

NOT AFFECTED SERVICES (Linesearch Members)	
Utility Company	
	Angus Energy
	AWE Pipeline
	B & D Energy
	Balfour Beatty Investments Limited
	BOC Limited (A Member of the Linde Group)
	Box Broadband
	BP Exploration Operating Company Limited
	BPA
	Carrington Gas Pipeline
	CATS Pipeline c/o Wood Group PSN
	Cemex
	Centrica Storage Ltd
	CNG Services Ltd
	Concept Solutions People Ltd
	ConocoPhillips (UK) Ltd
	D.S.Smith
	Diamond Transmission Corporation
	DIO (MOD Abandoned Pipelines)
	DIO (MOD Live Pipelines)
	E. ON UK CHP Limited
	EDF Energy Renewables Ltd
	EirGrid
	Eleclink Limited
	Electricity North West Limited

Energy Assets Networks
ENI & Himor c/o Penspen Ltd
EnQuest NNS Limited
EP Langage Limited
ESP Utilities Group
ESSAR
Eso Petroleum Company Limited
EuNetworks Fiber UK Ltd
EXA Infrastructure
Exolum Pipeline System
Fulcrum Electricity Assets Limited
Fulcrum Pipelines Limited
Gamma
Gas Networks Ireland (UK)
Gateshead Energy Company
Gigaclear Ltd
Harbour Energy
Heathrow Airport Ltd
Humbly Grove Energy
IGas Energy
INEOS FPS Pipelines
INEOS Manufacturing (Scotland and TSEP)
INOVYN ChlorVinyls Limited
INOVYN Enterprises Limited
Intergen (Coryton Energy or Spalding Energy)
Jurassic Fibre Ltd
Last Mile
Mainline Pipelines Limited

Manchester Jetline Limited
Manx Cable Company
Marchwood Power Ltd (Gas Pipeline)
Melbourn Solar Limited
Moray East Offshore Windfarm
MUA Group
National Grid Electricity Distribution
National Grid Electricity Transmission
National Grid Gas Transmission
Neos Networks
Northumbrian Water Group
NPower CHP Pipelines
NTT Global Data Centers EMEA UK Ltd
NYnet Ltd
Ogi
Oikos Storage Limited
Ørsted
Palm Paper Ltd
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
SAS Utility Services Ltd

Scottish and Southern Electricity Networks
Scottish Power Generation
Seabank Power Ltd
SES Water
SGN
Shell
Shell NOP
SP Energy Networks
Squire Energy Networks
SSE Generation Ltd
SSE Transmission
SSE Utility Solutions Limited
Tata Communications (c/o JSM Construction Ltd)
Total Colnbrook Pipelines
Total Finaline Pipelines
Transmission Capital
Uniper UK Ltd
University of Cambridge Granta Backbone Network
Vattenfall
Veolia ES SELCHP Limited
Veolia ES Sheffield Ltd
Voneus Broadband
VPI Power Limited
Wales & West Utilities
West of Duddon Sands Transmission Ltd
Westminster City Council
Zayo Group UK Ltd c/o JSM Group Ltd

EMERGENCY CONTACTS

EMERGENCY CONTACTS	
Utility Company	Details
WATER	
Thames Water	0800 714 614
ELECTRICITY	
UK Power Networks	East England 0800 783 8838
	London 0800 028 0247
	South East England 0800 7838 866
TELECOMS	
BT (Openreach)	0800 023 2023
Virgin Media	01227 768427

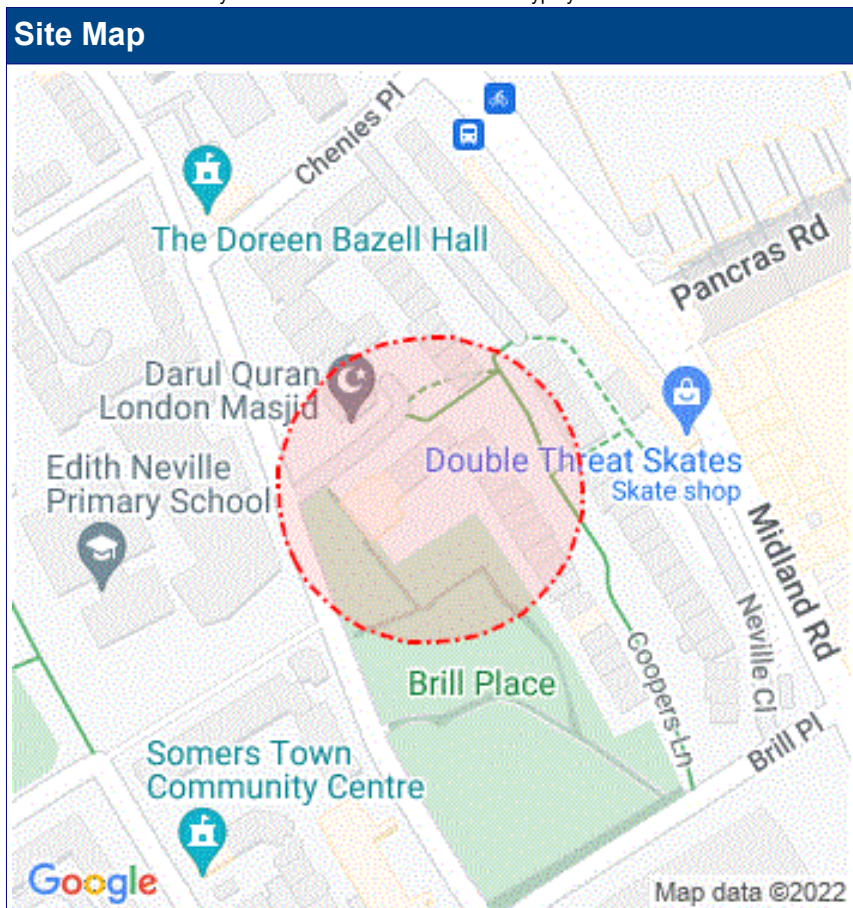


LINESEARCH REQUEST

Enquirer			
Name	Miss Rebecca Dabbs	Phone	01442 416652
Company	RSK Environmental Ltd	Mobile	Not Supplied
Address	18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT		
Email	rcdabbs@rsk.co.uk		

Enquiry Details			
Scheme/Reference	1922663 Hampden Close		
Enquiry type	Initial Enquiry	Work category	Utility Works
Start date	30/11/2022	Work type	Single excavations site (1.5m or sr
End date	30/11/2022	Site size	95 metres diameter
Searched location	NW1 1HW	Work type buffer*	25 metres
Confirmed location	529824 183227		
Site Contact Name	Not Supplied	Site Phone No	Not Supplied
Description of Works			

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



Asset Owners

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

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

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

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

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

Below are three lists of asset owners:

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

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

List of affected LSBUD members

Asset Owner	Phone/Email	Emergency Only	Status
Cadent Gas	0800688588	0800111999	Await response
National Grid Electricity Transmission	08000014282	0800404090	Await response
UK Power Networks	08000565866	08000565866	Await response

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

List of not affected LSBUD members

Angus Energy	AWE Pipeline	B & D Energy Limited
Balfour Beatty Investments Limited	BOC Limited (A Member of the Linde Group)	Box Broadband
BP Exploration Operating Company Limited	BPA	Carrington Gas Pipeline
CATS Pipeline c/o Wood Group PSN	Cemex	Centrica Storage Ltd
CNG Services Ltd	Concept Solutions People Ltd	ConocoPhillips (UK) Teesside Operator Ltd
D.S.Smith	Diamond Transmission Corporation	DIO (MOD Abandoned Pipelines)
DIO (MOD Live Pipelines)	E.ON UK CHP Limited	EDF Energy Renewables Ltd
EirGrid	Eleclink Limited	Electricity North West Limited
Energy Assets Networks	ENI & Himor c/o Penspen Ltd	EnQuest NNS Limited
EP Lantage Limited	ESP Utilities Group	ESSAR
Esso Petroleum Company Limited	euNetworks Fiber UK Ltd	EXA Infrastructure
Exolum Pipeline System	Fulcrum Electricity Assets Limited	Fulcrum Pipelines Limited
Gamma	Gas Networks Ireland (UK)	Gateshead Energy Company
Gigaclear Ltd	Harbour Energy	Heathrow Airport LTD
Humbly Grove Energy	IGas Energy	INEOS FPS Pipelines
INEOS Manufacturing (Scotland and TSEP)	INOVYN ChlorVinyls Limited	INOVYN Enterprises Limited
Intergen (Coryton Energy or Spalding Energy)	Jurassic Fibre Ltd	Last Mile
Mainline Pipelines Limited	Manchester Jetline Limited	Manx Cable Company
Marchwood Power Ltd (Gas Pipeline)	Melbourn Solar Limited	Moray East Offshore Windfarm
MUA Group Limited	National Grid Electricity Distribution	National Grid Gas Transmission
Neos Networks	Northumbrian Water Group	NPower CHP Pipelines
NTT Global Data Centers EMEA UK Ltd	NYnet Ltd	Ogi
Oikos Storage Limited	Ørsted	Palm Paper Ltd
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
SAS Utility Services Ltd	Scottish and Southern Electricity Networks	Scottish Power Generation
Seabank Power Ltd	SES Water	SGN

Shell	Shell NOP	SP Energy Networks
Squire Energy Networks	SSE Generation Ltd	SSE Transmission
SSE Utility Solutions Limited	Tata Communications (c/o JSM Construction Ltd)	Total Colnbrook Pipelines
Total Finaline Pipelines	Transmission Capital	Uniper UK Ltd
University of Cambridge Granta Backbone Network	Vattenfall	Veolia ES SELCHP Limited
Veolia ES Sheffield Ltd	Voneus Limited	VPI Power Limited
Wales and West Utilities	West of Duddon Sands Transmission Ltd	Westminster City Council
Zayo Group UK Ltd c/o JSM Group Ltd		

The following Non-LSBUD Members may have assets in your search area. It is **YOUR RESPONSIBILITY** to contact them before proceeding. Please be aware this list is not exhaustive and it is your responsibility to identify and contact all asset owners within your search area.

Non-LSBUD members (Asset owners not registered on LSBUD)

Asset Owner	Preferred contact method	Phone	Status
BT	https://www.swns.bt.com/pls/mbe/welcome.home	08000232023	Not Notified
CityFibre	asset.team@cityfibre.com	033 3150 7282	Not Notified
Colt	plantenquiries@catelecomuk.com	01227768427	Not Notified
Equans	nrswa.uk@equans.com	0800 130 3600	Not Notified
GTC	https://pe.gtc-uk.co.uk/PlantEnqMembership	01359240363	Not Notified
London Underground	lulcedip@tube.tfl.gov.uk	02071261542	Not Notified
Lumen Technologies	plantenquiries@instalcom.co.uk	02087314613	Not Notified
Mobile Broadband Network Limited	mbnl.plant.enquiries@turntown.com	01212 621 100	Not Notified
Network Rail	OPBuriedServicesEnquiries@networkrail.co.uk	01904523401	Not Notified
Sky UK Limited	nrswa@sky.uk	02070323234	Not Notified
Sota	SOTA.plantenquiries@instalcom.co.uk		Not Notified
Teliasonera	check-network@arelion.com	0800526015	Not Notified
Thames Water	http://www.digdat.co.uk	08450709145	Not Notified
Utility assets Ltd	assetrecords@utilityassets.co.uk		Not Notified
Verizon Business	osp-team@uk.verizonbusiness.com	01293611736	Not Notified
Virgin Media	http://www.digdat.co.uk	08708883116	Not Notified
Vodafone	osm.enquiries@atkinglobal.com	01454662881	Not Notified

Disclaimer

Please refer to LineSearchbeforeUdig's Terms of Use for full terms of use available at www.linesearchbeforeudig.co.uk

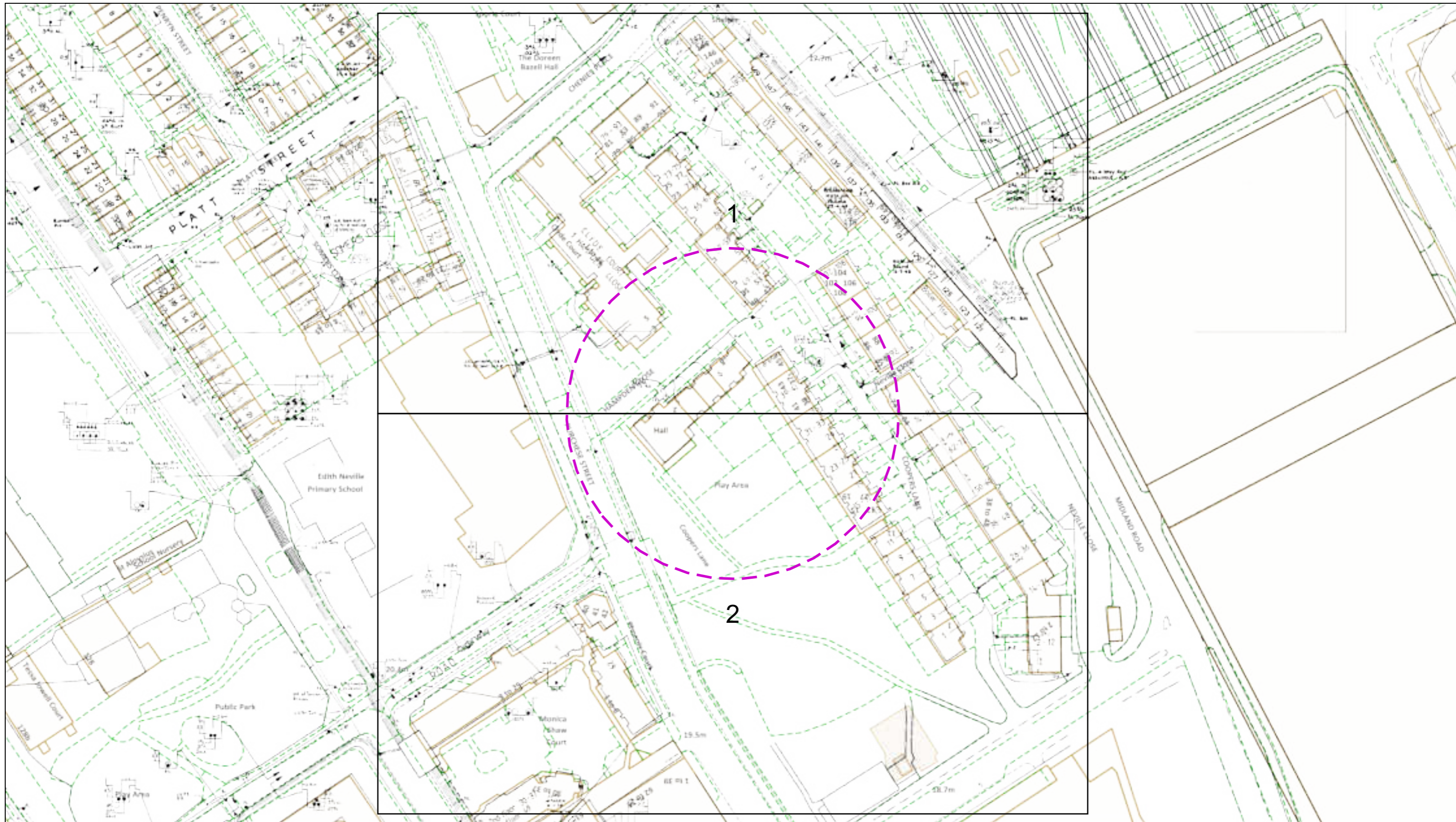
The results of this Enquiry are personal to the Enquirer and shall not be shared with or relied upon by any other party. The asset information on which the Enquiry results are based has been provided by LSBUD Members, therefore LineSearchbeforeUdig will provide no guarantee that such information is accurate or reliable nor does it monitor such asset information for accuracy and reliability going forward. There may also be asset owners which do not participate in the enquiry service operated by LineSearchbeforeUdig, including but not exclusively those set out above. Therefore, LineSearchbeforeUdig cannot make any representation or give any guarantee or warranty as to the completeness of the information contained in the enquiry results or accept any responsibility for the accuracy of the mapping images used. LineSearchbeforeUdig and its employees, agents and consultants accept no liability (save that nothing in this Enquiry Confirmation excludes or limits our liability for death or personal injury arising from our negligence, or our fraud or fraudulent misrepresentation, or any other liability that cannot be excluded or limited by English law) arising in respect thereof or in any other way for errors or omissions including responsibility to any person by reason of negligence.



AFFECTED UTILITY SERVICES

Electricity

UKPN



Dig Sites Area:  Line: 

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

This plan must be used with the attached 'Symbols' document.
 Date Requested: 28/11/2022
 Job Reference: 27755342
 Site Location: 529776 183179
 Requested by:
 Miss Rebecca Dabbs
 Your Scheme/Reference: 1922663
 Hampden Close
 Scale: 1:1025 (When plotted at A3)

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

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

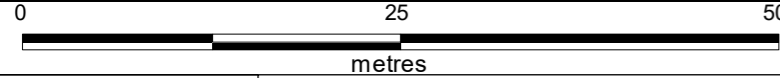
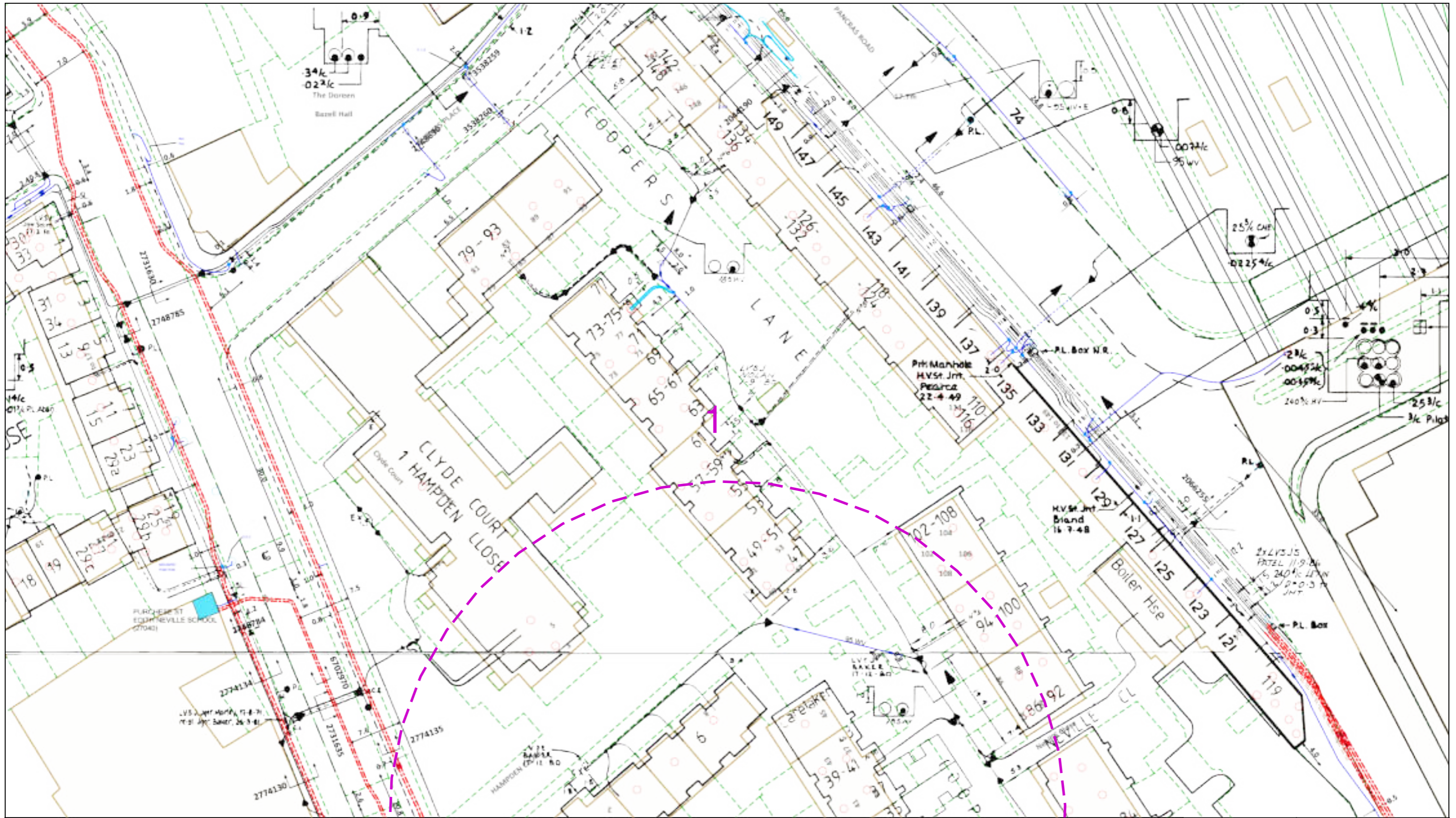


IF IN DOUBT - ASK!
 PHONE 0800 056 5866
 EMERGENCY - If you
 damage a cable or line
 Phone 0800 783 8838
 (24hrs) URGENTLY



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

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



Dig Sites Area: Line:

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Date Requested: 28/11/2022
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 Site Location: 529776 183179
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 Hampden Close
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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 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.
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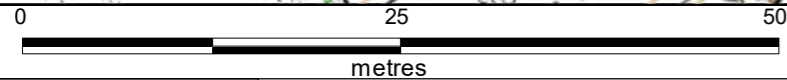
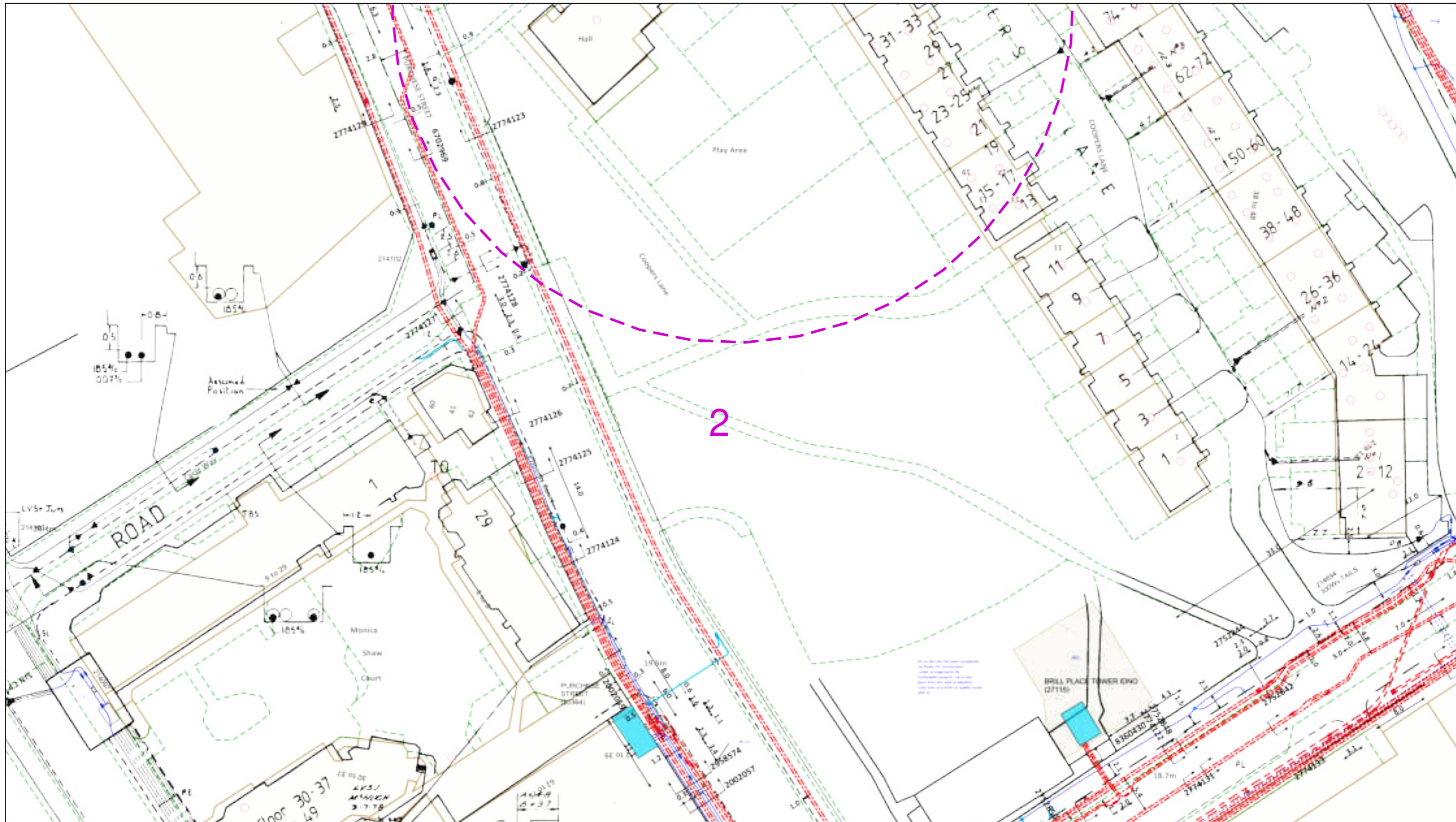


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 Your Scheme/Reference: 1922663
 Hampden Close
 Scale: 1:500 (When plotted at A3)

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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/tines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.


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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 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.
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 (24hrs) URGENTLY



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 BEFORE
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 Guidance note GS6



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Cross Section : 2066255

.007 2c



NR 4c

Cross Section 2066255

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 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.
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 2. UK Power Networks does not exclude or limit its liability if it causes the death of any persons or causes personal injury to a person.
 3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise for any loss, damage, cost, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.
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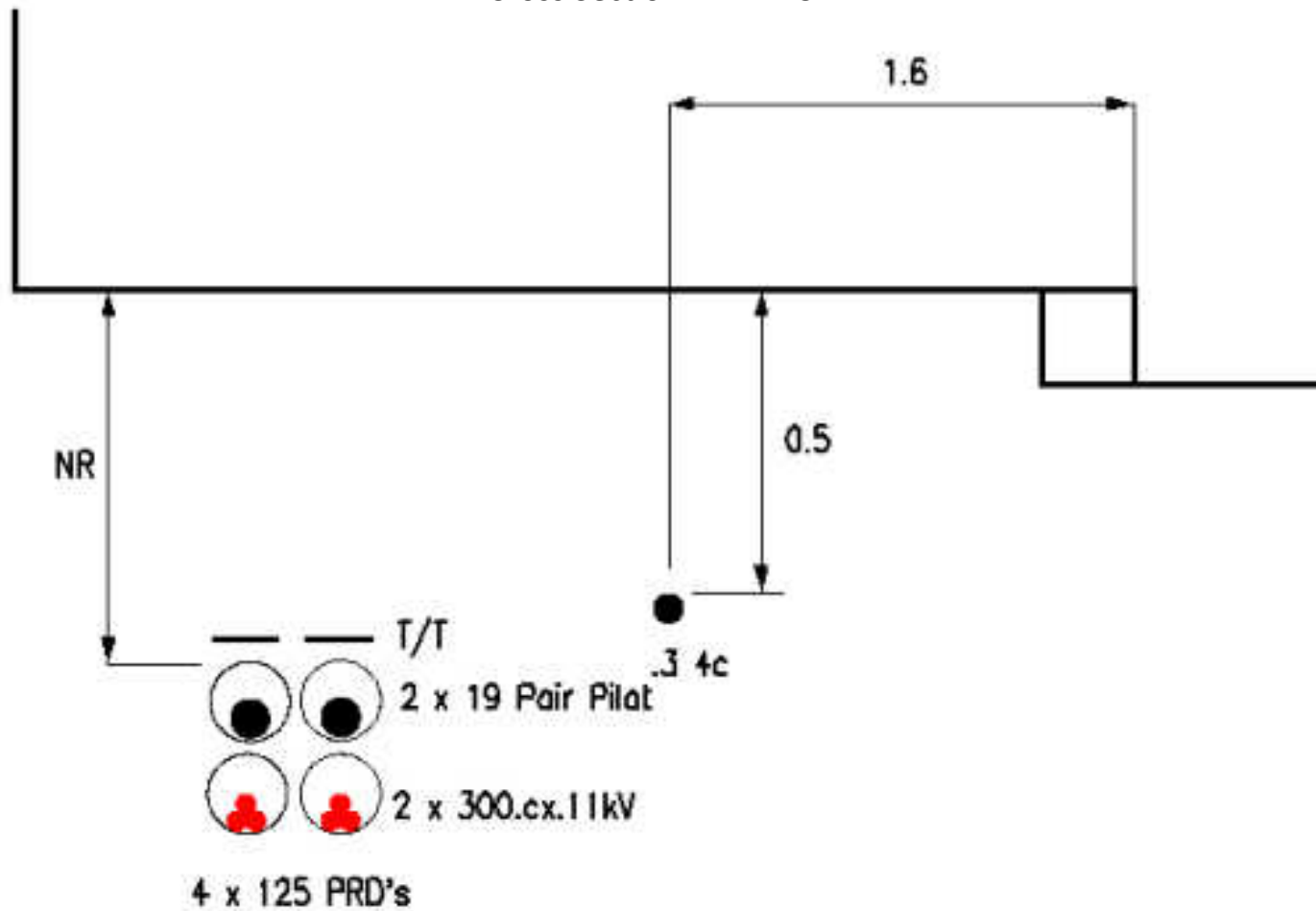
IF IN DOUBT - ASK PHONE
 0800 930 3996
**EMERGENCY - if you damage
 a cable or the
 Phone 800 733 6036 (24hrs)
 URGENT**



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

Maps produced at 1:2500 scale are geo-referenced which show LV mains cables and overhead lines (in some cases all voltages). Prior to carrying out excavation you must refer to the 1:100 records to determine the location of all known underground plant and equipment.

Cross Section : 2774134



Cross Section 2774134

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

1. UK Power Networks does not warrant the information provided to you is correct. You rely upon it at your own risk.
 2. UK Power Networks does not accept any liability if it causes the death of any persons or causes personal injury.
 3. Subject to paragraph 2, UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise for any loss, damage, cost, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.
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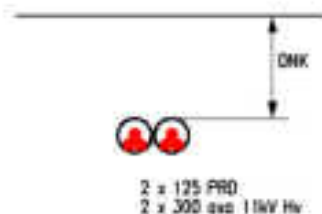
IF IN DOUBT - ASK PHONE
 0800 330 3000
**EMERGENCY - if you damage
 a cable or the
 Phone 800 730 600 (24hr)
 URGENT!**



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

Maps produced at 1:2500 scale are geo-referenced which show 10 metre cables and overhead lines (in some cases at 500m). Prior to carrying out excavation you must refer to the 1:100 records to determine the location of all known underground plant and equipment.

Cross Section : 6702970



Cross Section
6702970

1. The position of the apparatus shown on this drawing is believed to be correct but the original landmarks may have been altered since the apparatus was installed.
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3. If it is essential that trial holes are carefully made avoiding the use of mechanical tools or picks until the exact location of all the cables have been determined.
4. It must be assumed that there is a service cable into each property, lamp column and street sign, etc.
5. All cables must be treated as being live unless proved otherwise by UK Power Networks.
6. The information proved must be given to all people working near UK Power Networks plant and equipment. Do not use plans more than 3 months after the issue date for excavation purposes.
7. Please be aware that electric cables/lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.

1. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk.
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5. You are responsible for the security of the information provided to you. It must not be given, sold or made available upon payment of a fee to a third party.

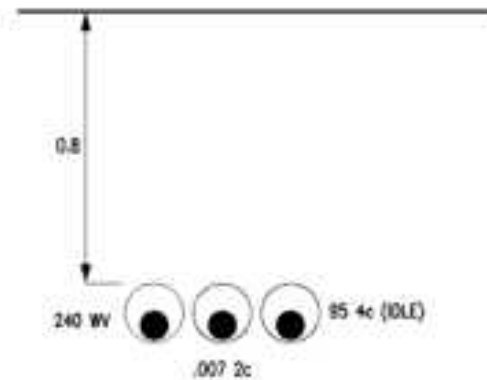
IF IN DOUBT - ASSE PHONE
0800 930 3996
EMERGENCY - if you damage
a cable or the
Phone 800 731 6236 (24hr)
URGENT



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

Maps produced at 1:2500 scale are geo-referenced which show 11kV cables and overhead lines (in some cases all voltages). Prior to carrying out excavation you must refer to the 1:100 records to determine the location of all known underground plant and equipment.

Cross Section : 2731635



Cross Section
2731635

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

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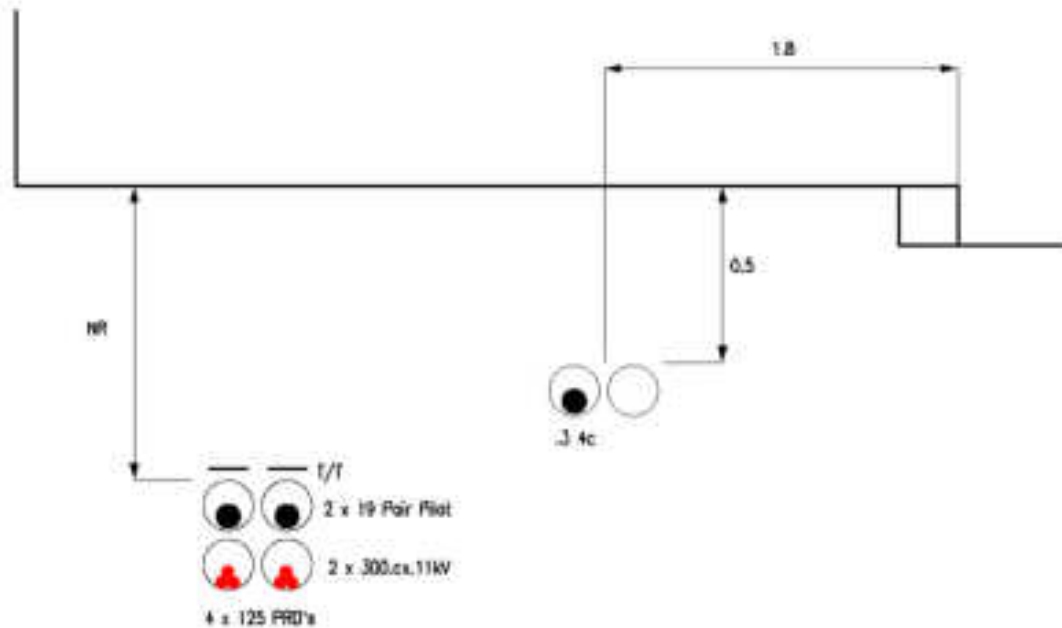
IF IN DOUBT - ASSE PHONE
 0800 930 3996
EMERGENCY - if you damage a cable or the
Phone 800 731 635 (24hr)
URGENT



ALWAYS LOOK UP BEFORE YOU START WORK
 Refer to HSE Guidance note G56

Maps produced at 1:2500 scale are geo-referenced which show 15 metre cables and overhead lines (in some cases at 10 metres). Prior to carrying out excavation you must refer to the 1:100 records to determine the location of all known underground plant and equipment.

Cross Section : 2748784



Cross Section
2748784

1. The position of the apparatus shown on this drawing is believed to be correct but the original landmarks may have been altered since the apparatus was installed.
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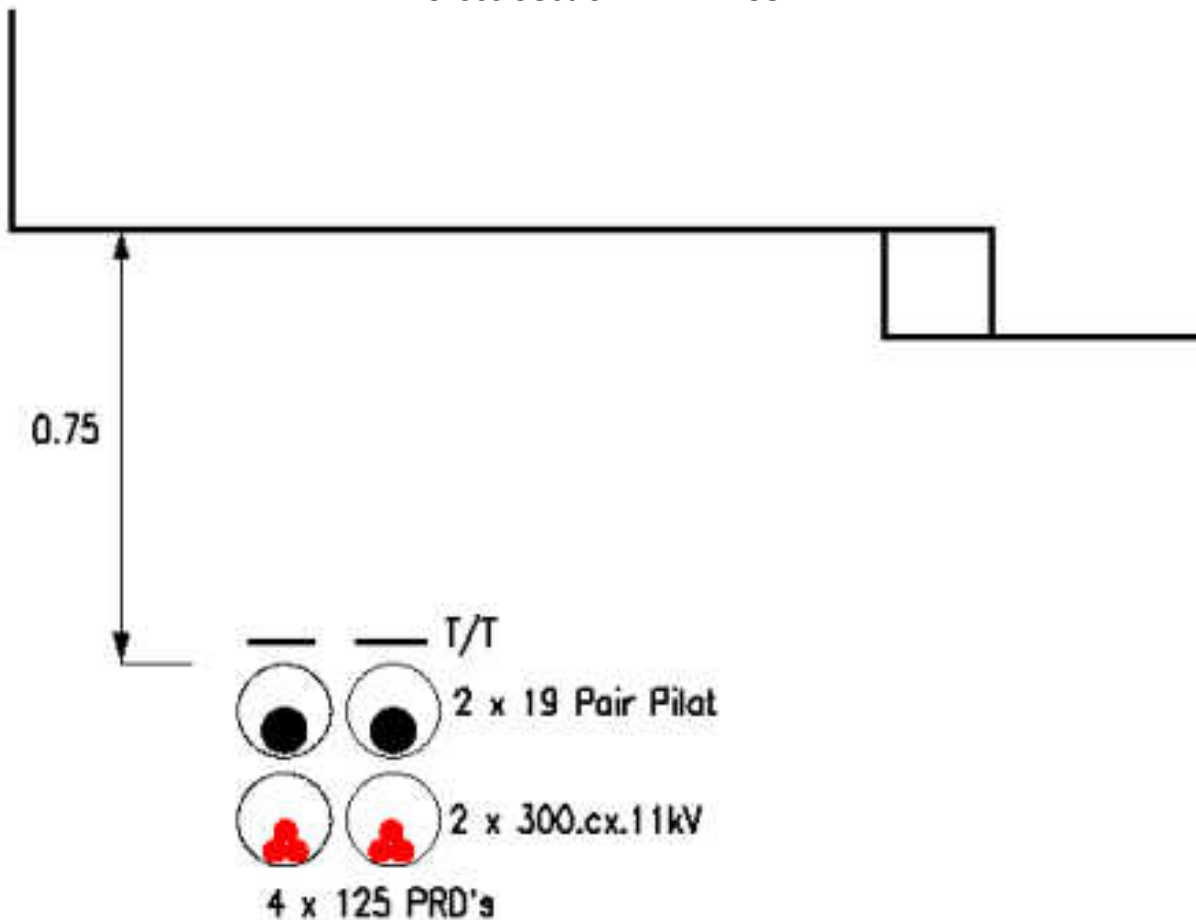
IF IN DOUBT - ASK PHONE
 0800 330 3000
**EMERGENCY - if you damage
 a cable or the
 Phone 800 733 6036 (24hr)
 URGENT!!**



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

Maps produced at 1:2500 scale are geo-referenced which show 10 metre cables and overhead lines (in some cases at 50 metres). Prior to carrying out excavation you must refer to the 1:100 records to determine the location of all known underground plant and equipment.

Cross Section : 2774135



Cross Section

2774135

1. The position of the apparatus shown on this drawing is believed to be correct but the original landmarks may have been altered since the apparatus was installed.
2. The exact position of the apparatus should be verified - use approved cable avoidance tools prior to excavation using suitable hand tools.
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4. It must be assumed that there is a service cable into each property, lamp column and street sign, etc.
5. All cables must be treated as being live unless proved otherwise by UK Power Networks.
6. The information proved must be given to all people working near UK Power Networks plant and equipment. Do not use plans more than 3 months after the issue date for excavation purposes.
7. Please be aware that electric cables/lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.

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 serious injury to a person.

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

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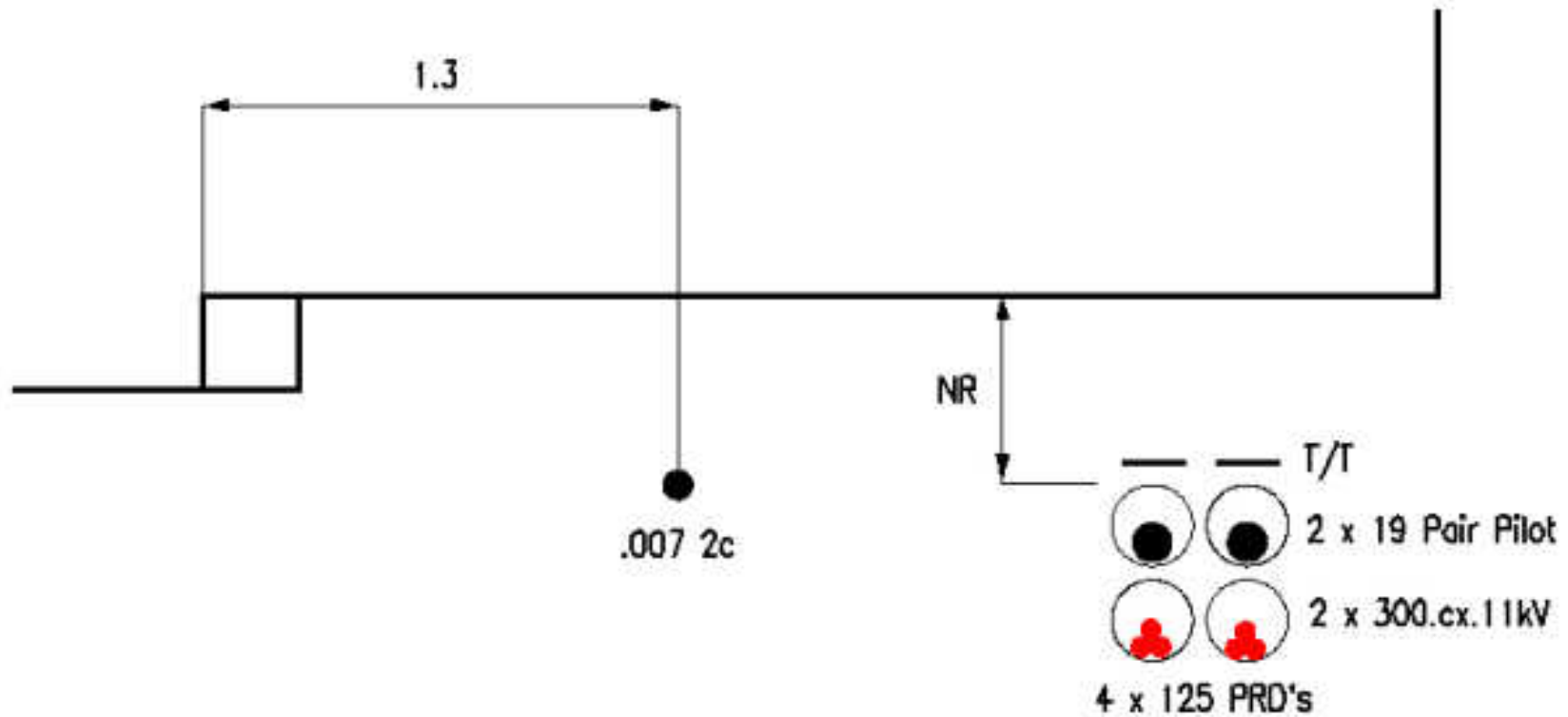
IF IN DOUBT - ASK PHONE
0800 330 3000
EMERGENCY - if you damage
a cable or the
Phone 800 733 6336 (24hrs)
URGENT 11



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

Maps produced at 1:2500 scale are geo-referenced which show LV mains cables and overhead lines (in some cases all voltages). Prior to carrying out excavation you must refer to the 1:100 records to determine the location of all known underground plant and equipment.

Cross Section : 2774123



Cross Section 2774123

1. The position of the apparatus shown on this drawing is believed to be correct but the original landmarks may have been altered since the apparatus was installed.
 2. The exact position of the apparatus should be verified - use approved cable avoidance tools prior to excavation using suitable hand tools.
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 4. It must be assumed that there is a service cable into each property, lamp column and street sign, etc.
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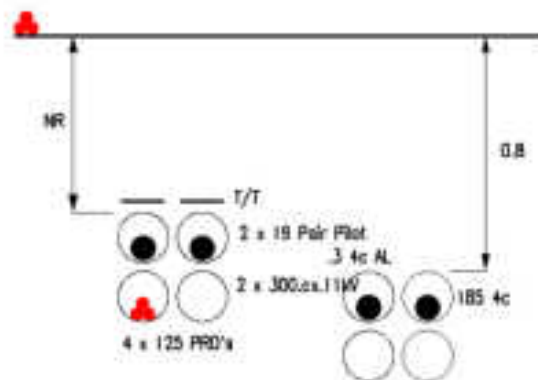
IF IN DOUBT - ASSE PHONE
 0800 930 3006
**EMERGENCY - If you damage
 a cable or the
 Phone 800 731 0034 (24hrs)
 URGENT!**



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

Maps produced at 1:2500 scale are geo-referenced which show LV mains cables and overhead lines (in some cases all cables). Prior to carrying out excavation you must refer to the 1:1000 records to determine the location of all known underground plant and equipment.

Cross Section : 2774127



Cross Section
2774127

1. The position of the apparatus shown on this drawing is believed to be correct but the original landmarks may have been altered since the apparatus was installed.
 2. The exact position of the apparatus should be verified - use approved cable avoidance tools prior to excavation using suitable hand tools.
 3. If it is essential that trial holes are carefully made avoiding the use of mechanical tools or picks until the exact location of all the cables have been determined.
 4. It must be assumed that there is a service cable into each property, lamp column and street sign, etc.
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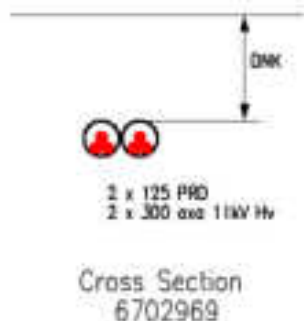
IF IN DOUBT - ASSE PHONE
 0800 930 3996
**EMERGENCY - if you damage
 a cable or the
 Phone 800 733 6036 (24hrs)
 URGENT!**



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

Maps produced at 1:2500 scale are geo-referenced which show LV mains cables and overhead lines (in some cases all utilities). Prior to carrying out excavation you must refer to the 1:100 records to determine the location of all known underground plant and equipment.

Cross Section : 6702969



1. The position of the apparatus shown on this drawing is believed to be correct but the original landmarks may have been altered since the apparatus was installed.
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IF IN DOUBT - ASSE PHONE
0800 930 3996
EMERGENCY - if you damage
a cable or the
Phone 800 733 6236 (24hr)
URGENT





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

Maps produced at 1:2500 scale are geo-referenced which show 11kV cables and overhead lines (in some cases all voltages). Prior to carrying out excavation you must refer to the 1:100 records to determine the location of all known underground plant and equipment.

Cross Section : 2774128

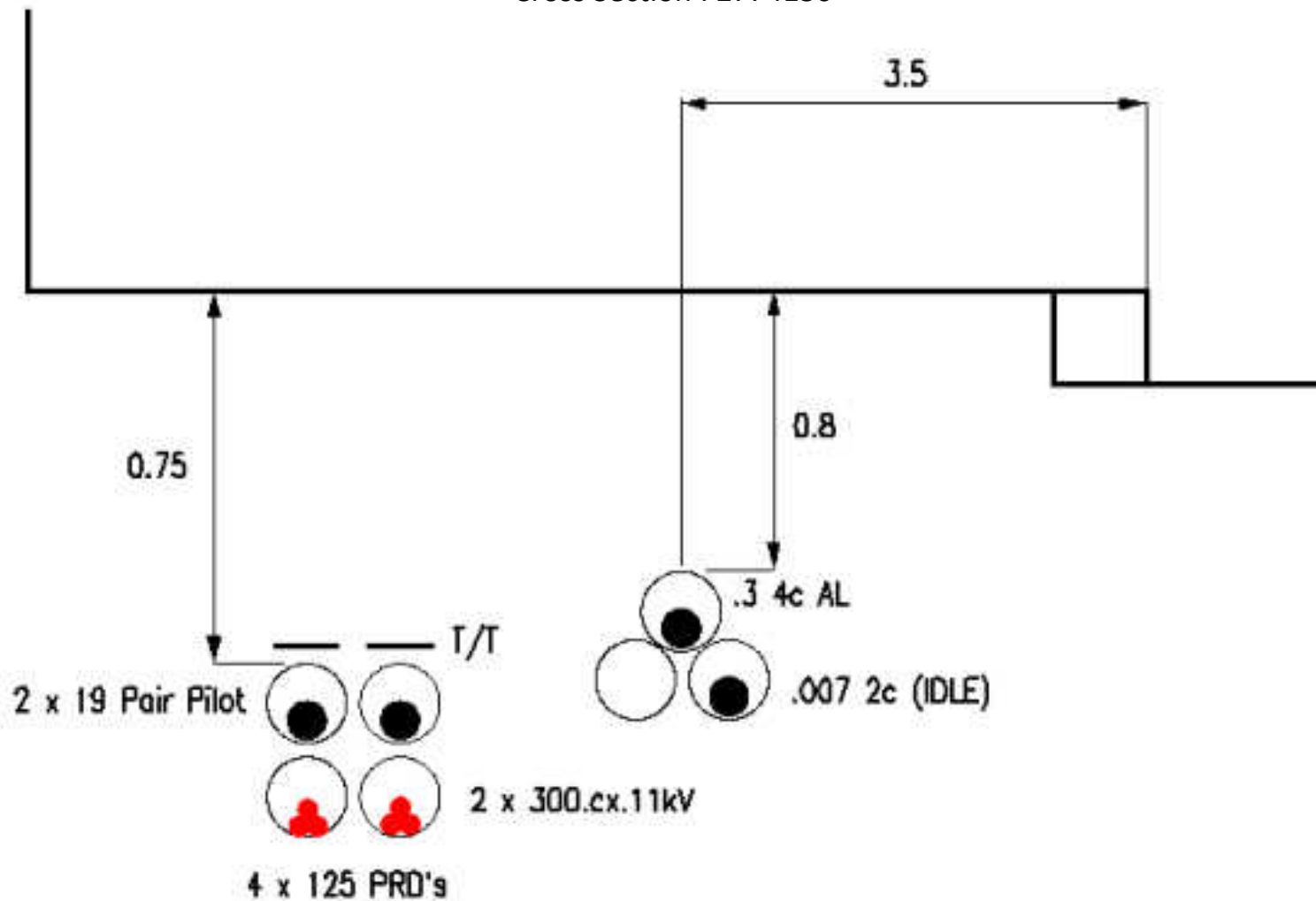
Cross Section
2774128

0.8.007 2c

<p>1. The position of the apparatus shown on this drawing is believed to be correct but the original landmarks may have been altered since the apparatus was installed.</p> <p>2. The exact position of the apparatus should be verified - use approved cable avoidance tools prior to excavation using suitable hand tools.</p> <p>3. If it is essential that trial holes are carefully made avoiding the use of mechanical tools or picks until the exact location of all the cables have been determined.</p> <p>4. It must be assumed that there is a service cable into each property, lamp column and street sign, etc.</p> <p>5. All cables must be treated as being live unless proved otherwise by UK Power Networks.</p> <p>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.</p> <p>7. Please be aware that electric cables/lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.</p>	<p>1. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk.</p> <p>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.</p> <p>3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise for any loss, damage, cost, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.</p> <p>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.</p> <p>5. You are responsible for the security of the information provided to you. It must not be given, sold or made available upon payment of a fee to a third party.</p>	<p>IF IN DOUBT - ASSE PHONE 0800 330 3006 EMERGENCY - if you damage a cable or the Phone 800 731 020 (24hr) URGENT</p>	
			<p>ALWAYS LOOK UP BEFORE YOU START WORK Refer to HSE Guidance note GS6</p>

Maps produced at 1:2500 scale are geo-referenced which show LV mains cables and overhead lines (in some cases all voltages). Prior to carrying out excavation you must refer to the 1:100 records to determine the location of all known underground plant and equipment.

Cross Section : 2774130

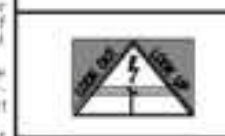


Cross Section 2774130

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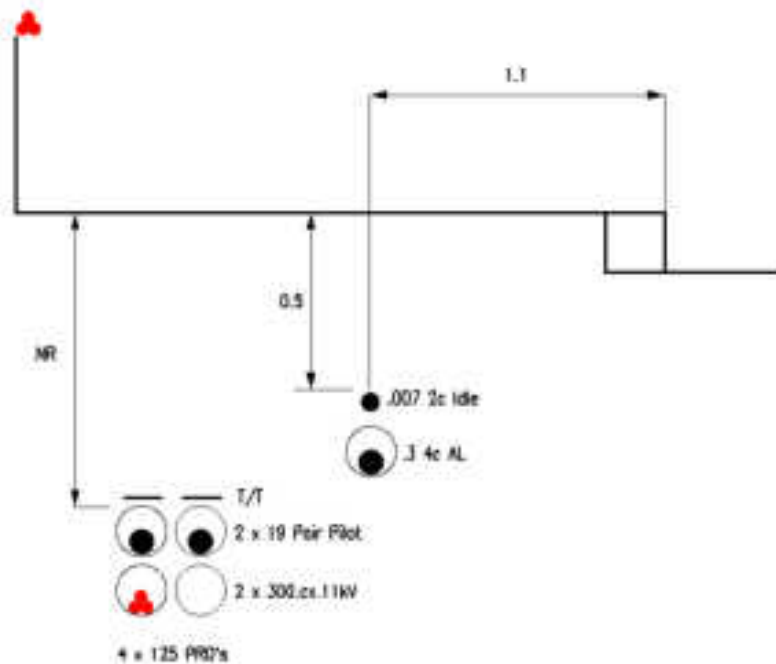
IF IN DOUBT - ASK PHONE
 0800 330 3000
**EMERGENCY - if you damage
 a cable or the
 Phone 800 730 600 (24hr)
 URGENT**



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

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Cross Section : 2774129



Cross Section
2774129

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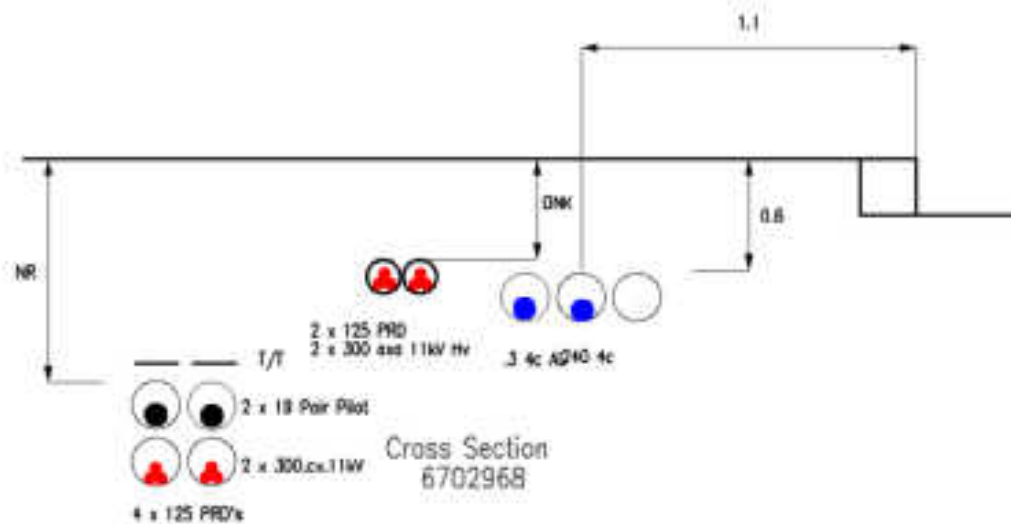
IF IN DOUBT - ASK PHONE
 0800 330 3006
**EMERGENCY - If you damage
 a cable or the
 Phone 800 731 6036 (24hr)
 URGENT!**



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 YOU START WORK**
 Refer to HSE Guidance note GS6

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Cross Section : 6702968



1. The position of the apparatus shown on this drawing is believed to be correct but the original landmarks may have been altered since the apparatus was installed.
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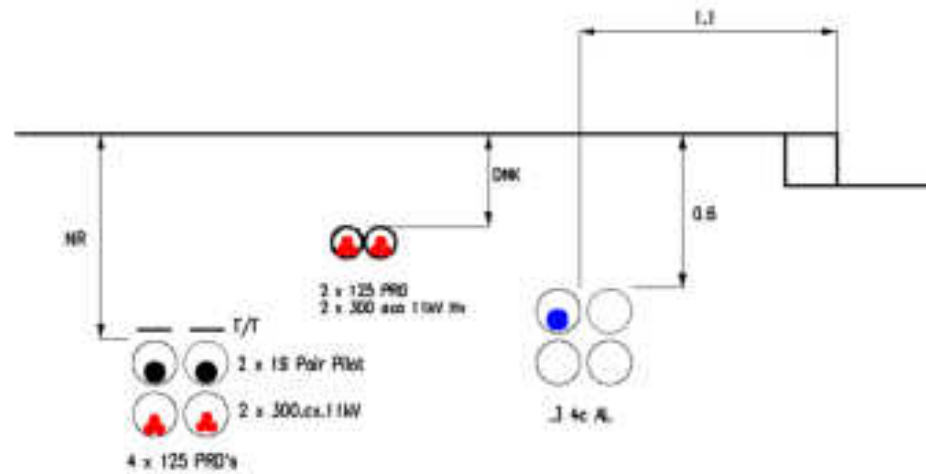
IF IN DOUBT - ASSESS PHONE
 0800 330 3006
**EMERGENCY - if you damage
 a cable or the
 Phone 800 731 0234 (24hr)
 URGENT!**



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

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Cross Section : 2774126



Cross Section
2774126

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

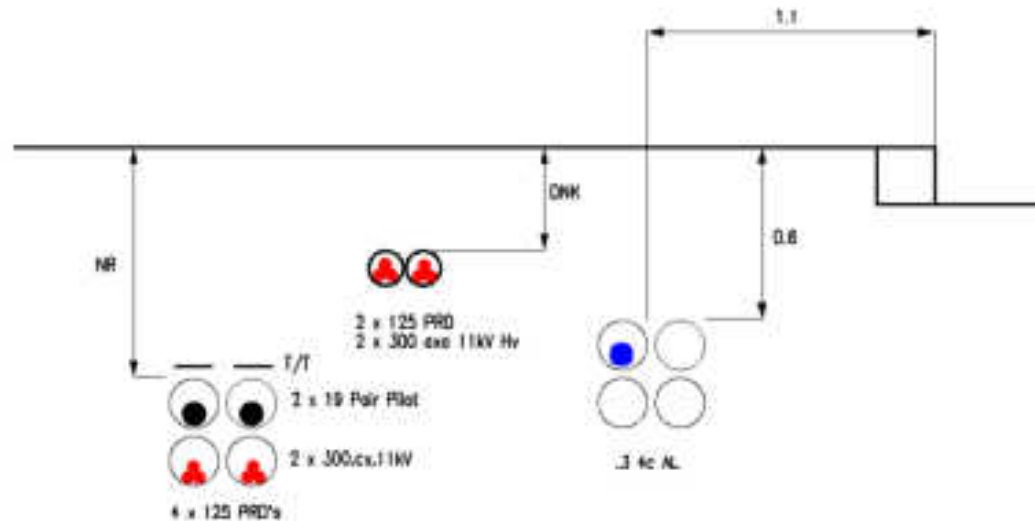
IF IN DOUBT - ASK PHONE
 0800 330 3000
**EMERGENCY - If you damage
 a cable or the
 Phone 800 731 6236 (24hr)
 URGENT!**



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

Maps produced at 1:2500 scale are geo-referenced which show 10 metre cables and overhead lines (in some cases at 50 metres). Prior to carrying out excavation you must refer to the 1:100 records to determine the location of all known underground plant and equipment.

Cross Section : 2774125



Cross Section
2774125

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

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

IF IN DOUBT - ASSESS PHONE
 0800 930 3996
**EMERGENCY - If you damage
 a cable or the
 Phone 800 733 6036 (24hr)
 URGENT!**



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

Maps produced at 1:2500 scale are geo-referenced which show 10 metre cables and overhead lines (in some cases all utilities). Prior to carrying out excavation you must refer to the 1:100 records to determine the location of all known underground plant and equipment.

UK Power Networks Feedback Tool

Please help UK Power Networks improve the accuracy of their network records and help make it safer for all those working around them in future.

All you need to do is:

1. Use your phone camera to scan the QR code:
2. Provide feedback on what you have found on site (good or bad)
3. Upload a photo if needed



Thank you for making the area a safer place to dig.

UK Power Networks, working with LSBUD

Our Ref: 27755342 Your Ref: 1922663 Hampden Close

Monday, 28 November 2022

Rebecca Dabbs
18 Frogmore Road
Hemel Hempstead
Hertfordshire
HP3 9RT

Dear Rebecca Dabbs

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

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

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

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

Plan Provision
0800 056 5866



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

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

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

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

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

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



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

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

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

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





Network Records NetMAP Symbols Booklet - London

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

Version 1.2

Released October 2010

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

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Index:-

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

(ii)

Guidance notes.

Important notice:

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

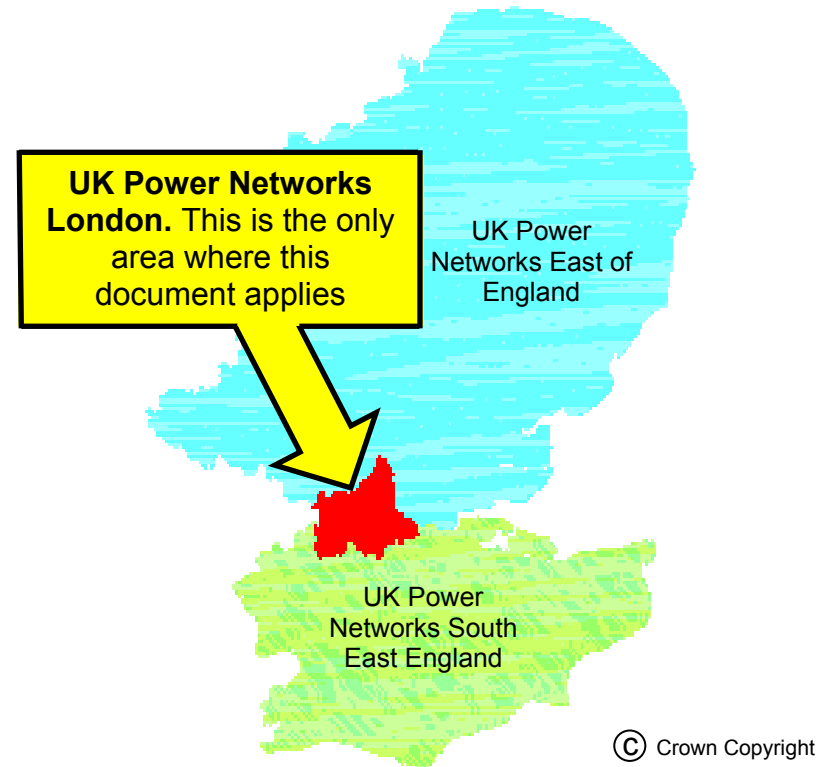
Tel: 08000 565866.

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



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

The area covered by this guide:










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

Scenery		
NetMAP system	Scanned image	Description
		100 metre Ordnance Survey grid line (or 1/25 based map only)
		Property fence line
		Building line
		Road line
		Road line on majority of ways & main maps
		Cable tunnel or subway
		Borough or City boundary and UK Power Networks boundary
		UK Power Networks or Electrical boundary

Scenery for UK Power Networks use only - boxed in red		
NetMAP system	Scanned image	Description
 Inset Network – Contact xxxx IDNO for further information	Not applicable	Area of inset network - not the asset of UK Power Networks (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Proposed Cross Rail route (only visible to of UK Power Networks and their immediate contractors)
	Not applicable	High pressure pipelines in the general vicinity (only visible to of UK Power Networks and their immediate contractors)
<p>Note: Pipelines are only viewable on NetMAP by UK Power Networks staff and their immediate contractors. Do not carry out any excavation without consent from the relevant agency - legally protected high pressure petroleum products pipeline route in the general vicinity - consult 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.</p>		
	Not applicable	Water - surface water (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Water - Source Protection Zone 1 (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Water - Source Protection Zone 2 (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Water - Source Protection Zone 3 (only visible to UK Power Networks and their immediate contractors)





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Scenery for UK Power Networks use only - boxed in red






NetMAP system	Scanned image	Description
	Not applicable	Historical - Scheduled Monuments (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Historical - Parks and Gardens (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Historical - Areas of Archaeological Potential (AAP) (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Nature - Ramsar Wetlands of International Importance (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Nature - Special Area of Conservation (SAC) (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Nature - Special Protected Area (SPA) (only visible UK Power Networks and their immediate contractors)
	Not applicable	Nature - Site of Special and Scientific Interest (SSSI) (only visible to UK Power Networks and their immediate contractors)

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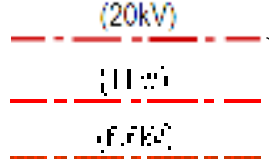
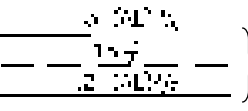













Scenery for UK Power Networks use only - boxed in red

NetMAP system	Scanned image	Description
	Not applicable	Nature - Local Nature Reserve (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Nature - National Nature Reserve (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Nature - Area of Outstanding Natural Beauty (AONB) (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Nature - National Park (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Fluid filled cables - very high sensitivity (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Fluid filled cables - high sensitivity (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Fluid filled cables - medium sensitivity (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Fluid filled cables - low sensitivity (only visible to UK Power Networks and their immediate contractors)

Primary distribution cables

NetMAP system	Scanned image	Description
		UK Power Networks route (1,000, 22,000 to 132,000 volts)
	Not applicable	Cable stop
		Part of UK Power Networks cable route after the last cable stop

Secondary distribution cables

NetMAP system	Scanned image	Description
		HV cable (up to 20kV)
		3 phase LV cable (230V or 400/230V)
		1 or 2 phase LV cable (230V or 400/230V)
		Not an equipment cable, often not shown, scan it along with other cables
	Not applicable	fibre-optic cable
		Trench cable
		5 or 10 cable in road
		Just possible, not contained in the data

Cable terminology		
NetMAP system	Scanned image	Description
P	P	Paper Lead
FLS	PLS	Paper Lead Service
PLS on 11/20	PLA	Paper Lead Armoured
FLS7S	P7S	Paper Lead Steel case Service
FLS9	PLST	Paper Lead Sulfide Tape
FLS7S	PLWS	Paper Lead Steel Wire Service
FLS7	FLW7	Paper Lead Bright Wire
FLS	LC & H	Lead Covered & Heavily
FLS on 11/20	LC & A	Lead Covered & Armoured
FLS7	LC & H6	Lead Covered & Bright Armoured
FLS7	DETA	Double steel case armoured
FLS	SA	Steel case Armoured
FLS7	SWA	Steel Wire Armoured
A	A	Aluminium
Cu	Cu	Copper
W	W	Waxstone
CS	CS	Concrete
PC	PVC	Polyvinyl Chloride
EP	LFK	Low Density Polyethylene Rubber
SL-L	SL-L	Steel lined Polyethylene
SOL	SOL AL	Solid Aluminium
ex	TRN EX	Tripax (aluminium)
ex	TRN EX	Tripax (copper)

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

Cable ducts		
NetMAP system	Scanned image	Description
		single empty duct
		Cluster of empty ducts (ben or man)
		Cable in single duct
		Group of cables shown in a cluster of duct, duct, and/or more empty (shown in section)
		Duct-in-duct
		<p>For London area 'large' areas. This symbol indicates one or more ducts.</p> <p>The City of London area 'large' symbols are not in general use as most duct runs are between sites or boxes.</p>

Other NetMAP symbols		
NetMAP system	Scanned image	Description
		Cable size (and wear line)
		Cable access end
		Cable pressure (in poly end or strand end)
		Pressure/point end & wear line (and/or)
		Each red (vertical)
		Each red (horizontal)
		Duct plate
		Duct plate at end
		Ducts at transfer point or combined strain & pressure end (S&P)
		Straight joint
		Tee circle
		Ductal (or steel) joints (S&P) straight & angled (S&P) combined (S&P)
		Ducts at joint (or square joint)
		Closure

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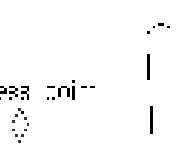
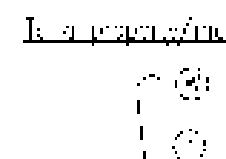
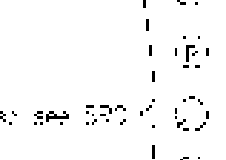

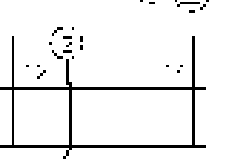
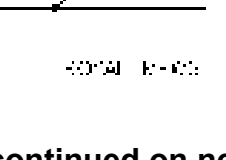

Other NetMAP symbols

NetMAP system	Scanned image	Description
		Four way underground disconnecting boxes (IC)
		Link boxes (IC)
		Network boxes (NET or (H)NET)
		4 way 3 entry
		Flow boxes
		Flow 3 entry
		Split bus bar
		line box with identification number
		Flow underground disconnecting boxes
		2 way underground disconnecting boxes
		3 way underground disconnecting boxes
		Feeder pillars
		Split bus bar distribution pillar
		Group bus-bar distribution pillar
		Wind pillar
		Flow boxes

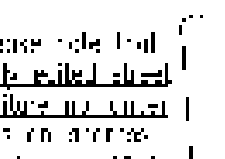
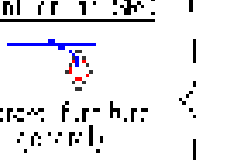
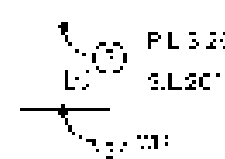


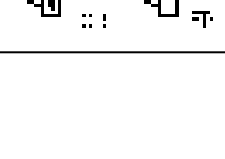


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Other NetMAP symbols









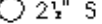










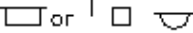


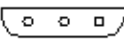


NetMAP system	Scanned image	Description
		Transformer shelters (T/C) & line shelter compound
		Underground transformer shelter
		Missing data (no new this shelter)
		Underground tank
		Indicates service between separate buildings is copied
		Painting schedule numbers or painting diagram
		Contaminated land reference
		Instrument traced cable or ITC - cable traced electronically using Cable Avoidance Tool (CAT) or similar

Services		
NetMAP system	Scanned image	Description
<p>SRC - Service Record Card</p> <p><u>Is a paper/windows single file, see SRC!</u></p> <p>Address point  Supply point  Also see SRC one joint/cable attributes Service in external cabinets  Also see SRC and all cable attributes</p>		
		<p>Single phase service</p> <p>Connected to core & neutral</p>
		<p>Connected to red core or brown</p>
		<p>Three phase service</p> <p>Connected to inner & outer cores of cable core cable</p>
		<p>Connected to middle & outer cores of cable core cable</p>
		<p>Connected to all three cores of cable core cable</p>
		<p>Existence of a service with its core connection shown in window</p>

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








Services		
NetMAP system	Scanned image	Description
<p>To check 'unit type' - selected - single (also see SRC)</p>		
<p>Phase code that <u>is not related to cable</u> <u>luminaire no. used</u> <u>has an address point or is SRC</u></p>  <p>(Street furniture category)</p>  <p>(See luminaire function sign or address)</p>	 <p>PL 3 201 S.L.201</p>  <p>PL 3 201 S.L.201</p>  <p>PL 3 201 S.L.201</p>  <p>PL 3 201 S.L.201</p>  <p>PL 3 201 S.L.201</p>  <p>PL 3 201 S.L.201</p>	<p>Anti lighting</p> <p>Street lighting</p> <p>Well bracket</p> <p>Anti light control</p> <p>Flashing beacon</p> <p>Ice to sign</p> <p>Yellow/red minded quad post</p> <p>Electronic clock, Ice to control, laser pilot</p>

Symbols used in cross sections

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

section continued on next page

Symbols used in cross sections

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

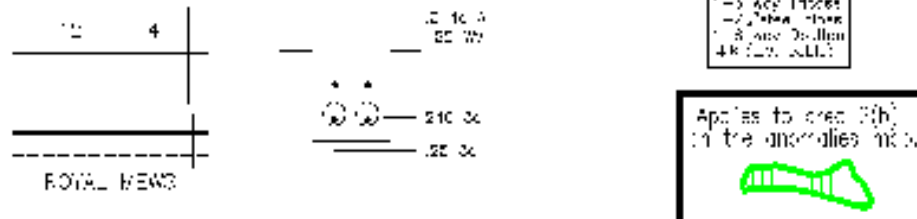
Typical plan and cross section representations

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.

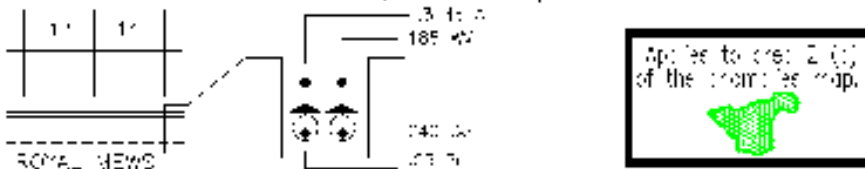
All the cables may be used



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 above. Note that the top outer cables that are in cable runs do not show in plan. There are cross sections and supplementary sections, as each line represents one or more cables.



HV and LV map representation – dual layer raster

Ex-North Eastern area only

High and low voltage cables are shown on separate raster layers. These layers shall be drawn in conjunction with each other. Sections are shown on a combined supplementary section sheet in numerical sequence.

Section layer 1 HV (red) Section layer 2 LV (blue) Section order set for them.



Typical plan and cross section representations

Multi-single line representation general (style 2)

Ex-North Eastern area only

In the plan, even 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 deliberately repeating, 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 marked under the relevant voltage.



Important note regarding sections:

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

Regional NetMAP Anomalies - general overview:

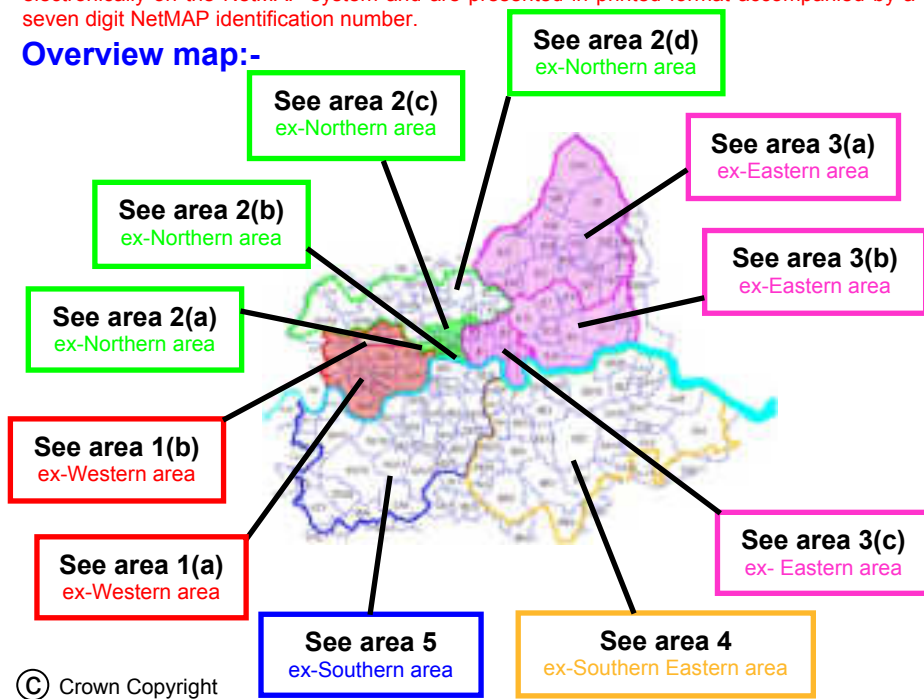
The following pages explain the various major map style anomalies found within the London area. These styles are a legacy from the five individual London Electricity areas which were again formed from seventeen separately organised LEB districts. Areas with significant anomalies are shown in the following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

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

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

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

Overview map:-



See following pages for further details.

Region 1 ex-Western area

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

Region 1(a) (hatched)

Mains and ways representation:

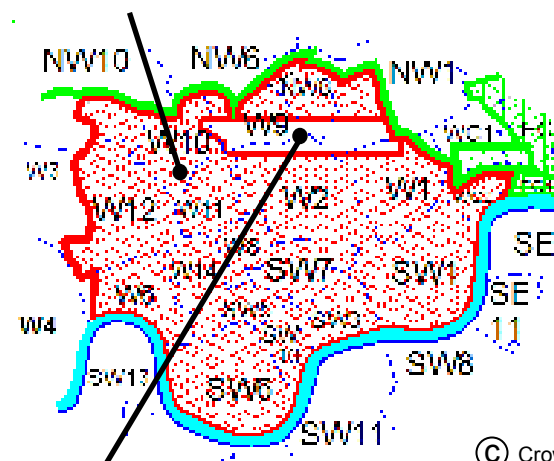
This system consists of two maps layers for the same area.

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

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

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

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



Region 1(b) (un-hatched)

Composite single layer (style 1) maps:

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

Region 2 ex-Northern area

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

Region 2(a) (hatched)

Covers part of WC1 and WC2 (Holborn).

Mains and ways representation:

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

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

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

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

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



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Region 2(b) (hatched)

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

Single line representation maps:

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

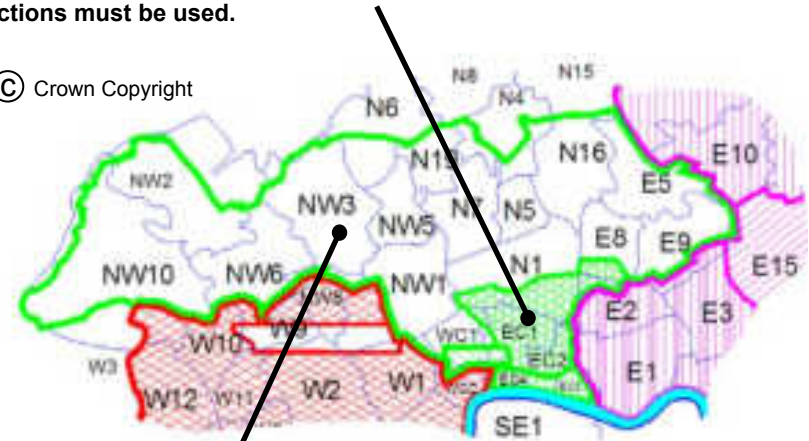
Region 2(c) (hatched)

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

Multi-single line representation (style 1) maps:

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

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Region 2(d) (un-hatched)

Covers all other postal areas in this region

Composite single layer (style 1) maps:

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