmile-uk.com>

**Sent:** 04 August 2020 20:50

To: Utility Solutions GDC Requests

**Subject:** RE: Plant Enquiry - 87365 - Site off Finchley Road, London - Please

respond by 07/08/2020

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 plantenguiries@lastmile-uk.com

Regards

From: requests.utilitysolutions@atkinsglobal.com < requests.utilitysolutions@atkinsglobal.com >

Sent: 04 August 2020 10:16

Cc: requests.utilitysolutions@atkinsglobal.com

Subject: Plant Enquiry - 87365 - Site off Finchley Road, London - Please respond by 07/08/2020

Our Reference: 87365

Site Name: Site off Finchley Road, London

Works Description: Construction of basement Other (please state in Additional Works Description) Site Grid References: 525406 185497,525458 185526,525352 185464,525423 185556,525386

185438

To whom it may concern,

Please find enclosed a plant enquiry for your attention.

We request plans showing the location of your company's affected plant in relation to the entire site area shown within the boundary on the attached map. Grid references and postcodes relative to the site boundary are provided on the attached map to help you locate the site.

Within your response please quote our reference number and the name of the site shown above. If you do not have any apparatus in this area, please could you send written confirmation to declare that no apparatus is affected. Please also include information relating to the use and location of Radio Frequency Identification Devices (RFIDs) where available.

It would be greatly appreciated if you could respond to this enquiry by 07/08/2020. Your prompt response will assist with our clients proposals in your interests of plant protection.

If you have any queries in relation to this plant enquiry please do not hesitate to contact us.

Kind regards,

**ATKINS - Utility Solutions** 

### C G, Shiljith

From: Location Enquiries <SMBLocationEnquiries@tfl.gov.uk>

**Sent:** 06 August 2020 13:10

**To:** Utility Solutions GDC Requests

**Subject:** RE: Plant Enquiry - 87365 - Site off Finchley Road, London - Please respond by

07/08/2020

### 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 provided by you.

However your works may affect Transport for London Road Network. Please contact the following for advice if you are carrying out any highway/utility works:

Transport for London RSM Operations Planned Interventions

Email: plantenquiries@tfl.gov.uk

### Kind regards

### **Shahina Inayathusein MIAM MAPM**

Safeguarding Engineer (LU+DLR)
Infrastructure Protection-TfL Engineering
Email: locationenquiries@tube.tfl.gov.uk

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

From: Utility Solutions GDC Requests < requests.utilitysolutions@atkinsglobal.com>

Sent: 04 August 2020 10:15

To: Location Enquiries <SMBLocationEnquiries@tfl.gov.uk>

Subject: Plant Enquiry - 87365 - Site off Finchley Road, London - Please respond by 07/08/2020

87365 - Site off Finchley Road, London- 525406 185497- NW3 7BT

**Works Description- Construction of basement** 

### C G, Shiljith

From: Buddi Spandana < Spandana.Buddi@networkrail.co.uk > on behalf of OP Buried

Services Enquiries < OPBuriedServicesEnquiries@networkrail.co.uk>

**Sent:** 04 August 2020 21:23

**To:** Utility Solutions GDC Requests

Subject: Saved/RPA RE: Plant Enquiry - 87365 - Site off Finchley Road, London - Please

respond by 07/08/2020

### 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.

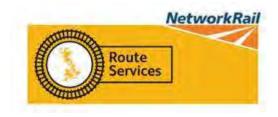
Contact details can be found in the following link: Network Rail Asset Protection Teams

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

Regards,

### Spandana Buddi

Distribution Administrator, Worksite Survey



### **Worksite Survey | Asset Information Services**

National Records Centre | Audax Road | York YO30 4US T: 01904386374 E: spandana.buddi@networkrail.co.uk

W: www.networkrail.co.uk

From: NRSWA <nrswa.nrswa@sky.uk>

**Sent:** 04 August 2020 18:45

To: Utility Solutions GDC Requests

**Subject:** Plant Enquiry - 87365 - Site off Finchley Road, London - 07/08/2020



Thank you for your enquiry.

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

Best endeavours have been made to ensure accuracy, however if you require further information, please contact us by email at <a href="mailto:nrswa@sky.uk">nrswa@sky.uk</a>.

### Regards

NRSWA Department
Tech UK - Implementation

Sky TECHNOLOGY

nrswa@sky.uk +44 20703232234

From: requests.utilitysolutions@atkinsglobal.com < requests.utilitysolutions@atkinsglobal.com >

Sent: 04 August 2020 10:16

Cc: requests.utilitysolutions@atkinsglobal.com

Subject: [EXTERNAL] Plant Enquiry - 87365 - Site off Finchley Road, London - Please respond by

07/08/2020

Our Reference: 87365

Site Name: Site off Finchley Road, London

Works Description: Construction of basement Other (please state in Additional Works Description) Site Grid References: 525406 185497,525458 185526,525352 185464,525423 185556,525386

185438

To whom it may concern,

Please find enclosed a plant enquiry for your attention.

We request plans showing the location of your company's affected plant in relation to the entire site area shown within the boundary on the attached map. Grid references and postcodes relative to the site boundary are provided on the attached map to help you locate the site.

Within your response please quote our reference number and the name of the site shown above. If you do not have any apparatus in this area, please could you send written confirmation to declare that

### C G, Shiljith

From: TM Plant Enquiries <plantenquiries@trafficmaster.co.uk>

**Sent:** 06 August 2020 16:48

**To:** Utility Solutions GDC Requests

**Subject:** Re: Plant Enquiry - 87365 - Site off Finchley Road, London - Please respond by

07/08/2020

Our ref: Damian Sweeney TEL: 01234759112 or 07712129249

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

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

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

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

Yours sincerely For & on Behalf of Trafficmaster Ltd

### **Infrastructure Maintenance**

plantenquiries@trafficmaster.co.uk

From: Utility Solutions GDC Requests < requests.utilitysolutions@atkinsglobal.com>

Sent: Tuesday, August 4, 2020 9:14 AM

To: mark.bentley@camden.gov.uk <mark.bentley@camden.gov.uk>; amp@camden.gov.uk

<amp@camden.gov.uk>; highwaysmanagement@camden.gov.uk <highwaysmanagement@camden.gov.uk>;

jim.thornhill@camden.gov.uk < jim.thornhill@camden.gov.uk>; londonpermitscheme@lbhf.gov.uk < londonpermitscheme@lbhf.gov.uk>; TM Plant Enquiries < plantenquiries@trafficmaster.co.uk>;

lulhvpowerassets@tfl.gov.uk <lulhvpowerassets@tfl.gov.uk>

Subject: Plant Enquiry - 87365 - Site off Finchley Road, London - Please respond by 07/08/2020

CAUTION: This email originated from outside the company.

Our Reference: 87365

Site Name: Site off Finchley Road, London Works Description: Construction of basement

Site Grid References: 525406 185497,525458 185526,525352 185464,525423 185556,525386 185438

To whom it may concern,

Please find enclosed a plant enquiry for your attention.

We request plans showing the location of your company's affected plant in relation to the entire site area shown within the boundary on the attached map. Grid references and postcodes relative to the site boundary are provided on the attached map to help you locate the site.

Within your response please quote our reference number and the name of the site shown above. If you do not have any apparatus in this area, please could you send written confirmation to declare that no apparatus is affected. Please also include information relating to the use and location of Radio Frequency Identification Devices (RFIDs) where available.

It would be greatly appreciated if you could respond to this enquiry by 07/08/2020. Your prompt response will assist with our clients proposals in your interests of plant protection.

From: UK OSP-Team <osp-team@uk.verizon.com>

**Sent:** 05 August 2020 20:41

**To:** Utility Solutions GDC Requests

Cc: UK OSP-Team

**Subject:** RE: [E] Plant Enquiry - 87365 - Site off Finchley Road, London -

Please respond by 07/08/2020

### Dear Sir/Madam

Verizon is a licensed Statutory Undertaker.

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

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

Yours faithfully

Plant Protection Officer (GB) Email osp-team@uk.verizon.com

From: requests.utilitysolutions@atkinsglobal.com [mailto:requests.utilitysolutions@atkinsglobal.com]

Sent: 04 August 2020 10:16

Cc: requests.utilitysolutions@atkinsglobal.com

Subject: [E] Plant Enquiry - 87365 - Site off Finchley Road, London - Please respond by 07/08/2020

Our Reference: 87365

Site Name: Site off Finchley Road, London

Works Description: Construction of basement Other (please state in Additional Works Description) Site Grid References: 525406 185497,525458 185526,525352 185464,525423 185556,525386

185438

To whom it may concern,

Please find enclosed a plant enquiry for your attention.

We request plans showing the location of your company's affected plant in relation to the entire site area shown within the boundary on the attached map. Grid references and postcodes relative to the site boundary are provided on the attached map to help you locate the site.

Within your response please quote our reference number and the name of the site shown above. If you do not have any apparatus in this area, please could you send written confirmation to declare that no apparatus is affected. Please also include information relating to the use and location of Radio Frequency Identification Devices (RFIDs) where available.

From: Ahmad, Ejaz

**Sent:** 05 August 2020 09:40

To: Utility Solutions GDC Requests

**Subject:** RE: Plant Enquiry - 87365 - Site off Finchley Road, London - Please

respond by 07/08/2020

Please accept this email as confirmation that Vodafone: Fixed **does not** have apparatus within the vicinity of your proposed works detailed below.

Many thanks.

Plant Enquiries Team T: +44 (0)1454 662881

E: 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 (now re-named Vodafone Enterprise UK), Energis Communications Limited, Thus Group Holdings Limited 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.

### IMPORTANT - PLEASE READ:

Diversionary works may be necessary if the existing line of the highway/railway or its levels are altered, where apparatus is affected. Where apparatus is affected and requires diversion, you must submit draft details of the proposed scheme with a request for a <a href="mailto:1038budget Estimate">103 Budget Estimate</a> to <a href="mailto:238budget Estimate">238budget Estimate</a> to <a href="mailto:238budget Estimate</a> to <a href="mailto:238b



Please consider the environment before printing this e-mail

From: requests.utilitysolutions@atkinsglobal.com < requests.utilitysolutions@atkinsglobal.com >

Sent: 04 August 2020 14:46

Cc: Utility Solutions GDC Requests < requests.utilitysolutions@atkinsglobal.com>

Subject: Plant Enquiry - 87365 - Site off Finchley Road, London - Please respond by 07/08/2020

Our Reference: 87365

Site Name: Site off Finchley Road, London

Works Description: Construction of basement Other (please state in Additional Works Description) Site Grid References: 525406 185497,525458 185526,525352 185464,525423 185556,525386

185438

To whom it may concern,

Please find enclosed a plant enquiry for your attention.





Prepared for: Landmark Information Group Ltd

Practitioner: Atkins

Order Number: 250832775\_1

Site Name: Site off Finchley Road, London

Date of Order: 03 August 2020 Date of Issue: 10 August 2020

Thank you for using our Utilities Report Service.

This report has been completed in accordance with the standards defined under Survey Category D of PAS128, a Publicly Available Specification for underground utility detection, verification and location published by the British Standards Institution.

Positional accuracy of plant is not guaranteed from information presented in a desktop search alone and the location of underground utilities should be verified through other means prior to breaking ground.

Information relating to the presence of Radio Frequency Identification Devices (RFIDs) has been requested from relevant utility companies or taken from mapping systems where available.

Utility companies who have not responded to enquiries are referenced on the enclosed Status Report accordingly. Their response will be chased and forwarded on for a period of up to four working weeks. Whilst we cannot guarantee that a utility company will respond to our enquiries, we endeavour to obtain responses from those that have not responded.

Any responses contained within this report have been obtained between the start date of the order and the date of issue.

If you want to discuss your report further with us please contact Landmark Customer Services.

### **Utilities** Report



Note: Utility asset information has been requested for the whole area demarcated by the red boundary.

### Kulkarni, Banashankari

**From:** customerservices@landmark-information.co.uk

Sent: 03 August 2020 22:03
To: Utility Solutions - Landmark

**Subject:** Utility Report Information - Order Number -250832775 - your ref:11384

Attachments: 11384\_Utilities\_Datasheet.pdf; 11384\_Utils\_Map\_10k.gif; 11384\_Utilities\_Report\_dummy\_file.csv

Order Number: 250832775\_1

Product Description: Utilities Report Express Service

Site Address: Garages at Parsifal House, Finchley Road, LONDON, NW3 7BT

Site Easting: 525410

Site Northing: 185500

Delivery Method: Email

Site Area m2: 1037.7

**Business Unit: 4** 

Input Method: 21

Overview Map: No

Works Description: Other: Construction of basement

### **Request Status Report**

A

LM / 87365

Site off Finchley Road, London

NV

OSGR: 525410,185500

Date Requested: 03 August 2020

**Client Reference:** 

250832775\_1

Affected Utilities We have received plans/information from the following companies. Please see the enclosed response.

Utility	Category	Date Issued	Late Response Issue Date	Notes
Cadent Gas Ltd	Gas	10 August 2020		
GTC	Telecom, Gas, Electric, Water	10 August 2020		
LinesearchbeforeUdig	Other	10 August 2020		UK Power Networks - identified as affected. See separate response.
London Borough of Camden	Council	10 August 2020		
Openreach - [British Telecommunications]	Telecom	10 August 2020		
Thames Water	Water, Sewerage	10 August 2020		
UK Power Networks	Electric	10 August 2020		
Utility Assets	Electric	10 August 2020		See response.
Virgin Media	Telecom	10 August 2020		

**No Response Received** We are still awaiting a full response from the following companies.

Utility	Category	Date Issued	Late Response Issue Date	Notes
C.A. Telecom UK - [Colt Technology Services]	Telecom			
Environment Agency	Environmental Agency			
London Underground - Power Distribution	Rail			
Transport for London	Highways			

**Not Affected Utilities** We have received a not affected/no plant present response from the following companies.

Utility	Category	Date Issued	Late Response Issue Date	Notes
CityFibre	Telecom	10 August 2020		
Instalcom - [CenturyLink, Global Crossing, Fibernet & Fiberspan]	Telecom	10 August 2020		
Last Mile	Gas, Electric	10 August 2020		
London Underground	Rail	10 August 2020		
Network Rail	Rail	10 August 2020		
SKY Telecommunications Services	Telecom	10 August 2020		
Trafficmaster	Highways	10 August 2020		
Verizon	Telecom	10 August 2020		
Vodafone	Telecom	10 August 2020		

**Checked and Validated By TT** 

Date 10 August 2020

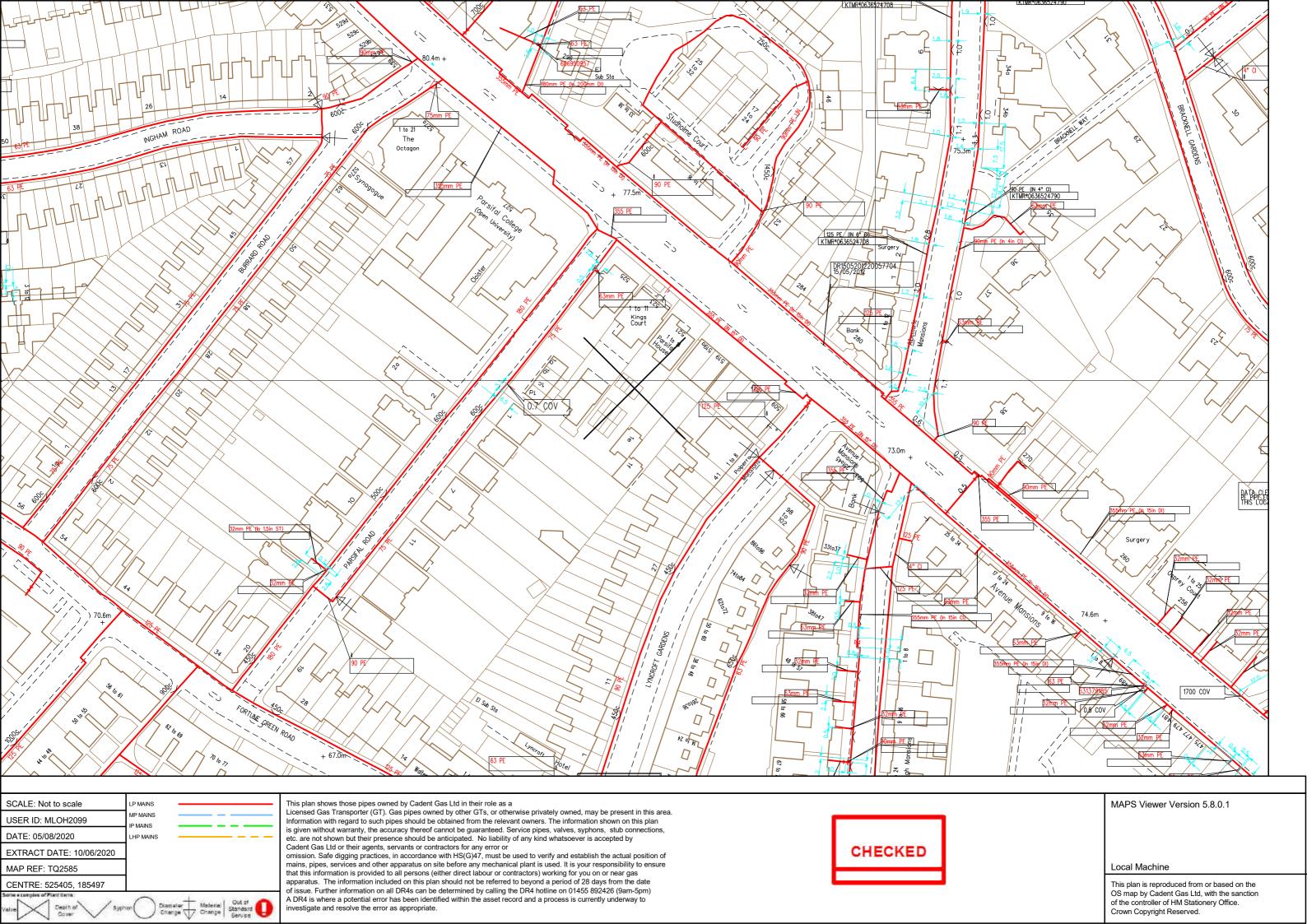
### **Definition of Terms**

**Affected** - Utility supplier is expected to be affected by any work carried out in the area searched as their records indicate their plant is in or close to the area searched. It is recommended to anybody carrying out works in the area that they should consult with the utility company as soon as possible and in any event prior to carrying out any works.

No Response Received - At the date of sending the report no response has been received from the utility supplier.

**Not Affected** - Utility supplier is not expected to be affected by any work carried out in the area searched as their records indicate their plant is not in or close to the area searched.

Date Printed: 10 August 2020





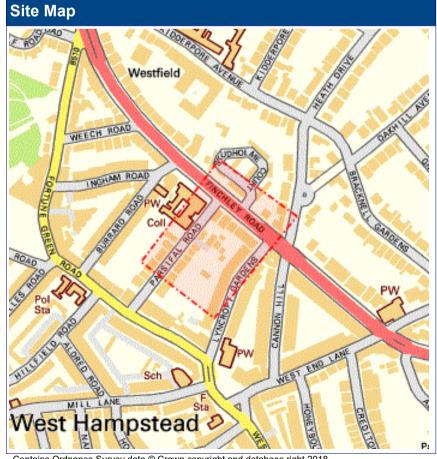
## Enquiry Confirmation LSBUD Ref: 19573267

Date of enquiry: 04/08/2020 Time of enquiry: 10:09

Enquirer			
Name	Ms Christina Elliott	Phone	01454 662397
Company	Atkins	Mobile	Not Supplied
Address	500 Park Avenue Aztec West Almondsbury Bristol BS32 4RZ		
Email	stat.enquiries@atkinsglobal.com		

M 87365/BRK  nitial Enquiry  07/08/2020	Work cate	gory	Utility V	Vorks
		gory	Utility V	Vorks
07/08/2020	<b>VA</b> / <b>I</b>		•	VOIRS
	07/08/2020 Work type Single excava		excavation site	
07/11/2020	Site size 34020		metres square	
XY= 525406, 185497	5406, 185497 Work type buffe		25 met	res
525398 185497	1			
Not Supplied		Site Ph	one No	Not Supplied
×	(Y= 525406, 185497 525398 185497	Y= 525406, 185497 Work type 525398 185497	Y= 525406, 185497 Work type buffer* 525398 185497	Y= 525406, 185497 Work type buffer* 25 metroscopic states and the states are states as the states are states are states as the states are states are states as the states are states are states as the states are states as the states are states are states as the states are states as the states are states as the states are states are states as the states are states are states as the states are states are states are states as the states are states are states are states are states are states as the states are states as the states are stat

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





## **Enquiry Confirmation LSBUD Ref: 19573267**

Date of enquiry: 04/08/2020 Time of enquiry: 10:09

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

List of affect	ed LSBUD members		
Asset Owner	Phone/Email	Emergency Only	Status
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	ВРА	Carrington Gas Pipeline
CATS Pipeline c/o Wood Group PSN	Cemex	Centrica Storage Ltd
Chrysaor Production (UK) Limited	CLH Pipeline System Ltd	CNG Services Ltd
Concept Solutions People Ltd	ConocoPhillips (UK) Teesside Operator Ltd	Diamond Transmission Corporation
DIO (MOD Abandoned Pipelines)	Drax Group	E.ON UK CHP Limited
EirGrid	Electricity North West Limited	ENI & Himor c/o Penspen Ltd
EnQuest NNS Limited	EP Langage Limited	ESP Utilities Group
ESSAR	Esso Petroleum Company Limited	Fulcrum Pipelines Limited
Gamma	Gas Networks Ireland (UK)	Gateshead Energy Company
Gigaclear Ltd	Gtt	Heathrow Airport LTD
Humbly Grove Energy	IGas Energy	INEOS FPS Pipelines
INEOS Manufacturing (Scotland and TSEP)	INOVYN Enterprises Limited	Intergen (Coryton Energy or Spalding Energy)
Jurassic Fibre Ltd	Mainline Pipelines Limited	Manchester Jetline Limited
Manx Cable Company	Marchwood Power Ltd (Gas Pipeline)	Melbourn Solar Limited
Murphy Utility Assets	National Grid Gas (Above 7 bar), National Grid Gas Distribution Limited (Above 2 bar) and National Grid Electricity Transmission	Northumbrian Water Group
NPower CHP Pipelines	NYnet Ltd	Oikos Storage Limited
Ørsted	Perenco UK Limited (Purbeck Southampton Pipeline)	Petroineos
Phillips 66	Portsmouth Water	Premier Transmission Ltd (SNIP)
Redundant Pipelines - LPDA	RWE - Great Yarmouth Pipeline (Bacton to Great Yarmouth Power Station)	RWEnpower (Little Barford and South Haven)
SABIC UK Petrochemicals	Scottish and Southern Electricity Networks	Scottish Power Generation
Seabank Power Ltd	SES Water	SGN
Shell	Shell NOP	SSE (Peterhead Power Station)
SSE Enterprise Telecoms	SSE 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		

### C G, Shiljith

From: Jelpke, Katherine <Katherine.Jelpke@camden.gov.uk>

**Sent:** 06 August 2020 21:57

**To:** Utility Solutions GDC Requests

**Subject:** RE: Plant Enquiry - 87365 - Site off Finchley Road, London - Please respond by

07/08/2020

Attachments: 87365.pdf

Dear Atkins - Utility Solutions,

Atkins Reference: 87365

Site Name: Site off Finchley Road, London Works Description: Construction of basement

Site Grid References: 525406 185497,525458 185526,525352 185464,525423 185556,525386 185438

I attach a map of the requested area.

Kind regards,

Katherine Jelpke
Asset Management Technical Officer

Telephone: 020 7974 4746



The majority of Council staff are now working at home through remote, secure access to our systems.

Where possible please now communicate with us by telephone or email. We have limited staff in our offices to deal with post, but as most staff are homeworking due to the current situation with COVID-19, electronic communications will mean we can respond quickly.

From: Utility Solutions GDC Requests < requests.utilitysolutions@atkinsglobal.com>

**Sent:** 04 August 2020 10:14

To: Bentley, Mark <Mark.Bentley@camden.gov.uk>; amp <amp@camden.gov.uk>; Street Works

<StreeWorks@LBCamden.mail.onmicrosoft.com>; jim.thornhill@camden.gov.uk;

londonpermitscheme@lbhf.gov.uk; plantenquiries@trafficmaster.co.uk; lulhvpowerassets@tfl.gov.uk

Subject: Plant Enquiry - 87365 - Site off Finchley Road, London - Please respond by 07/08/2020

**[EXTERNAL EMAIL]** Beware – This email originated outside Camden Council and may be malicious Please take extra care with any links, attachments, requests to take action or for you to verify your password etc. Please note there have been reports of emails purporting to be about Covid 19 being used as cover for scams so extra vigilance is required.

Our Reference: 87365

Site Name: Site off Finchley Road, London Works Description: Construction of basement

Site Grid References: 525406 185497,525458 185526,525352 185464,525423 185556,525386 185438







Our Ref: Ref shown on map

Date of issue: shown on map

email: nnhc@openreach.co.uk

Dear Customer.

### NR & SW ACT 1991 - PROPOSED WORKS AT: \*\*SITE LOCATION\*\*

Prior to commencement of work: For free onsite guidance and accurate up to date location of BT Apparatus please contact our Plant Protection Service by the following methods:-

Email the Click Before You Dig Team <a href="mailto:CBYD@openreach.co.uk">CBYD@openreach.co.uk</a> Visit the Click Before You Dig Website <a href="https://www.openreach.co.uk/cbyd">www.openreach.co.uk/cbyd</a>

Thank you for your request of \*\*/\*\*/\*\* describing the above proposals.

Enclosed are copies of our drawings marked up to show the approximate locations of BT apparatus in the immediate vicinity of your works. It is intended for general guidance only. No guarantee is given of its accuracy.

The drawings are valid for 90 days from the date of issue and should not be relied upon after this time period has expired.

When planning excavation work or other works near to BT apparatus, please be mindful our apparatus may exist at various depths and may deviate from the marked route.

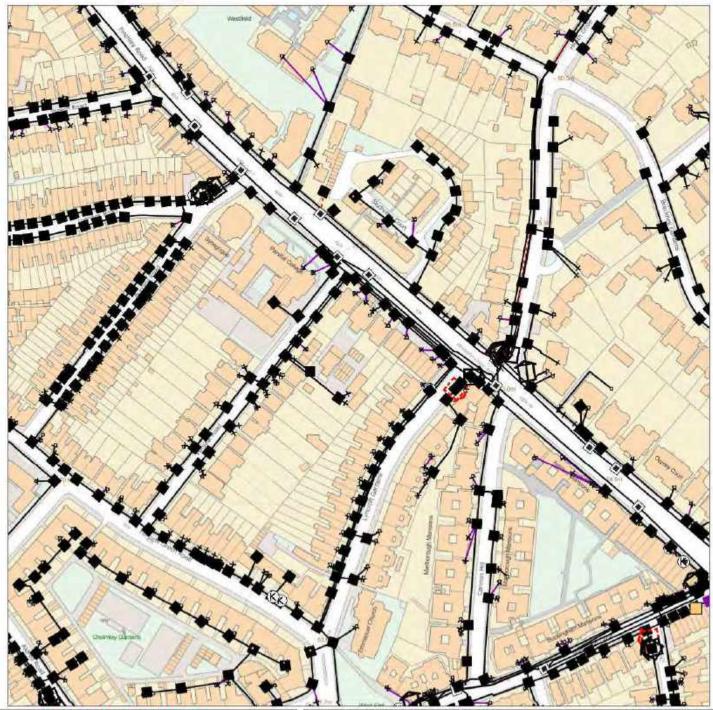
To avoid damage it is recommended that mechanical excavators or borers are not used within 600mm of BT apparatus. If scaffolding is erected, please ensure that our equipment is not enclosed, blocked, covered or otherwise obstructed by the scaffolding.

In the event of BT apparatus being in the area of your works we recommend that your plant/vehicle crossing is either resited, or apply for a budget estimate by submitting detailed plans to our Network Relocation Team at <a href="https://www.ournetwork.openreach.co.uk/altering-our-network.aspx">https://www.ournetwork.openreach.co.uk/altering-our-network.aspx</a>

Yours faithfully,

Jason Carrington NNHC & MBE Manager

## 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.



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

### email cbyd@openreach.co.uk

ADVANCE NOTICE REQUIRED (Office hours: Monday - Friday 08.00 to 17.00) yww.oporreach.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

Reproduced from the Ordnance Survey map by BT by permission of Ordnance Survey on hehalf of the Controller of Her Majesty's Stationary Office (C) Crown Copyright British Telecommunications plc 100028040

KEY	TO BT SYM	BOLS	Change Of State	+	Hatchings	<b>XX</b>
	Planned	Live	Split Coupling	×	Built	^
PCP	- 13	Ø	Duct Tee		Planned	
Pole	0	0	Building		Inferred	^
Box	4	-	Kiosk	(K)	Duct	_
Manhole	<b>a</b>		Other proposed plant is shown using dashed lines.  87 Symbols not listed above may be disregarded.			
Cabinet	Û		Exist	ng aT Plant	may not be reco a of preparation	rded.
					ter the date of p	110899055555
	Pending Add	In Place	Pending Remove	Not in Use		
Power Cable	HH	NH	A.A.	HH		

BT Ref: MNX06298C

Power Duct

Map Reference : (centre) TQ2540585497 Easting/Northing: (centre) 525405,185497

Issued: 04/08/2020 18:29:24



Atkins Telecoms Stats Enquiries Team The Hub 500Park Avenue BRISTOL BS32 4RZ



Search address supplied Site off Finchley Road, London

NW3 7BT

Your reference 87365

Our reference ALS/ALS Standard/2020\_4227517

Search date 5 August 2020

### Knowledge of features below the surface is essential for every development

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

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

Contact us to find out more.



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



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





Search address supplied: Site off Finchley Road, London, NW3 7BT

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

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

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

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

### **Contact Us**

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

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

Email: searches@thameswater.co.uk

Web: www.thameswater-propertysearches.co.uk



### **Waste Water Services**

Please provide a copy extract from the public sewer map.

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

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

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

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

### For your guidance:

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

### **Clean Water Services**

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

Enclosed is a map showing the approximate positions of our water mains and associated apparatus. Please note that records are not kept of the positions of individual domestic supplies.

For your information, there will be a pressure of at least 10m head at the outside stop valve. If you would like to know the static pressure, please contact our Customer Centre on 0800 316 9800. The Customer Centre can also arrange for a full flow and pressure test to be carried out for a fee.



### For your guidance:

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

### **Payment for this Search**

A charge will be added to your suppliers account.



### **Further contacts:**

### **Waste Water queries**

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

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

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

Tel: 0800 009 3921

Email: developer.services@thameswater.co.uk

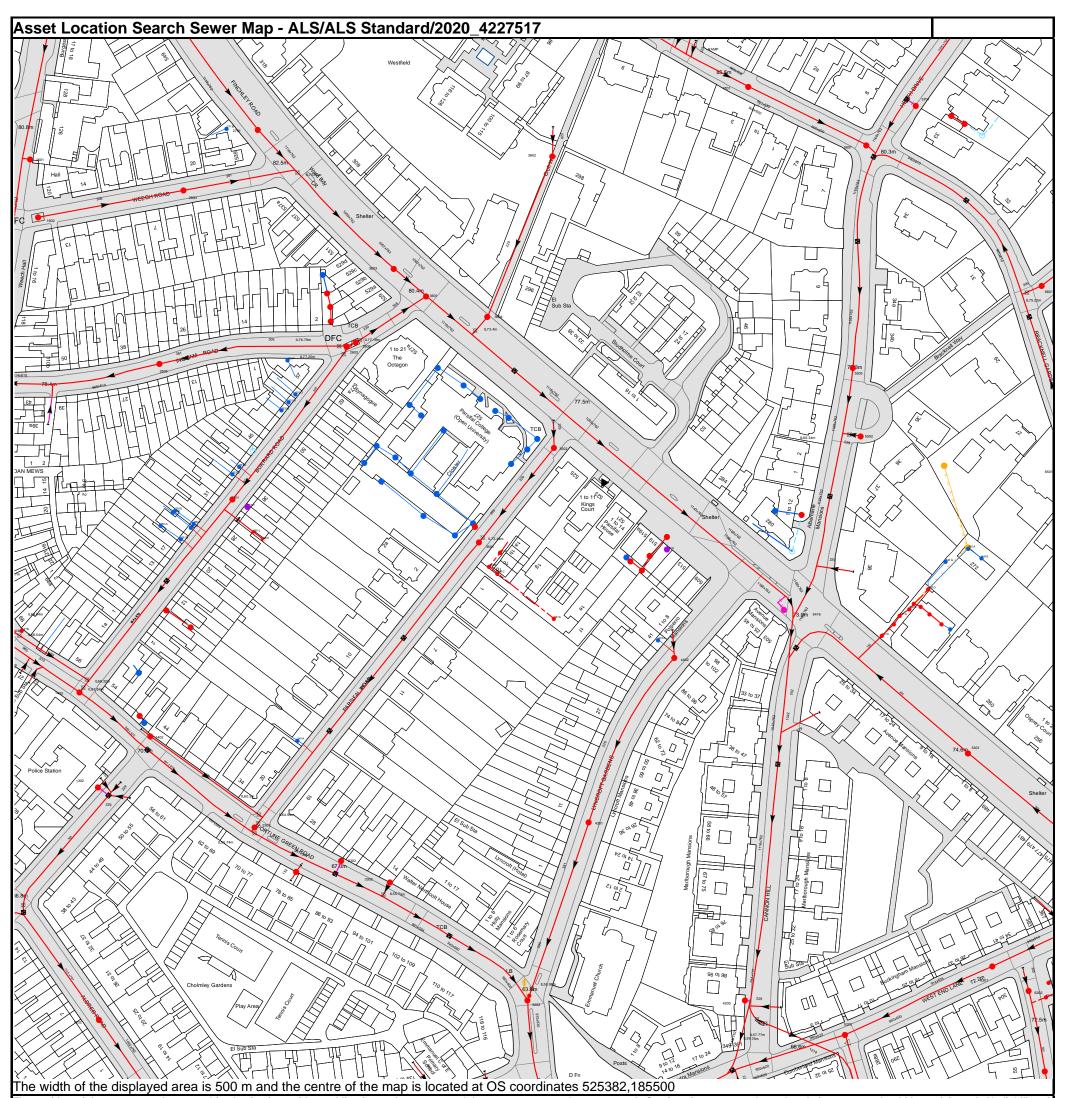
### Clean Water queries

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

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

Tel: 0800 009 3921

Email: developer.services@thameswater.co.uk



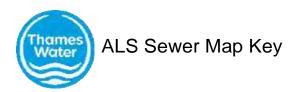
The position of the apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. Service pipes are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Thames Water for any error or omission. The actual 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.

Manhole Reference	Manhole Cover Level	Manhole Invert Level
6301 6202	72.76	65.63 69.1
621A	72.82 n/a	n/a
621C	n/a	n/a
5401	74.39	69.44
541C	n/a	n/a
54BH 54BI	n/a n/a	n/a n/a
541A	n/a	n/a
54BJ	n/a	n/a
541B	n/a	n/a
54CA	n/a	n/a
54CB 541E	n/a n/a	n/a n/a
551A	n/a	n/a
6601	84.61	76.78
5601	79.9	76.07
57BE	n/a	n/a
57BF 57BG	n/a n/a	n/a n/a
5701	n/a	n/a
6201	71.07	66.18
2602	80.34	n/a
2606	80.34	n/a
26CJ	n/a	n/a
26CI 26CH	n/a n/a	n/a n/a
26CG	n/a	n/a
3603	n/a	n/a
2603	81.67	76.7
2701	83.08	76.14
271B 1601	n/a n/a	n/a n/a
1602	80.52	77.66
35BA	n/a	n/a
3601	80.54	75.79
35DE	n/a	n/a
35AI	n/a	n/a
35DA 35CB	n/a n/a	n/a n/a
35CC	n/a	n/a
3604	n/a	n/a
35BB	n/a	n/a
35BC	n/a	n/a
35CE 35CD	n/a n/a	n/a n/a
35BD	n/a	n/a
3602	83.88	82.09
3502	77.59	75.9
4701	84.53	81.17
5503 5502	75.15 74.46	70.16 71.4
2501	78.53	74.75
35CF	n/a	n/a
251G	n/a	n/a
35BI	n/a	n/a
251K 25FA	n/a n/a	n/a n/a
35BH	n/a	n/a
25DA	n/a	n/a
35BE	n/a	n/a
251M	n/a	n/a
35AJ 251N	n/a n/a	n/a n/a
2510	n/a	n/a
2503	79.14	75.01
251P	n/a	n/a
241A	n/a	n/a
2302 3302	n/a 65.87	n/a 63.21
35CG	n/a	n/a
35CH	n/a	n/a
35BF	n/a	n/a
35BG	n/a	n/a
3501 341B	76.74 n/a	73.19 n/a
341B 341C	n/a n/a	n/a n/a
351A	n/a	n/a
3202	63.39	55.06
341A	n/a	n/a
		63.28
4301	67.52	
4301 45AG	n/a	n/a
4301 45AG 141B		n/a n/a
4301 45AG 141B 1403 1302	n/a n/a 71.4 n/a	n/a n/a 56.3 n/a
4301 45AG 141B 1403 1302 1202	n/a n/a 71.4 n/a 63.01	n/a n/a 56.3 n/a 57.79
4301 45AG 141B 1403 1302 1202 14FE	n/a n/a 71.4 n/a 63.01 n/a	n/a n/a 56.3 n/a 57.79 n/a
4301 45AG 141B 1403 1302 1202 14FE 14FH	n/a n/a 71.4 n/a 63.01 n/a n/a	n/a n/a 56.3 n/a 57.79 n/a n/a
4301 45AG 141B 1403 1302 1202 14FE	n/a n/a 71.4 n/a 63.01 n/a	n/a n/a 56.3 n/a 57.79 n/a

Manhole Reference	Manhole Cover Level	Manhole Invert Level
24BA	n/a	n/a
251C	n/a	n/a
251E	n/a	n/a
251B	n/a	n/a
24AJ	n/a	n/a
251D	n/a	n/a
251F	n/a	n/a
251H	n/a	n/a
251J	n/a	n/a
2303	68.46	n/a
2511	n/a	n/a
2301	n/a	n/a
44BB	n/a	n/a
44BC	n/a	n/a
44BD	n/a	n/a
441A	n/a	n/a
451A	n/a	n/a
45AH	n/a	n/a
4402	71.7	67.34
4205	n/a	n/a
45BD	n/a	n/a
5416	n/a	n/a
55BH	n/a	n/a
55BI	n/a	n/a
5203	68.28	60.97
54CC	n/a	n/a
541D	n/a	n/a
541G	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.



### Public Sewer Types (Operated & Maintained by Thames Water)

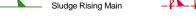






Bio-solids (Sludge)







P Vent Pipe

### **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.



Dam Chase

Fitting

Meter

♦ Vent Column

### **Operational Controls**

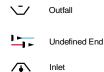
A feature in a sewer that changes or diverts the flow in the sewer. Example: A hydrobrake limits the flow passing downstream.



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.



### Notes:

- 1) All levels associated with the plans are to Ordnance Datum Newlyn.
- 2) All measurements on the plans are metric.
- Arrows (on gravity fed sewers) or flecks (on rising mains) indicate direction of flow.
- 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 milimetres. 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.

### **Other Symbols**

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

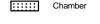
- ▲ / ▲ Public/Private Pumping Station
- \* Change of characteristic indicator (C.O.C.I.)
- Invert Level
- Summit

### Areas

Lines denoting areas of underground surveys, etc.

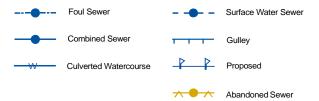


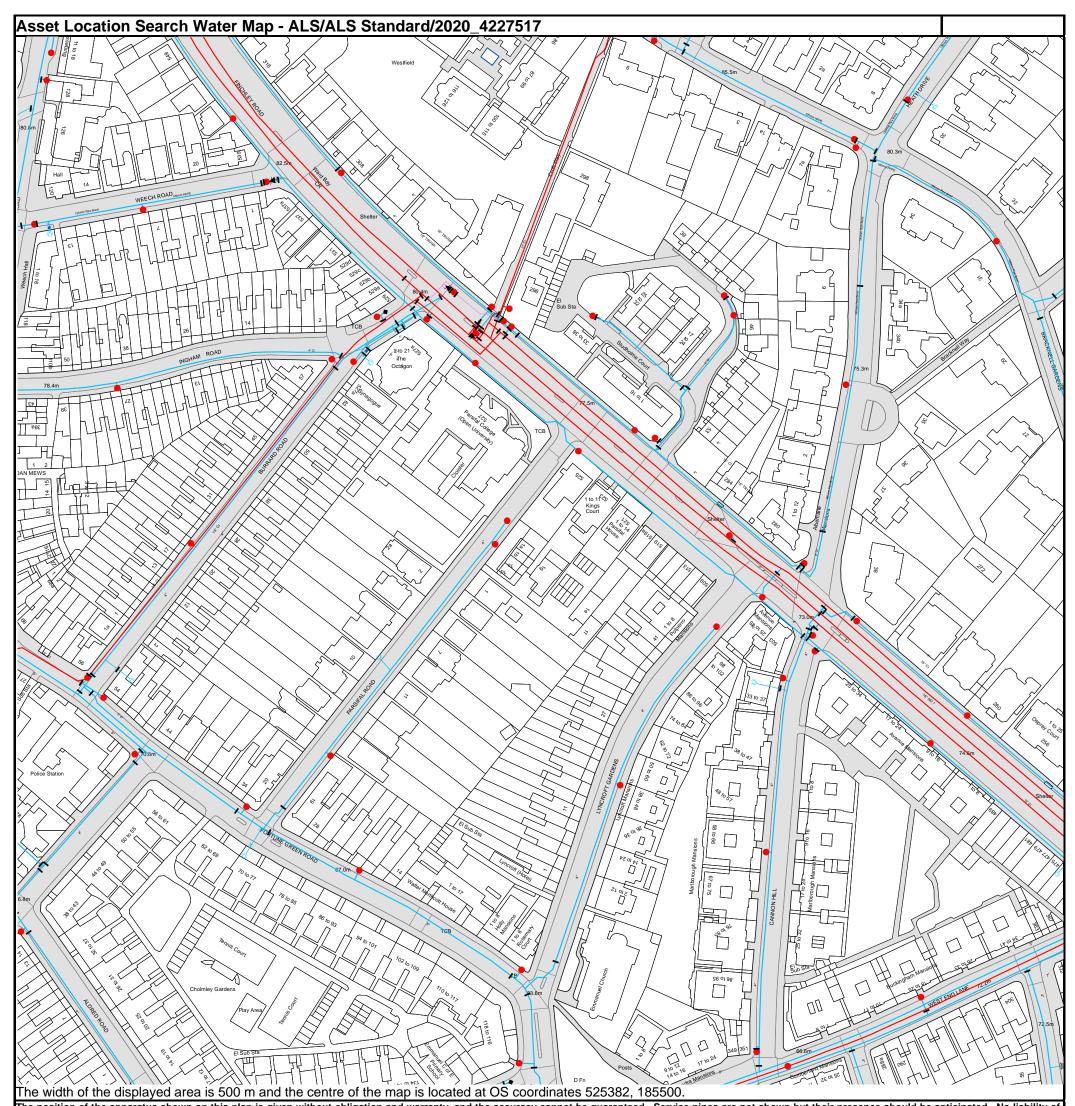
Tunnel





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





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.

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### Water Pipes (Operated & Maintained by Thames Water)

	The (operator a marriamor by married)
4"	<b>Distribution Main:</b> The most common pipe shown on water maps. With few exceptions, domestic connections are only made to distribution mains.
16"	<b>Trunk Main:</b> A main carrying water from a source of supply to a treatment plant or reservoir, or from one treatment plant or reservoir to another. Also a main transferring water in bulk to smaller water mains used for supplying individual customers.
3" SUPPLY	<b>Supply Main:</b> A supply main indicates that the water main is used as a supply for a single property or group of properties.
3" FIRE	<b>Fire Main:</b> Where a pipe is used as a fire supply, the word FIRE will be displayed along the pipe.
3° METERED	<b>Metered Pipe:</b> A metered main indicates that the pipe in question supplies water for a single property or group of properties and that quantity of water passing through the pipe is metered even though there may be no meter symbol shown.
	<b>Transmission Tunnel:</b> A very large diameter water pipe. Most tunnels are buried very deep underground. These pipes are not expected to affect the structural integrity of buildings shown on the map provided.
	<b>Proposed Main:</b> A main that is still in the planning stages or in the process of being laid. More details of the proposed main and its reference number are generally included near the main.

PIPE DIAMETER	DEPTH BELOW GROUND	
Up to 300mm (12")	900mm (3')	
300mm - 600mm (12" - 24")	1100mm (3' 8")	
600mm and bigger (24" plus)	1200mm (4')	

### **Valves Operational Sites** General PurposeValve Air Valve Pressure ControlValve Customer Valve **Hydrants** Single Hydrant Meters Meter **End Items** Symbol indicating what happens at the end of <sup>L</sup> a water main. Blank Flange Capped End **Emptying Pit** Undefined End Manifold

Fire Supply

## **Booster Station** Other Other (Proposed) Pumping Station Service Reservoir Shaft Inspection Treatment Works Unknown Water Tower **Other Symbols** Data Logger Customer Supply

Other w	Atter Pipes (Not Operated or Maintained by Thames Water)
	Other Water Company Main: Occasionally other water company water pipes may overlap the border of our clean water coverage area. These mains are denoted in purple and in most cases have the owner of the pipe displayed along them.
	<b>Private Main:</b> Indiates that the water main in question is not owned by Thames Water. These mains normally have text associated with them indicating the diameter and owner of the pipe.

### **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.
- 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 90478703 Sort code 60-00-01 A remittance advice must be sent to: Thames Water Utilities Ltd., PO Box 3189, Slough SL1 4WW. or email ps.billing@thameswater. co.uk	By calling your bank and quoting: Account number 90478703 Sort code 60-00-01 and your invoice number	Made payable to 'Thames Water Utilities Ltd' Write your Thames Water account number on the back. Send to: Thames Water Utilities Ltd., PO Box 3189, Slough SL1 4WW or by DX to 151280 Slough 13

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



### **ADVISORY NOTICE**

### **SUPPLIER UPDATE: Utility Assets**

On 04/08/2020, an enquiry was sent to Utility Assets' plant record department. As of the date of issue of this Utilities Report, we have not received a formal response from Utility Assets in regards to owning any equipment on this site. Utility Assets have however advised the following:

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

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

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

Asset Manager - Utility Assets Ltd"

If a formal response is received within 3 months of the date of this search it will be forwarded onto you as per our usual service. However, without formal communication from Utility Assets it remains unconfirmed that your site will not be affected by their network. Utility Assets will not acknowledge receipt of this enquiry, or any subsequent chases, unless their network will be affected.

### **Terms and Conditions**

Full Terms and Conditions can be found on the following URL: <a href="http://www.landmarkinfo.co.uk/Terms/Show/515">http://www.landmarkinfo.co.uk/Terms/Show/515</a>

Please note that Utilities Reports have a validity of 3 months from the date of purchase.

If you experience difficulties accessing our Terms and Conditions, please telephone our Customer Service Team on 0844 844 9966.





**ATKINS** 

The Hub, 500 Park Avenue Aztec West Bristol BS32 4RZ 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.1168881 Letter Date 04.08.2020 Your Ref: 87365 Date: 05.08.2020

Dear Sir/Madam,

Enquiry Location: Site off Finchley Road, London NW3 7BT.

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.

The address to send the cheque is:

Diversionary Works, Virgin Media, 1 Dove Wynd, Strathclyde Business Park Bellshill ML4 3AL

Or if you prefer to talk, please call the Diversionary Team on: 0800 408 0088 Option 1

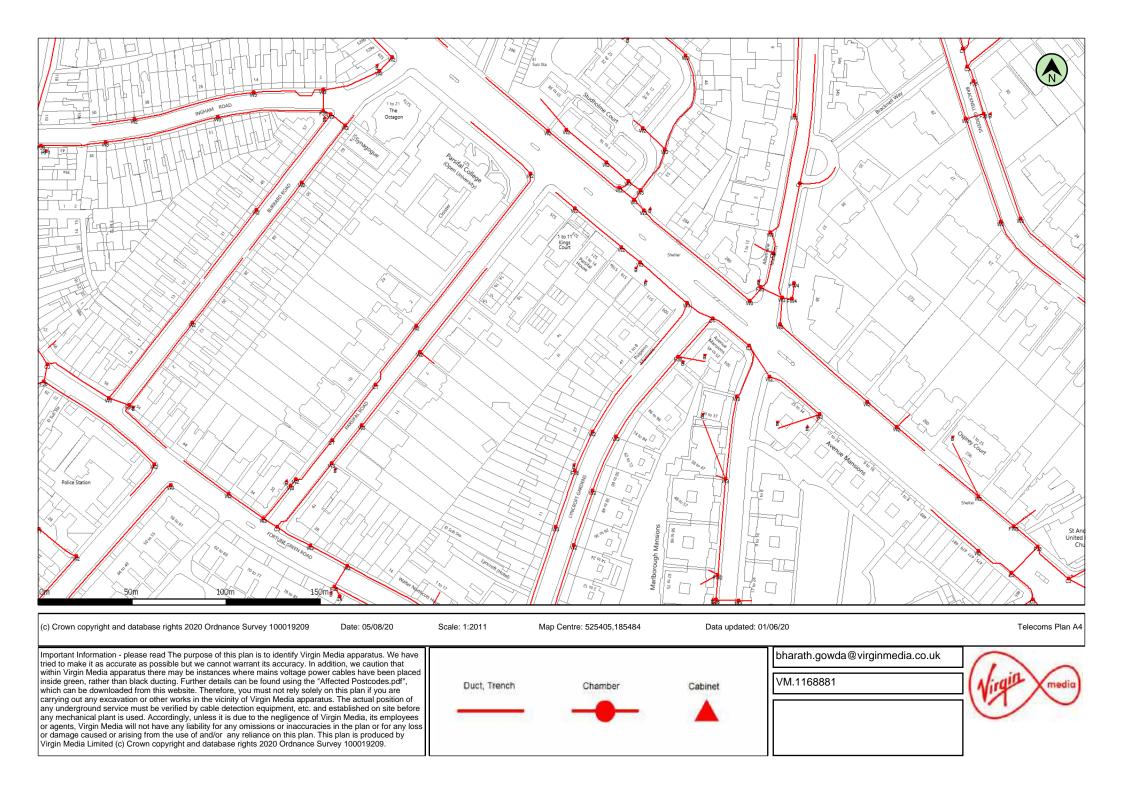
Should your request be in relation to a Residential New Development, Virgin Media would like the opportunity to assist with your diversionary quote and serve your site free of charge, offering your customers the fastest widely available broadband speeds on the market up to 500Mbps.

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

Simply head over to www.virginmedia.com/developer to fill in the enquiry form, and a member of our New Developments team will be in touch within 48 hours. You will also find useful information about additional benefits to you and your site, plus a handy 'developers guide' can be downloaded with detailed installation requirements. Or if you prefer to talk, please call the Diversionary Team on: 0800 408 0088 Option 2

Yours faithfully

National Plant Enquiries Team,





**Sent:** 04 August 2020 14:41

**To:** Utility Solutions GDC Requests **Subject:** GTC Plant Enquiry - Ref- 1442612

Attachments: 1442612.png; GU-DPR-IG-0022 Safe working in the vicinity of utility

networks.pdf

Follow Up Flag: Follow up Flag Status: Completed

Warning: GTC Apparatus Exists in This Area

Our Plant Enquiry Service Ref: 1442612 Your Enquiry Ref: LM 87365/BRK

Dear Chrissy,

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.

#### N9001513

#### Gas

• N9001513-1 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.

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

<u>Electricity</u> Network Damage MUST be reported to ENC on 0800 032 6990. <u>Water</u> Network Damage MUST be reported to IWNL on 02920 028 711 <u>Fibre</u> 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** 

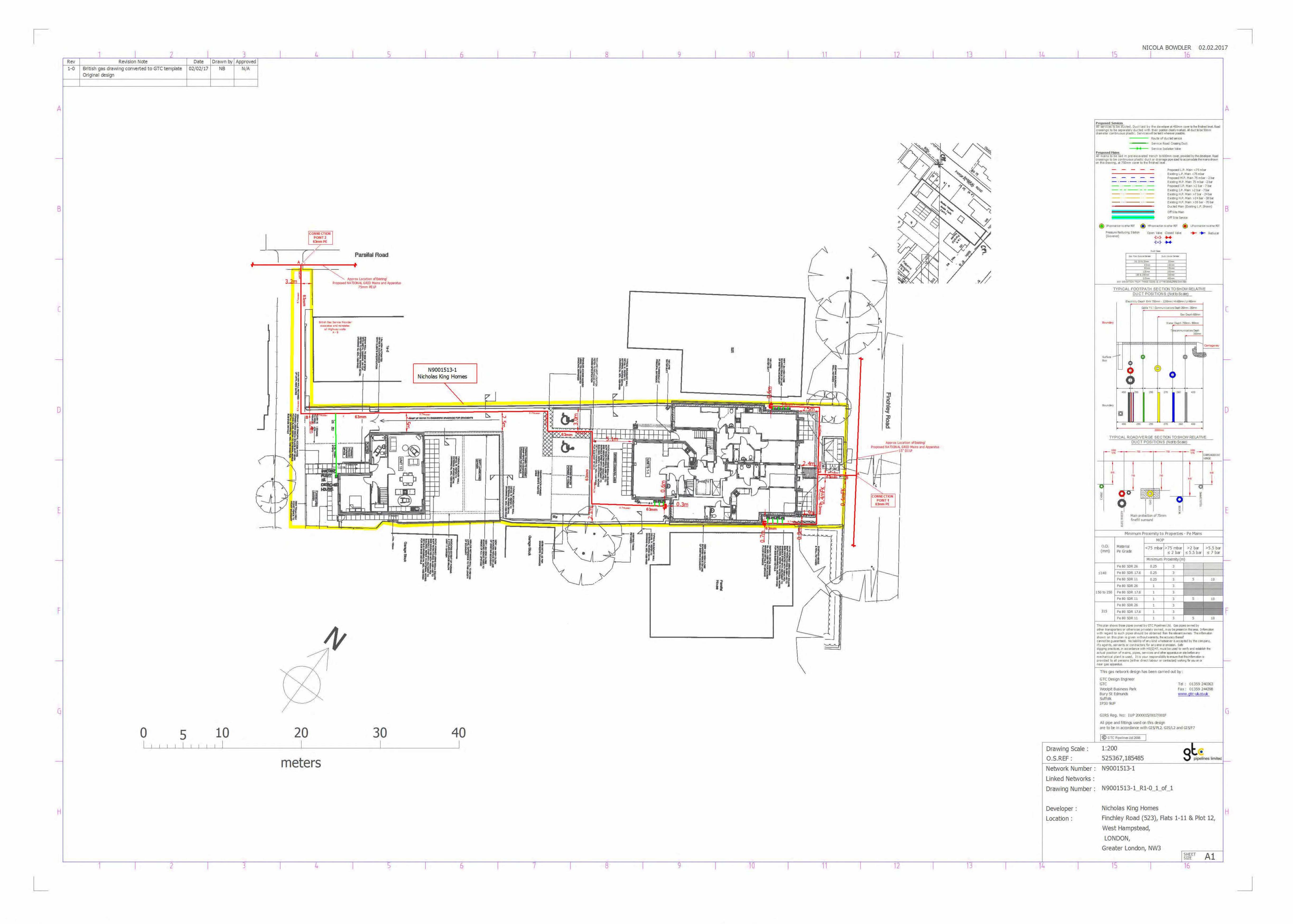
GTC
Synergy House
Woolpit Business Park
Woolpit
Bury St Edmunds
Suffolk, IP30 9UP
Tel: 01359 240363
plant.enquiries@gtc-uk.co.uk

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.







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

(Refer to the HSE Guidance Document HSG47)

#### General

- 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 750mn 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 indictor 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



Registered Office: Newington House 237 Southwark Bridge Road London SE1 6NP

Registered in England and Wales No: 3870728

Company: UK Power Networks (Operations) Limited

Our Ref: 19573267 Your Ref: LM 87365/BRK

Tuesday, 04 August 2020

Christina Elliott 500 Park Avenue Aztec West Almondsbury Bristol BS32 4RZ



Dear Christina Elliott

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









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Company: UK Power Networks (Operations) Limited

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









Registered Office: Newington House 237 Southwark Bridge Road London SE1 6NP

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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.

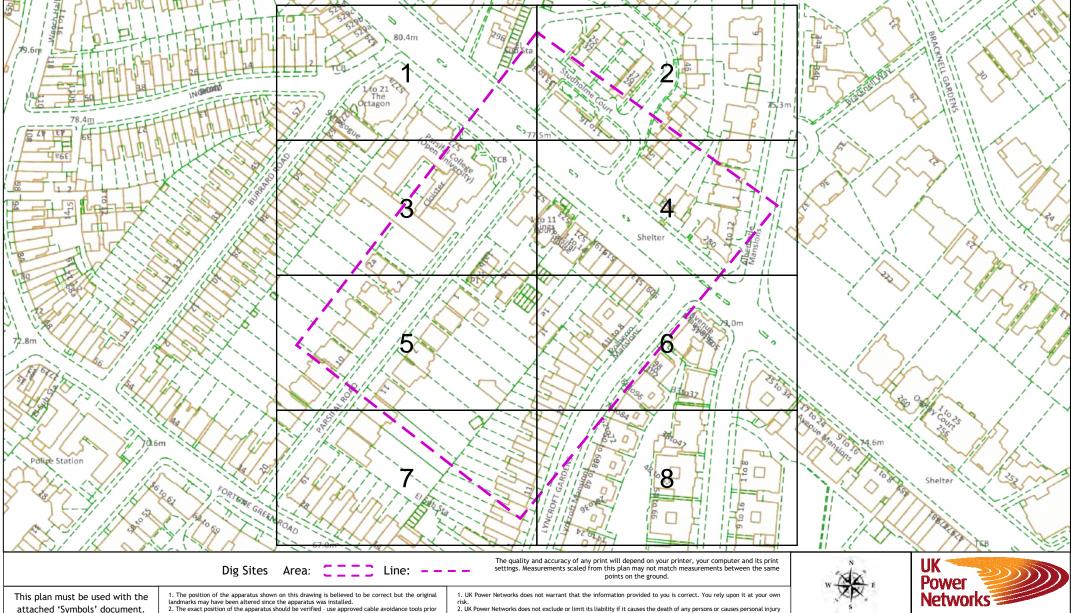
If given a reasonable period of prior notice UK Power Networks will attend on site without charge to advise how and where "goal posts" should be erected. If you wish to use this service, in the first instance please telephone: 0845 6014516 between 08:30 and 17:00 Monday to Friday.

- 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.









Date Requested: 04/08/2020 Job Reference: 19573267 Site Location: 525138 185301

Requested by: Ms Christina Elliott

Your Scheme/Reference: LM

87365/BRK

Scale: 1:2050 (When plotted at A4)

- to excavation using suitable hand tools
- 3. It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks until the exact location of all the cables have been determined.

  4. It must be assumed that there is a service cable into each property, lamp column and street sign,
- etc.

  5. All cables must be treated as being live unless proved otherwise by UK Power Networks.

  6. The information proved must be given to all people working near UK Power Networks plant and the province of the province o equipment. Do not use plans more than 3 months after the issue date for excavation purposes. 7. Please be aware that electric cables/lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.
- 8. Please be aware the Low Voltage Overhead power lines are not currently displayed for the Eastern Region via this service, if you require records on the location of these please contact our Plan Provision team directly via plans@ukpowernetworks.co.uk.
- 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
- 25 Sudjective dylargy or the river deer any loss, das not above you claim, demands any including lenginger, by no breath of statutory dylargy or the river deer any loss, damage, cost, claims, demands, or expenses that you or any third party may suffer or including a required to sing the information provided whether for physical damage to property or any entering suffer or including a return that you or any third party may suffer or including a return that you or any third party may suffer or including a return that you or any third party may suffer or including a return that you or any third party may suffer or including a return that you or any third party may suffer or including a return that you or any third party may suffer or including a return that you or any third party may suffer or including a return that you or any third party may suffer or including a return that you or any third party may suffer or including a return that you or any third party may suffer or including a return that you or any third party may suffer or including a return that you or any third party may suffer or including a return that you or any third party may suffer or including a return that you or any third you of use) or any special or consequential loss or damage whatsoever.

  4. This plan has been provided to you on the basis of the terms of use set out in the covering letter that accompanies
- this plan. If you do not accept and/or do not understand the terms of use set out in the covering letter you must not use the plan and must return it to the sender of the letter.

  5. You are responsible for the security of the information provided to you. It must not be given, sold or made available
- upon payment of a fee to a third party.
- 6. Please Note: The Overview map does not display UK Power Networks electricity network and should not be used for the location of UK Power Networks assets. For detail of the electricity network please view the relevant page as highlighted in the Overview map.

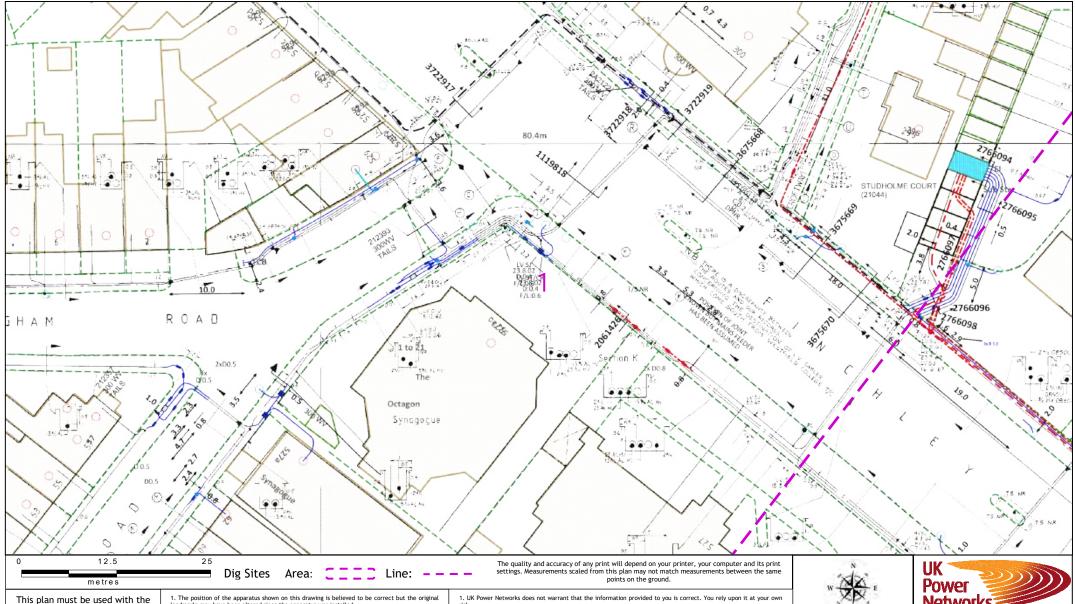


IF IN DOUBT - ASK! PHONE 0800 056 5866 EMERGENCY - If you damage cable or line Phone 0800 783 8838 (24hrs) URGENTLY



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

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



Date Requested: 04/08/2020 Job Reference: 19573267 Site Location: 525138 185301 Requested by: Ms Christina Elliott

Your Scheme/Reference: LM

87365/BRK

Scale: 1:500 (When plotted at A4)

- landmarks may have been altered since the apparatus was installed.
- 2. The exact position of the apparatus should be verified use approved cable avoidance tools prior to excavation using suitable hand tools 3. It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks
- until the exact location of all the cables have been determined.

  4. It must be assumed that there is a service cable into each property, lamp column and street sign,
- 5. All cables must be treated as being live unless proved otherwise by UK Power Networks.
  6. The information proved must be given to all people working near UK Power Networks plant and equipment. Do not use plans more than 3 months after the issue date for excavation purposes. 7. Please be aware that electric cables/lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.
- 8. Please be aware the Low Voltage Overhead power lines are not currently displayed for the Eastern Region via this service, if you require records on the location of these please contact our Plan Provision team directly via plans@ukpowernetworks.co.uk.

- 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
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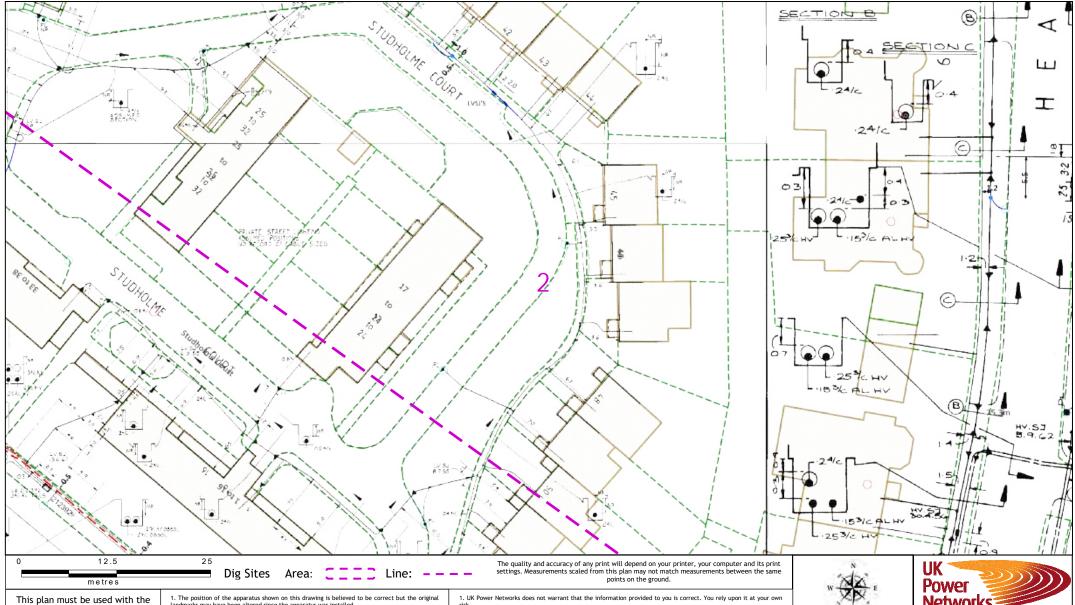


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Your Scheme/Reference: LM

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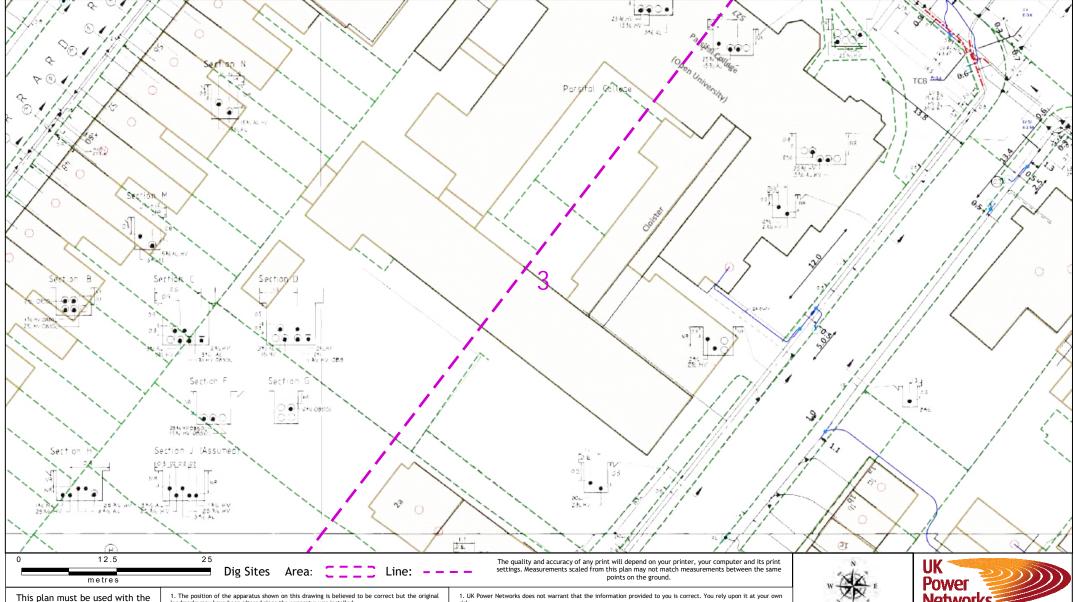


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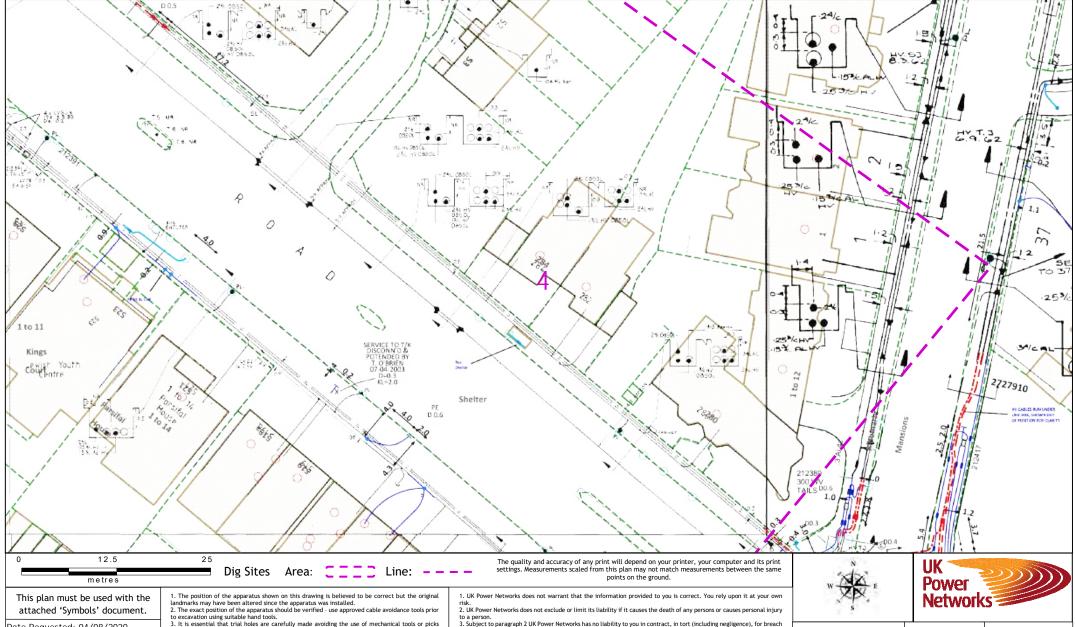


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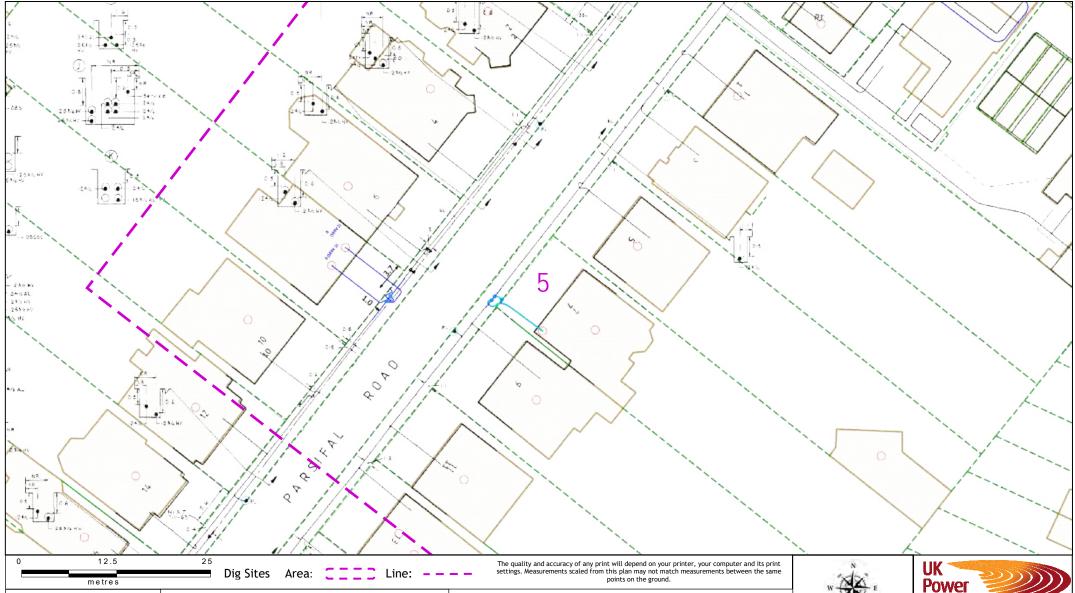
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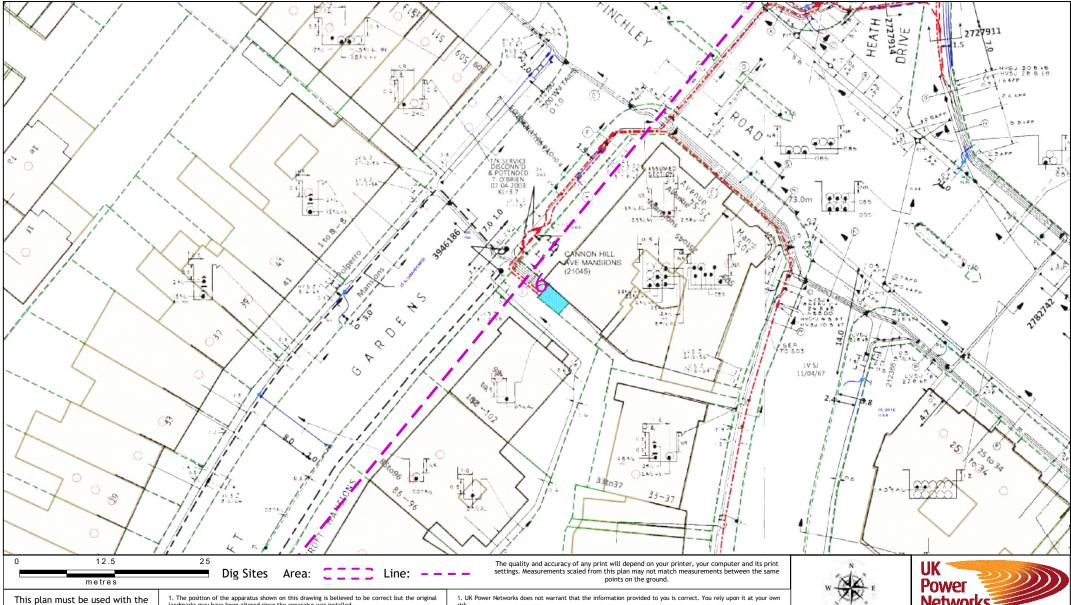


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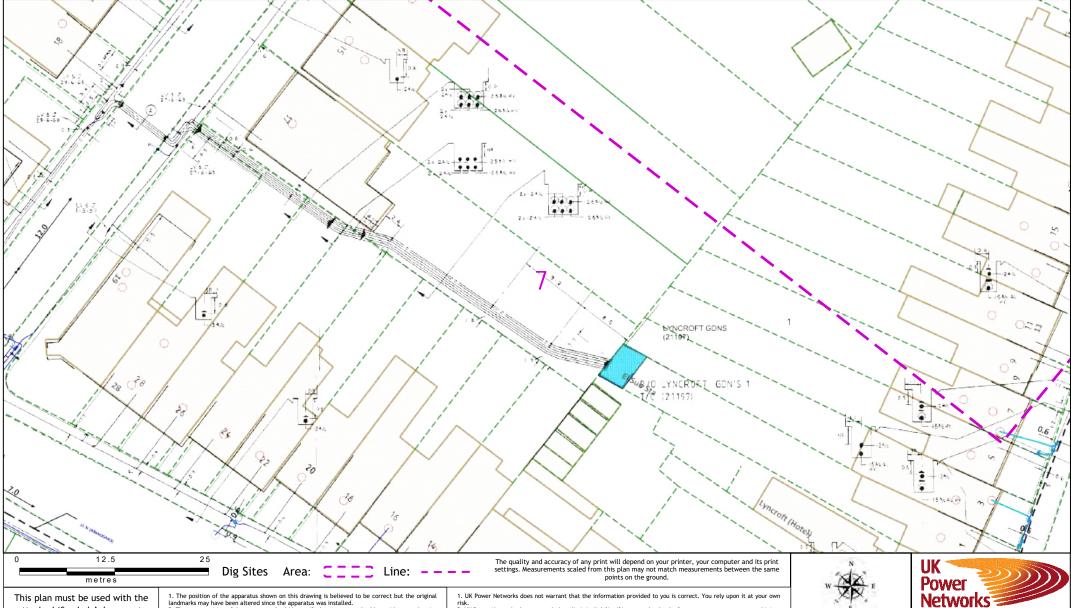


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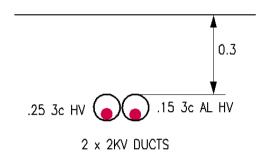
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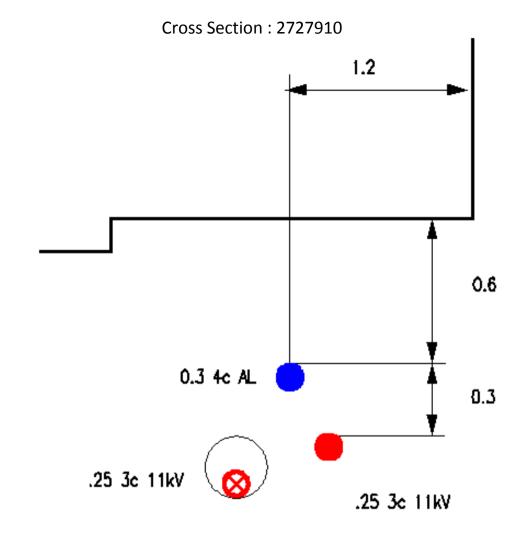
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3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise for any loss, damage, cost, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limit ation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential learner demands. loss or damage whatsoever.

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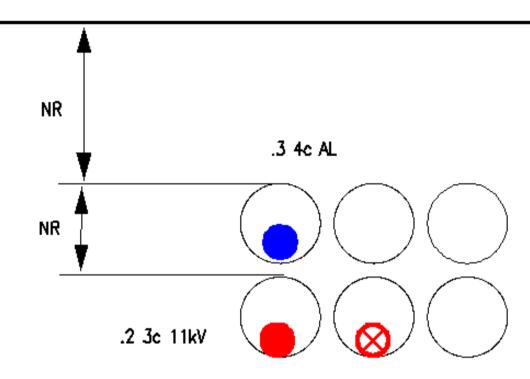




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Cross Section: 2727914



.2 3c 11kV (IDLE)

# Cross Section 2727914

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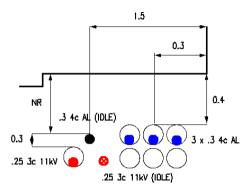
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Cross Section 2727911

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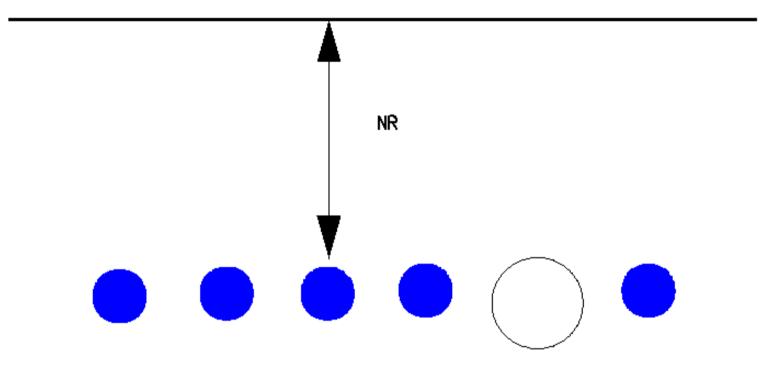


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Cross Section: 2766094 ASSUMED SECTION



5 x .2 4/c

## Cross Section

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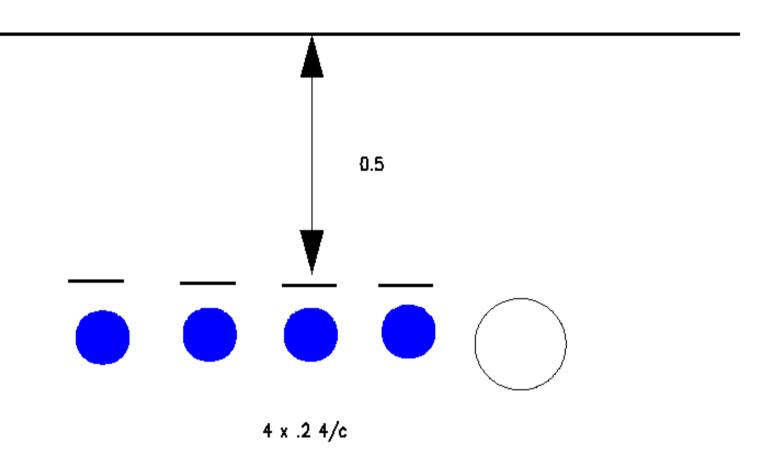


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Cross Section: 2766095



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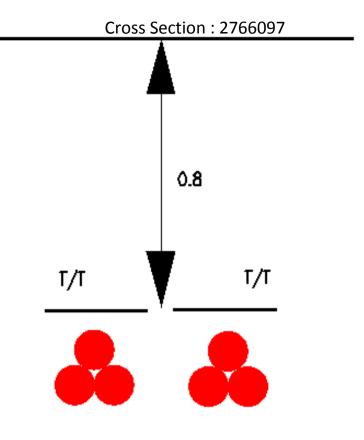




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## 2 x 185cu TRIPLEX HV

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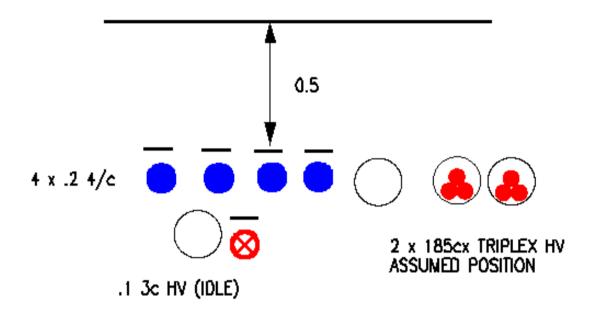
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Cross Section: 2766096



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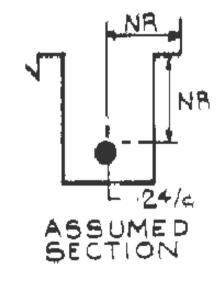
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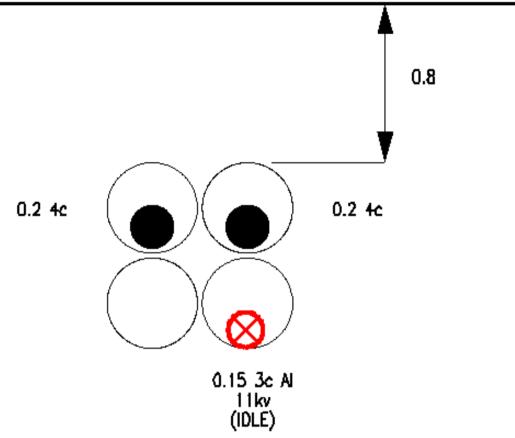




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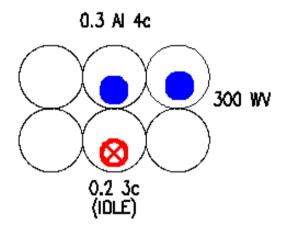
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# Cross Section

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- You rely upon it at your own risk.

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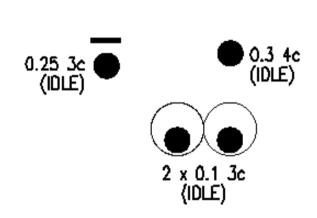
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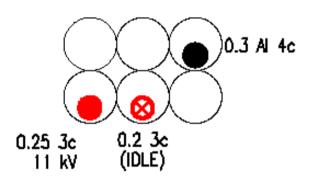
IF IN DOUBT - ASK! PHONE 0800 056 5866 EMERGENCY - If you damage a cable or line Phone 0800 783 8838 (24hrs) URGENTLY





ALWAYS LOOK UP BEFORE Refer to HSE Guidance note GS6





# Cross Section 3675670

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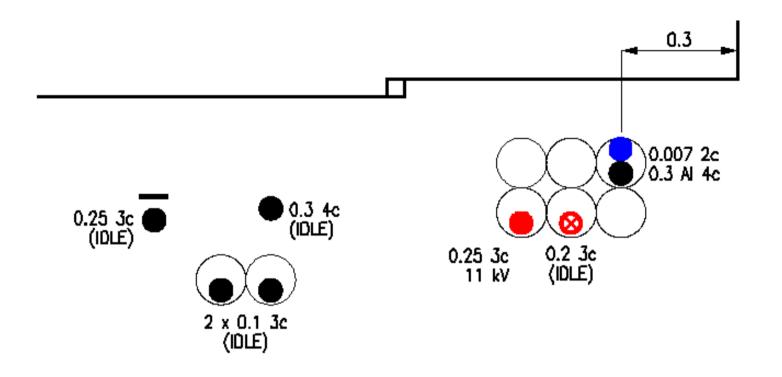
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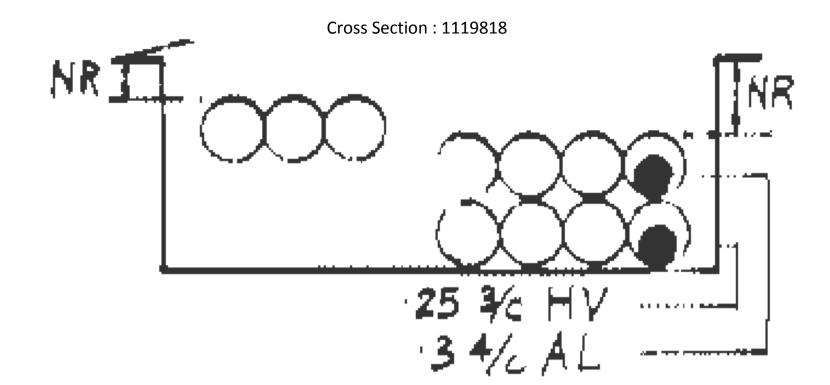
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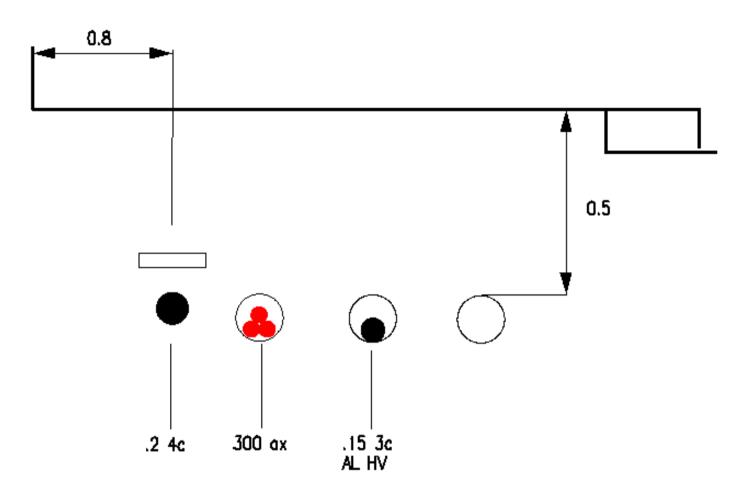
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ALWAYS LOOK UP BEFORE YOU START WORK Refer to HSE Guidance note GS6

## Cross Section F12 Off (4126N



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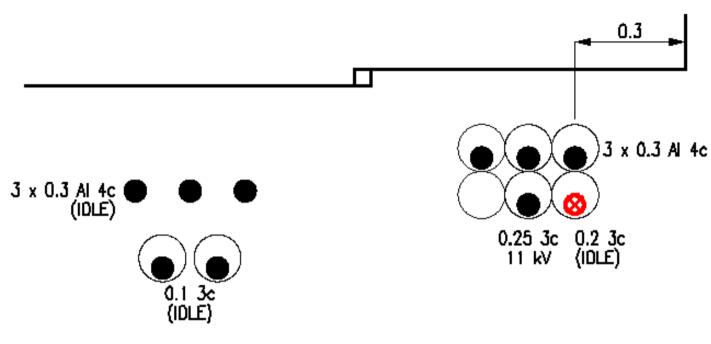
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ALWAYS LOOK UP BEFORE Refer to HSE Guidance note GS6



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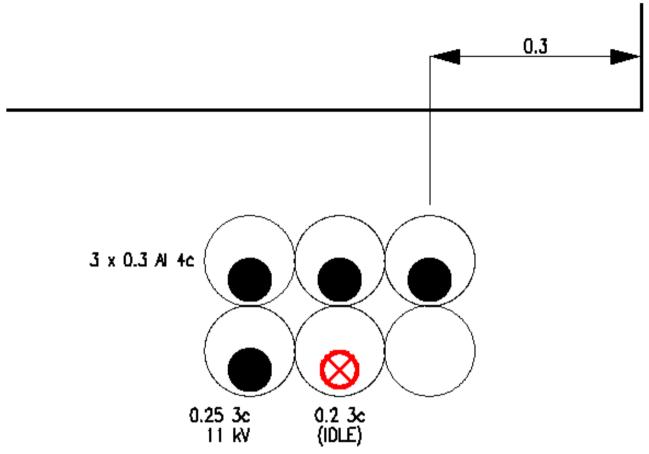
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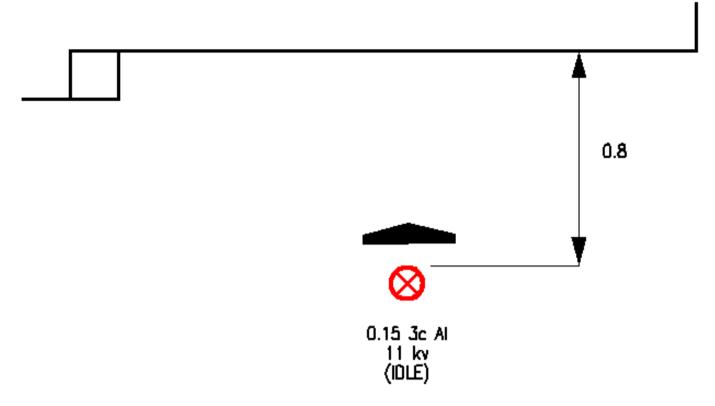
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ALWAYS LOOK UP BEFORE Refer to HSE Guidance note GS6

NORTHERN AREA 261 City Road, EC1V 1LE Tel. 071 251 5161 Caution

Not all services shown. Landon Electricity Board

Based upon the Ordnance Survey Map
with the sanction of the Controller of H.M.
Stationery Office , Crown Copyright Reserved 1: 250 TQ 2585 SW-N-NE Issue new microfiche when revisions are made to this record. For details refer to service cards. DRAWN BY - K. NOLAN DATE - 89
TRACED BY - K. WONG DATE - 22-1-92
CHECKED BY:- DATE:--34.23/2

record lerofiche

L.B.CAMDEN L.B.CAMDEN TQ 2585 SW-N -NE 254 253 TQ 2585 SW-N-NE 253 L.B.CAMDEN L.B.CAMDEN NORTHERN AREA 261 City Road, EC1V 1LE Tel. 071-251 5161 Caution.

Not all services shown.

For details refer to service cards. LE LONDON ELECTRICITY 1:250 TQ 2585 SW-N-SE Issue new microfiche when revisions are made to this record. DRAWN BY: K.NOLAN DATE: 26-7-90
TRACED BY: K.NONG DATE: 29-11-93
CHECKED BY: DATE:

Issue new microfiche when revisions are made to this record.



# NetWork Records NetMAP Symbols Booklet - London

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

Version 1.2

Released October 2010

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

## Index:-

Page no:	Contents:
1	Guidance notes.
2	The area covered by this guide.
3	Scenery.
4	Scenery (UK Power Networks use only-boxed red)
7	Primary distribution cables (EHV).
8	Secondary distribution cables (LV/HV).
9	Cable terminology.
10	Cable size abbreviations.
11	Cable ducts.
12	Other NetMAP symbols.
15	Services.
17	Symbols used in cross sections.
19	Abbreviations used in cross sections.
20	Typical plan and cross section representations:  All areas: NetMAP/vector.
	All areas: composite raster style 1.
	Ex-Western area and Holborn: main and ways.
	The City of London: single line. Finsbury and Shoreditch: multi-single line style 1.
	Ex-North Eastern area: HV/LV.
	Ex-North Eastern area: multi-single line style 2.
00	Ex-North Eastern area: composite raster style 2.
23	Regional NetMAP anomalies - general overview.
24	Region 1: ex-Western area.
25	Region 2: ex-Northern area.
27	Region 3: ex-North eastern area.
29	Region 4: ex-South Eastern area.
30	Region 5: ex Southern area.

#### **Guidance notes.**

#### Important notice:

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

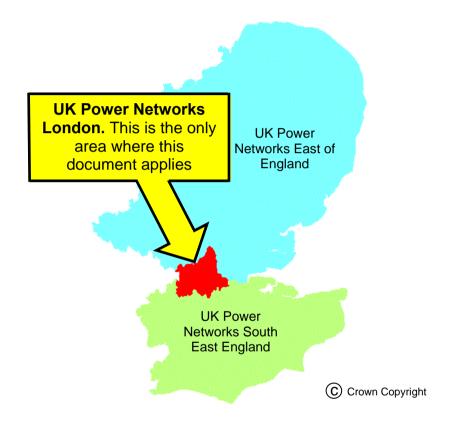
Tel: 08000 565866.

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



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

# The area covered by this guide:



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

Scenery			
NetMAP system	Scanned image	Description	
NetMAP system  TUNNEL  NOT APPLICABLE	Scanned image	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  Borough or City boundary and UK Power Networks boundary	
{	or — — —	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)	
illo maton	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)	
section continued on next page			

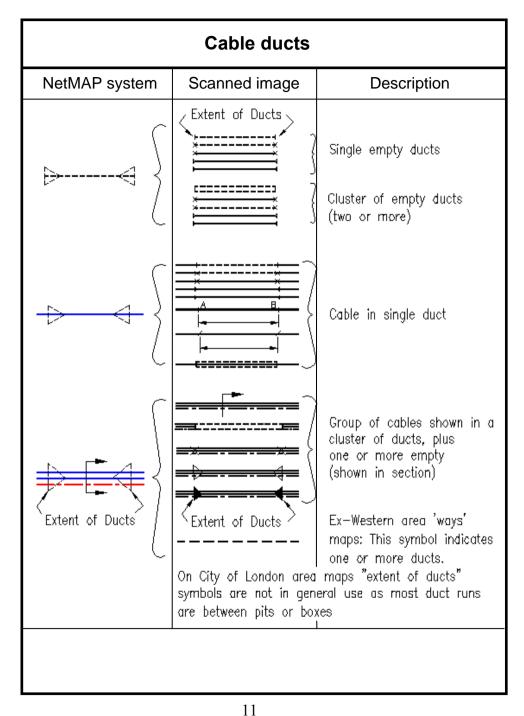
Scenery for UK Power Networks use only - boxed in red		
NetMAP system	Scanned image	Description
	Not applicable	Nature - Local Nature Reserve (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Nature - National Nature Reserve (only visible to UK Power Networks and their 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)

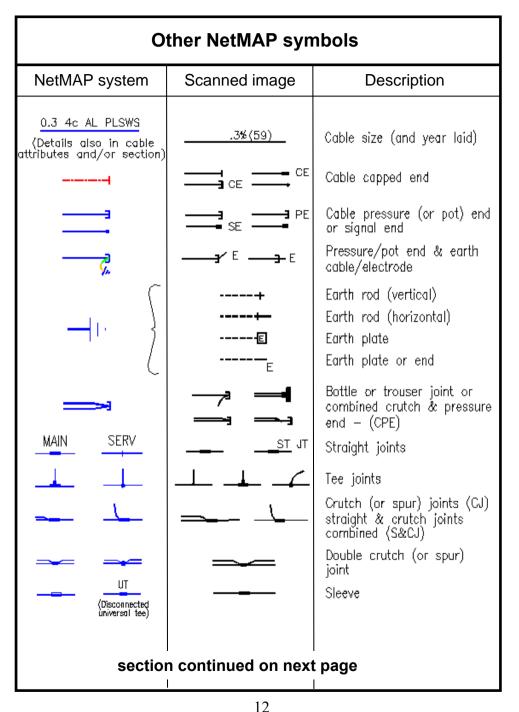
Primary distribution cables			
NetMAP system	Scanned image	Description	
EHY CABLE Solid  EHY CABLE Gas  EHY CABLE Oil  Cable stop  Shallow	—— EHV Coble Route 259 —— Not applicable —— 5—— 5—— 5 ——	UK Power Networks route (11,000 , 22,000 to 132,000 volts) Oil/gas cable stop Part of UK Power Networks cable route where cover is less than normal	

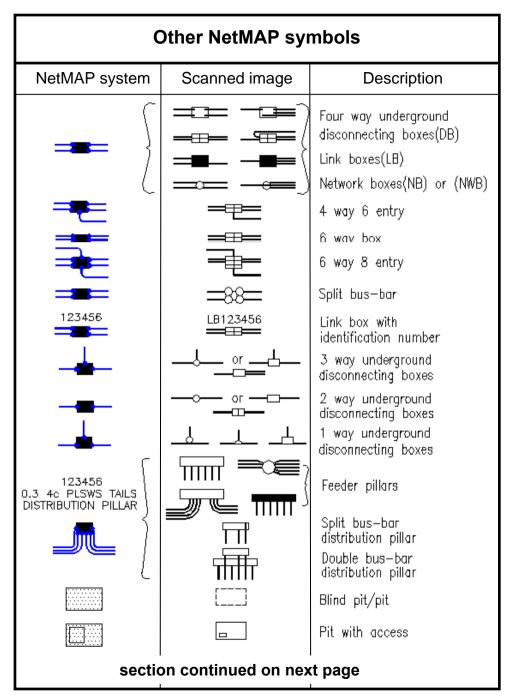
Secondary distribution cables			
NetMAP system	Scanned image	Description	
(20kV) (11kV) (6.6kV)	.3 (AL) <sup>3</sup> / <sub>c</sub> .15 ¾ .3 (AL) <sup>3</sup> / <sub>c</sub> 185 ½ .0225 ½  Not applicable	HV cable (up to 20kV)  3 phase LV cable (230V or 400/230V) 1 or 2 phase LV cable (230V or 400/230V) 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	

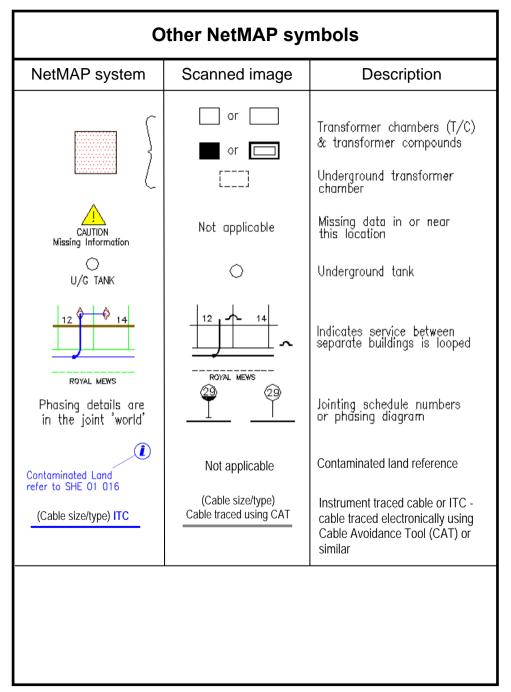
Cable terminology			
NetMAP system	Scanned image	Description	
PL PLS PLST or PLSW PLSTS PLSTS PLSWS PLSW PLS PLST or PLSW PLST PLSW PLST PLSW AI Cu WV CS PVC EPR XLPE SOL ax cx	PL PLS PLA PLTS PLDT PLWS PLBW LC & H LC & A LC & BA DSTA STA SWA AI Cu WV CS PVC EPR XLPE SOLIDAL TRIPLEX TRIPLEX	Paper Lead 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 & Bright Armoured Double 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)	

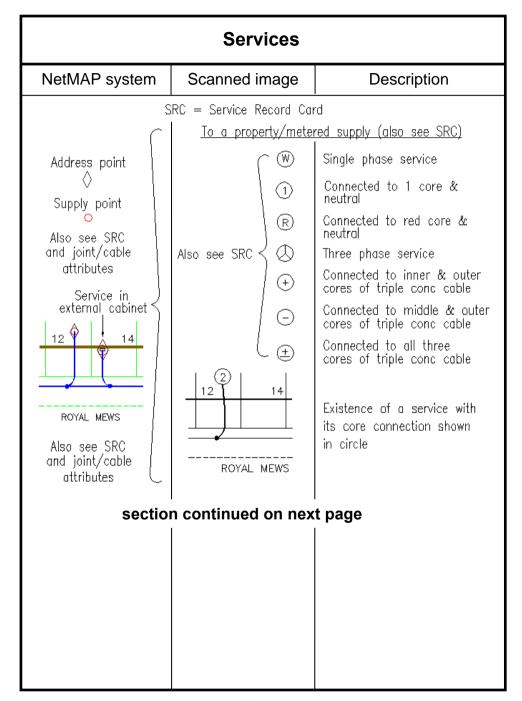
Cable size abbreviations			
NetMAP system	Scanned image	Description	
1c c/c t/c 4c 3c CNE	% % % or T/cc % % (см)	Single core. Concentric cores Triple concentric cores Four cores Three cores and concentric neutral — not of the Waveconal type	
2c s/c 3c DC P Pr	% (or Tw) % % DC P	Two cores (or twin) Split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

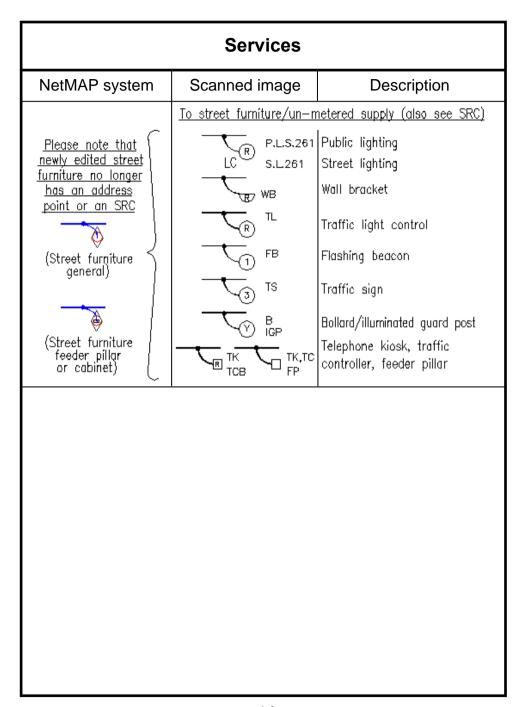












Symbols used in cross sections			
NetMAP sys	stem	Scanned image	Description
•		• •	Cable laid direct
•		● ●	Cable laid in duct
⊗		Ø 8	Blocked duct (sometimes used for unidentified cables)
0		0 0	Single earthenware duct
○ 2¥" S		0	Single steel pipe
			Square cable duct
00		00	Group of circular ducts
60		88	Group of circular ducts (Sykes)
			Group of square ducts (Doulton)
	(	□°¹□ ↔	Cable trough
$\nabla$	}	(000)	Bitumen casing (Crompton)
		( <u> </u>	Bitumen filled iron trough (Trunks)
8		8	Bitumen casing (Tri-case)
	sectio	n continued on nex	kt page

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

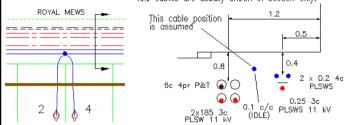
## Typical plan and cross section representations

## Multi-line composite NetMAP/vector representation

All areas - drawn/redrawn using NetMAP GIS

Cables shown in cross section viewed in direction of arrow.

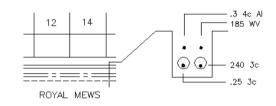
Idle cables are usually shown in section only.



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.



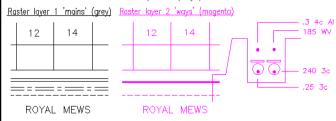
Applies to all composite raster records within the unshaded areas of the anomalies map.
Can also be found in some shaded areas — in particular the ex—North Eastern, shaded greas

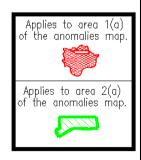
## Main and ways representation – dual layer raster

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

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



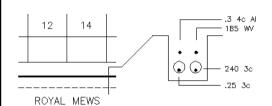


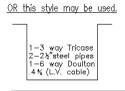
### Typical plan and cross section representations

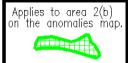
## Single line representation - raster or vector data

The City of London only

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



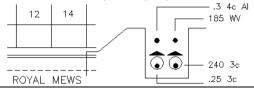


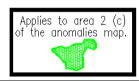


## Multi-single line representation general (style 1)

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.





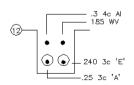
# HV and LV map representation – dual layer raster Ex-North Eastern area only

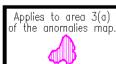
HV and LV cables are shown on separate raster layers. These layers MUST be read in conjunction with each other. Sections are shown on a combined supplementary section sheet in numerical sequence.

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







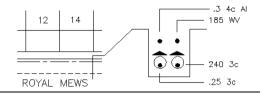


## Typical plan and cross section representations

#### 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.

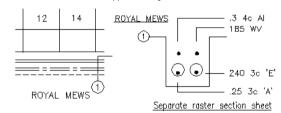




## Multi-line representation - composite raster (style 2)

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.





#### Important note regarding sections:

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

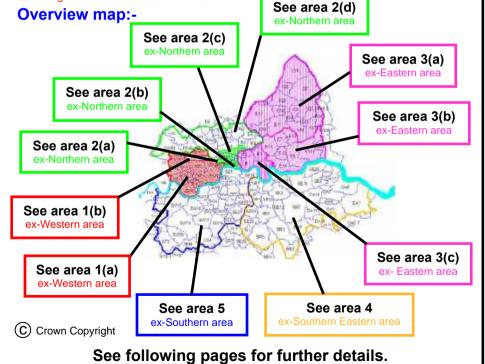
# Regional NetMAP Anomalies - general overview:

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

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

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

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



# 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 wavs representation:

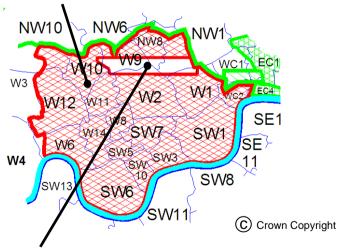
This system consists of two maps layers for the same area.

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

There are some enlargement sheets, cross sections and jointing details. EHV routes are shown on either the mains or the wavs 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 1(b) (un-hatched )

#### Composite single layer (style 1) maps:

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

# Region 2 ex-Northern area

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

## Region 2(a) (hatched )

Covers part of WC1 and WC2 (Holborn).

#### Mains and ways representation:

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

- 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.



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.

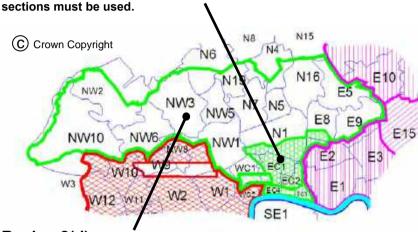
## Region 2(c) (hatched )



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



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

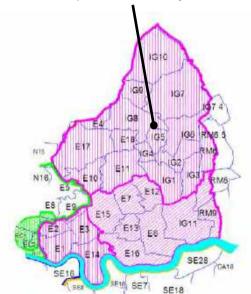
#### Separate HV and LV representation maps:

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

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



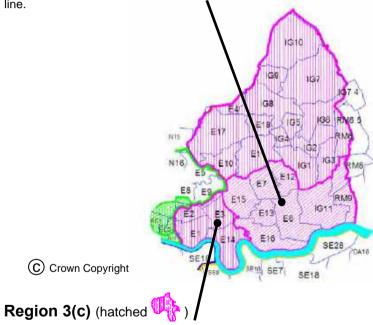
C Crown Copyright

#### 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 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



#### 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

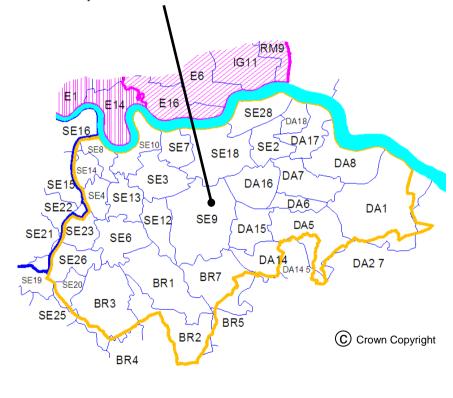
This region includes Lewisham, Greenwich, Bromley, Bexley and Dartford.

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.



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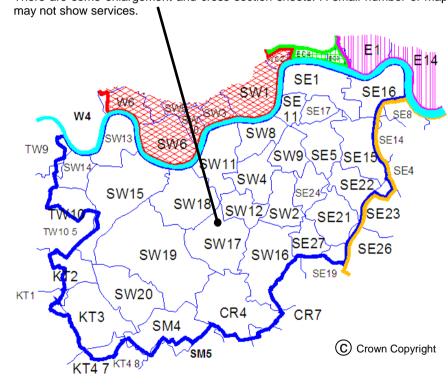
# Region 5 ex-Southern area

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.











# THINK . . .

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



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.

# **W** 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

Inswich

IP38AA

plans@ukpowernetworks.co.uk

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

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

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

# WHAT TO DO

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



# **WHAT NOT TO DO**

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

# **(7)** 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.



# DANGER OF DEATH

YOU DIG

Call the network operator

0800 587 3243

www.ukpowernetworks.co.uk

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

