



# 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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# **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

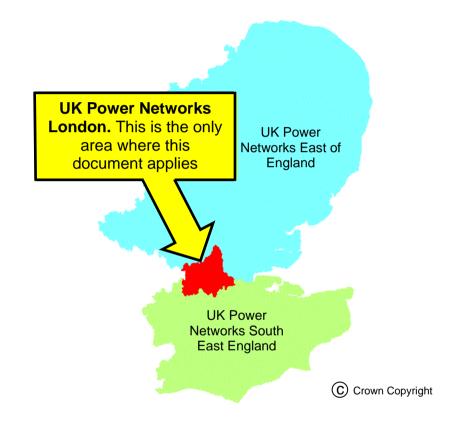
Tel: 08000 565866.

- 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	
TUNNEL NOT APPLICABLE		100 metre Ordnance Survey grid line (on 0/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  UK Power Networks 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)	
illomator.	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			

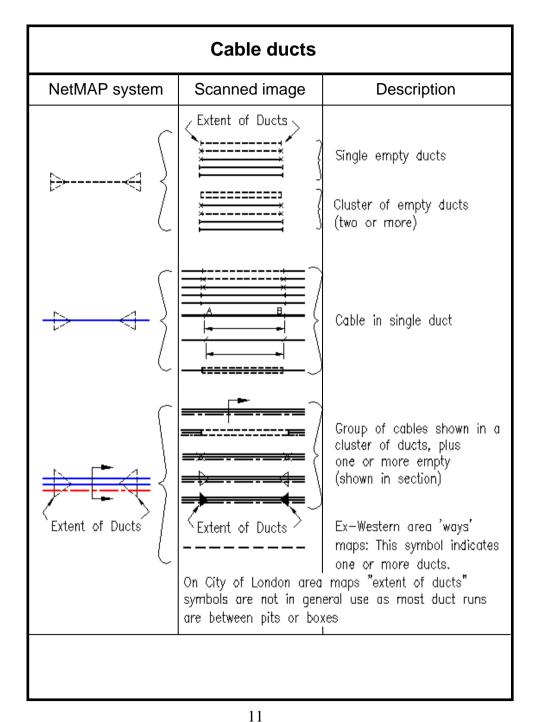
Scenery for UK Power Networks use only - boxed in red			
NetMAP system	Scanned image	Description	
	Not applicable	Nature - Local Nature Reserve (only visible to UK Power Networks and their immediate contractors)	
	Not applicable	Nature - National Nature Reserve (only visible to UK Power Networks and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

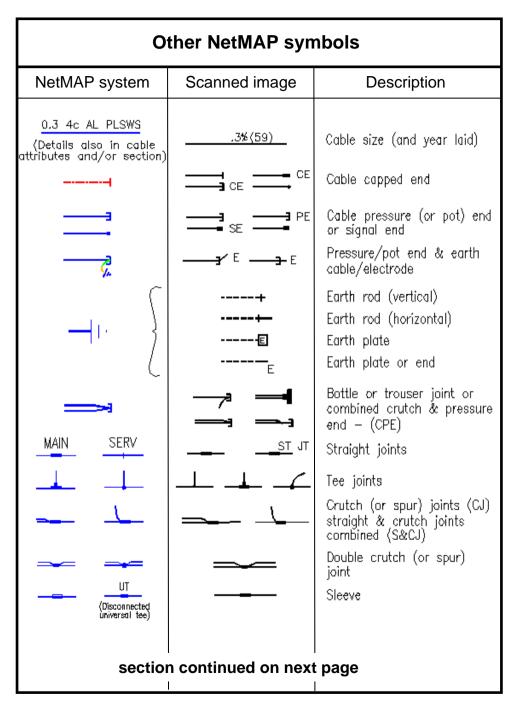
Primary distribution cables			
NetMAP system			
EHY CABLE	——EHV Coble Route 259 Not applicable ——s——s——s——s	UK Power Networks route (11,000 , 22,000 to 132,000 volts) Oil/gas cable stop Part of UK Power Networks cable route where cover is less than normal	

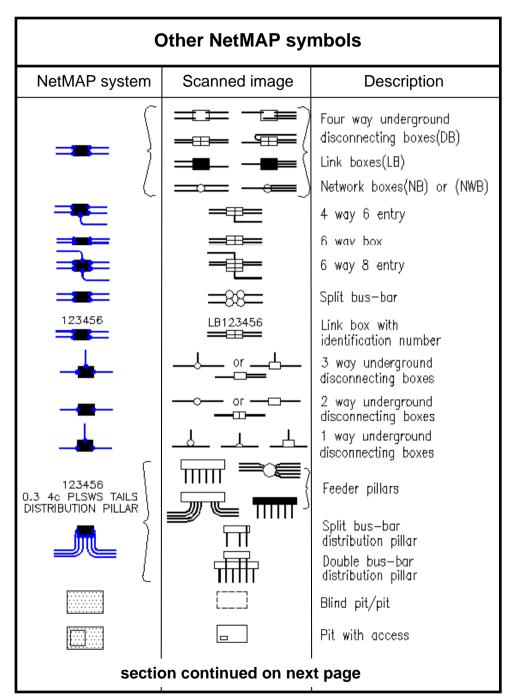
Secondary distribution cables			
NetMAP system	Scanned image	Description	
(20kV) (11kV) (6.6kV)	.3 (AL) % .15 % .3 (AL) %  .3 (AL) %  .185 %  .0225 %  Not applicable	HV cable (up to 20kV)  3 phase LV cable (230V or 400/230V) 1 or 2 phase LV cable (230V or 400/230V) Pilot or Telephone cable, often not shown in plan if running with other cables Fibre—optic cable Earth cable HV or LV cable in duct Duct route(s) not containing	
	}	Duct route(s) not containing live cables	

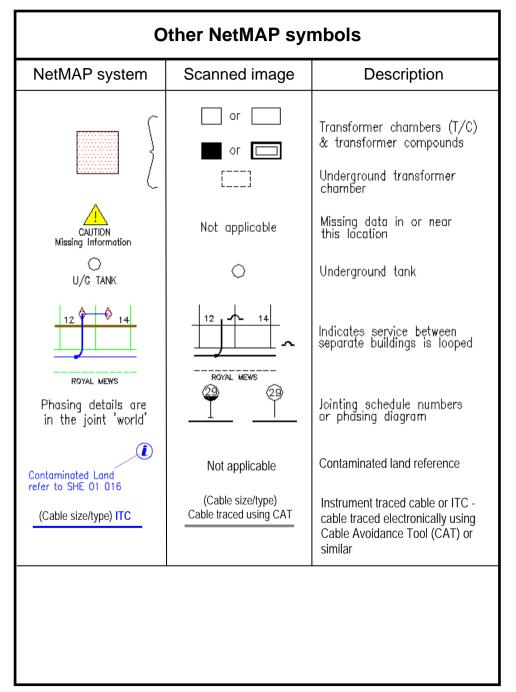
Cable terminology			
NetMAP system	Scanned image	Description	
PL PLS PLST or PLSW PLSTS PLSWS PLSW PLS PLST or PLSW PLST PLST PLSW AI Cu WV CS PVC EPR XLPE SOL ax cx	PL PLS PLA PLTS PLDT PLWS PLBW LC & H LC & BA LC & BA  DSTA STA SWA AI Cu WV CS PVC EPR XLPE SOLIDAL TRIPLEX TRIPLEX	Paper Lead Paper Lead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

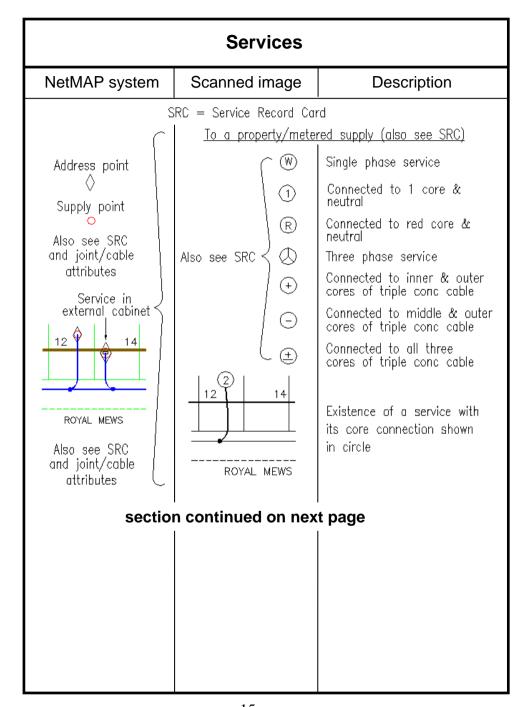
Cable size abbreviations			
NetMAP system	Scanned image	Description	
1c c/c t/c 4c 3c CNE	% % % or T/cc % % (см)	Single core. Concentric cores Triple concentric cores Four cores Three cores and concentric neutral — not of the Waveconal type	
2c s/c 3c DC P Pr	% (or Tw) %c %c DC P	Two cores (or twin)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

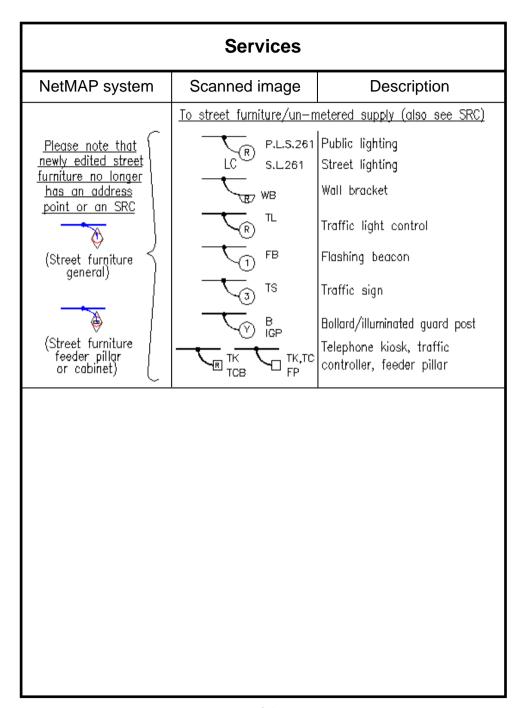












Symbols used in cross sections				
NetMAP sys	stem	Scanned image	Description	
•		• •	Cable laid direct	
•		● ●	Cable laid in duct	
$\otimes$		Ø 8	Blocked duct (sometimes used for unidentified cables)	
0		0 0	Single earthenware duct	
○ 2½" S		0	Single steel pipe	
			Square cable duct	
00		00	Group of circular ducts	
		88	Group of circular ducts (Sykes)	
			Group of square ducts (Doulton)	
	(	□°¹□ ↔	Cable trough	
$\nabla$	}	(000)	Bitumen casing (Crompton)	
		(· · · · )	Bitumen filled iron trough (Trunks)	
8		8	Bitumen casing (Tri-case)	
	section continued on next 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.V.P or E.V T/T 3/62 or NOV 79 ABCD etc Please note:	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)	

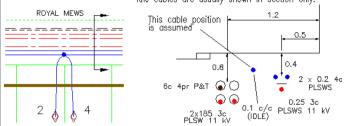
# Typical plan and cross section representations

# Multi-line composite NetMAP/vector representation

All areas – drawn/redrawn using NetMAP GIS

Cables shown in cross section viewed in direction of arrow.

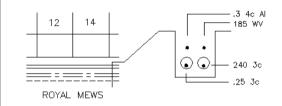
Idle cables are usually shown in section only.



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.

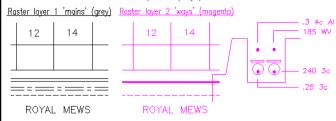
Can also be found in some shaded areas — in particular the ex—North Eastern shaded areas

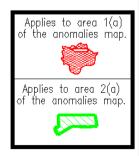
# Main and ways representation – dual layer raster

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.



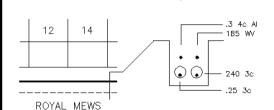


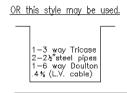
# Typical plan and cross section representations

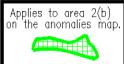
# Single line representation - raster or vector data The City of London only

All cables are shown as a single line in plan.

Sections may be written and not drawn.



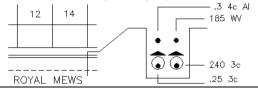


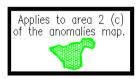


# Multi-single line representation general (style 1)

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.





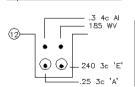
# HV and LV map representation – dual layer raster Ex-North Eastern area only

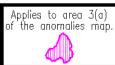
HV and LV cables are shown on separate raster layers. These layers MUST be read in conjunction with each other. Sections are shown on a combined supplementary section sheet in numerical sequence.

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







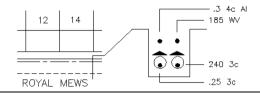


# Typical plan and cross section representations

# 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.

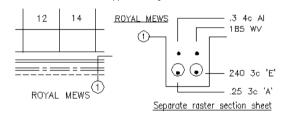




# Multi-line representation - composite raster (style 2)

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.

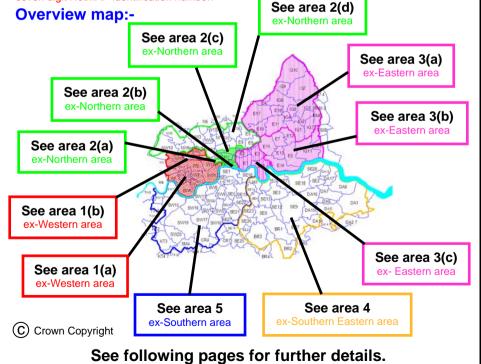
# Regional NetMAP Anomalies - general overview:

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 ways representation:

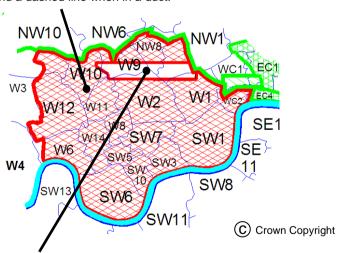
This system consists of two maps layers for the same area.

- 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 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:

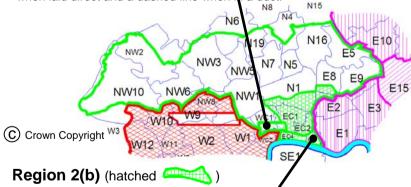
This system consists of two maps layers for the same area.

- 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.



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.

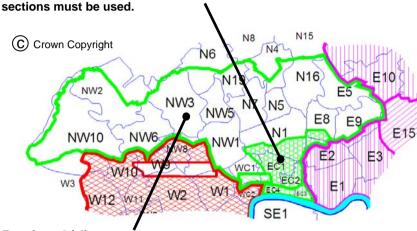
# Region 2(c) (hatched )



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

C Crown Copyright

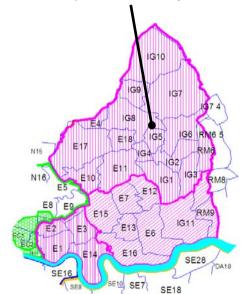
### **Separate HV and LV representation maps:**

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.

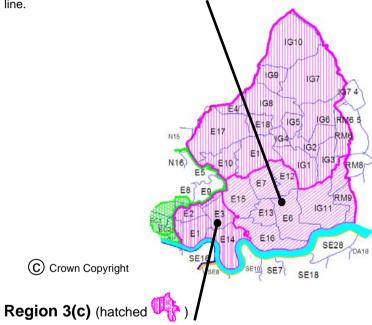


# Region 3(b) (hatched



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

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



# 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

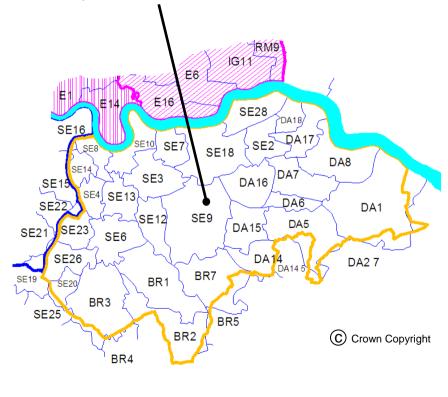
This region includes Lewisham, Greenwich, Bromley, Bexley and Dartford.

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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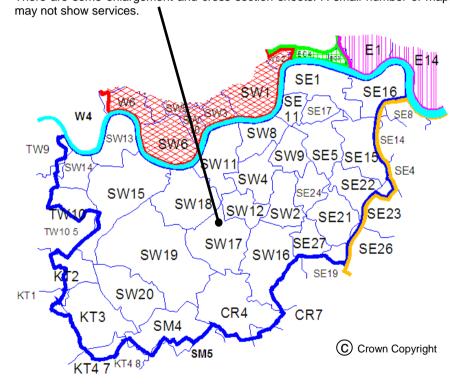
# Region 5 ex-Southern area

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.

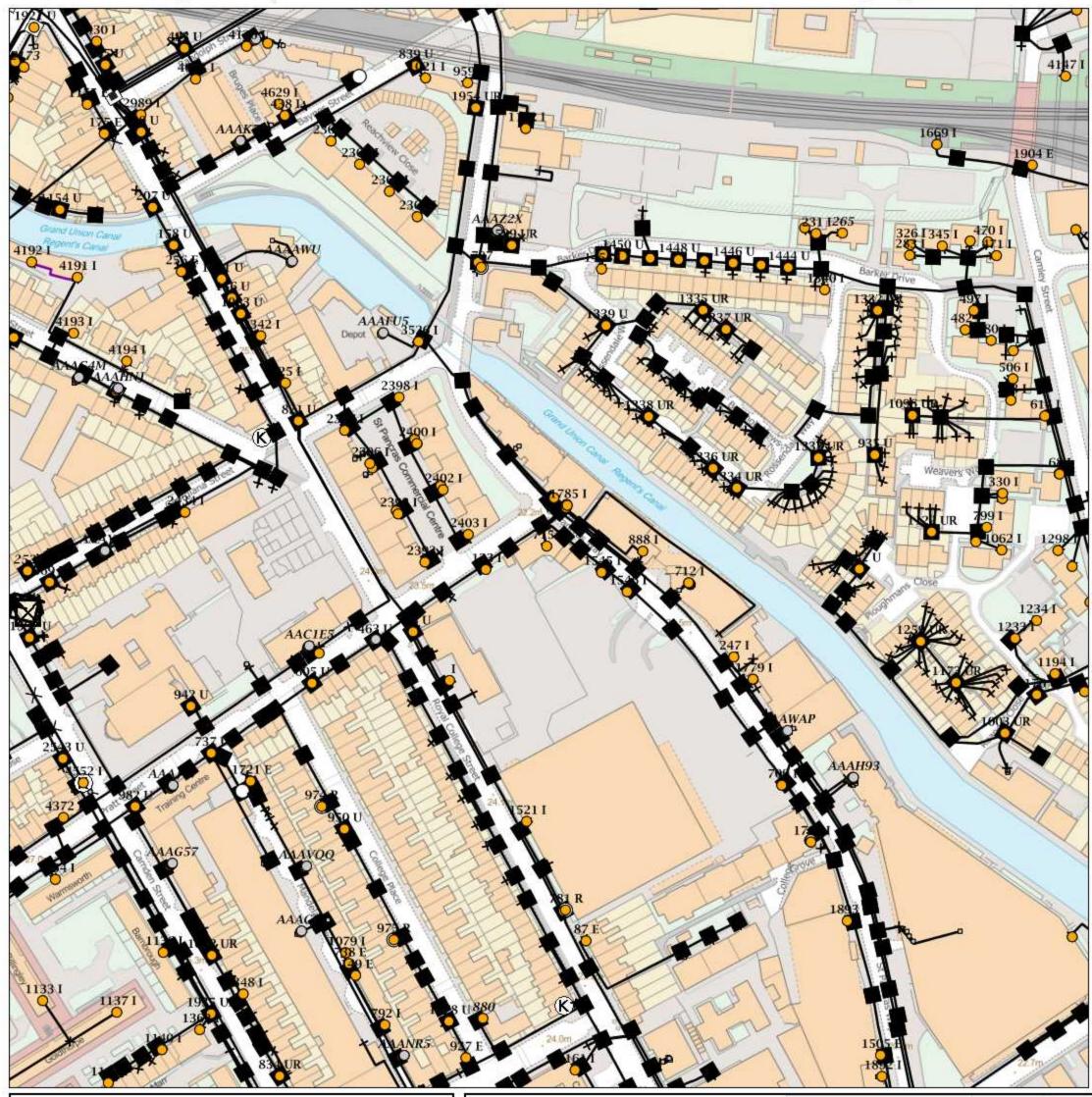
# Region 5 (un-hatched)

# 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.



# Maps by email Plant Information Reply



# IMPORTANT WARNING

Information regarding the location of BT apparatus is given for your assistance and is intended for general guidance only.

No guarantee is given of its accuracy.

It should not be relied upon in the event of excavations or other works being made near to BT apparatus which may exist at various depths and may deviate from the marked route.



# openreach

# **CLICK BEFORE YOU DIG**

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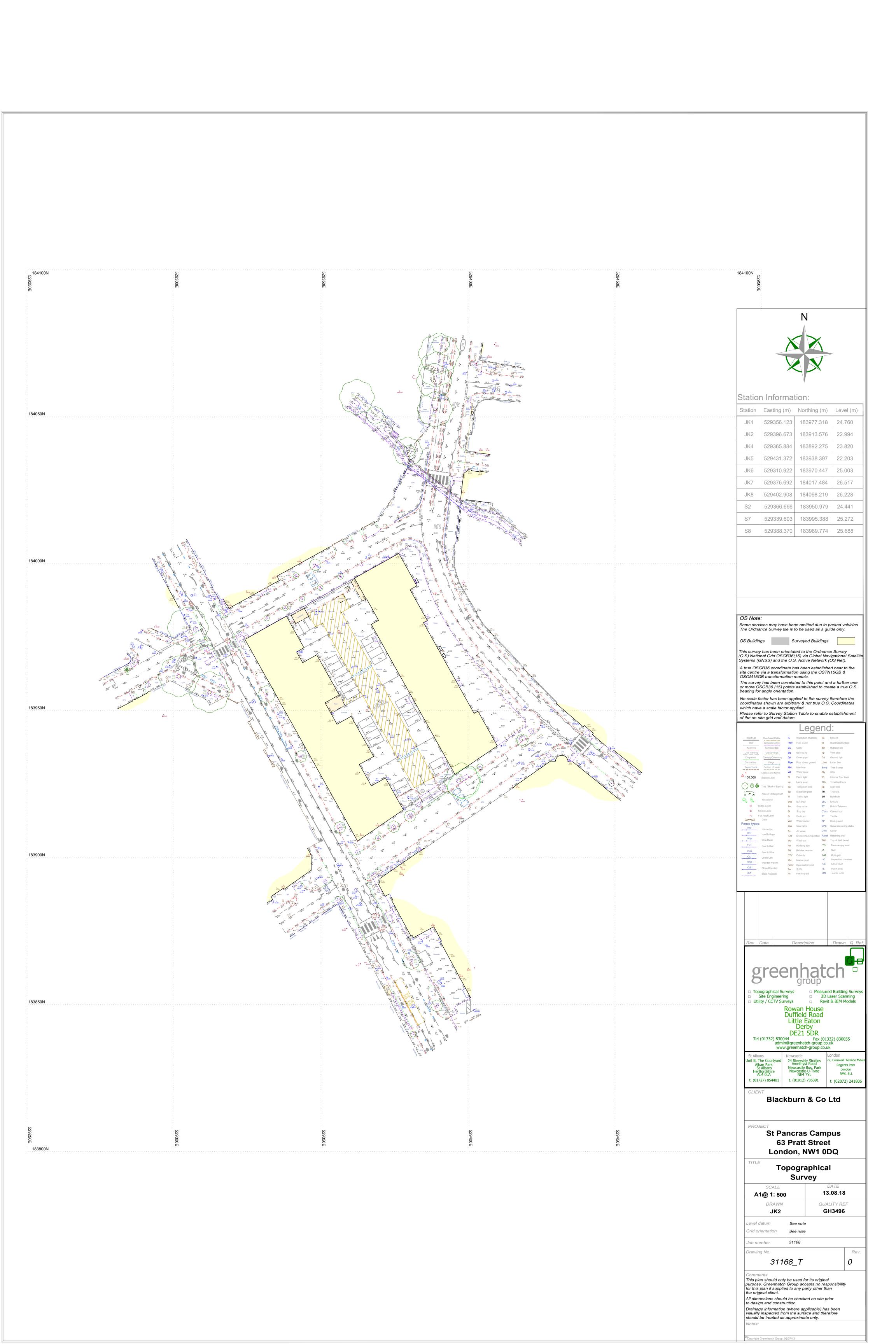
EY TO BT SYMBOLS	Pole	0
DP (	Planned Pole	0
Planned DP	Joint Box	11
PCP	Change Of State	+
Planned PCP	Split Coupling	×
Built	Duct Tee	_
Planned	Planned Box	
Inferred	Manhole	
Duct	Planned Manhole	
Building	Cabinet	Û
Kiosk	Planned Cabinet	17
Hatchings	Other proposed plant is shown usi  BT Symbols not listed above may  Existing BT Plant may not be	be disregarde

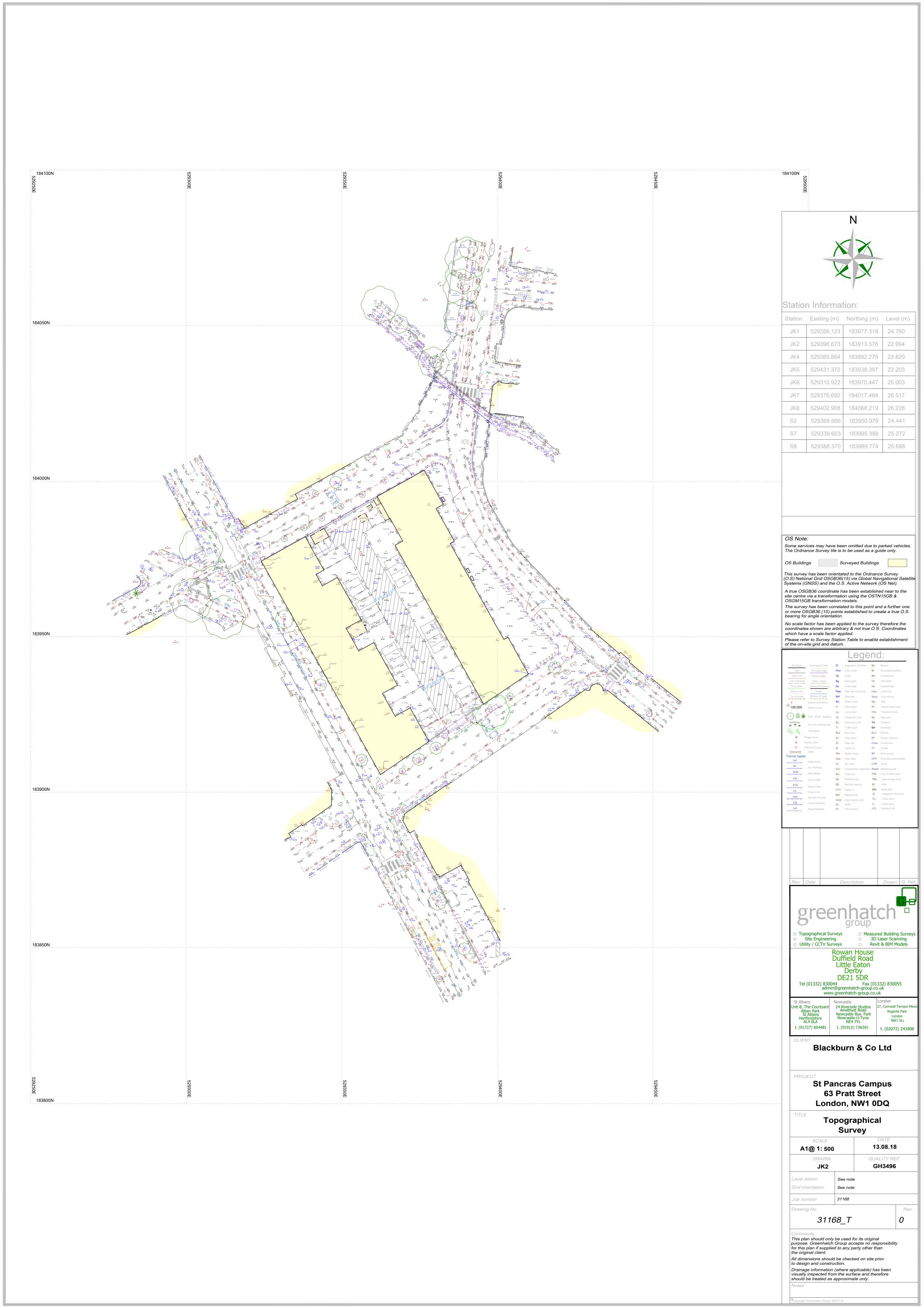
Information valid at time of preparation

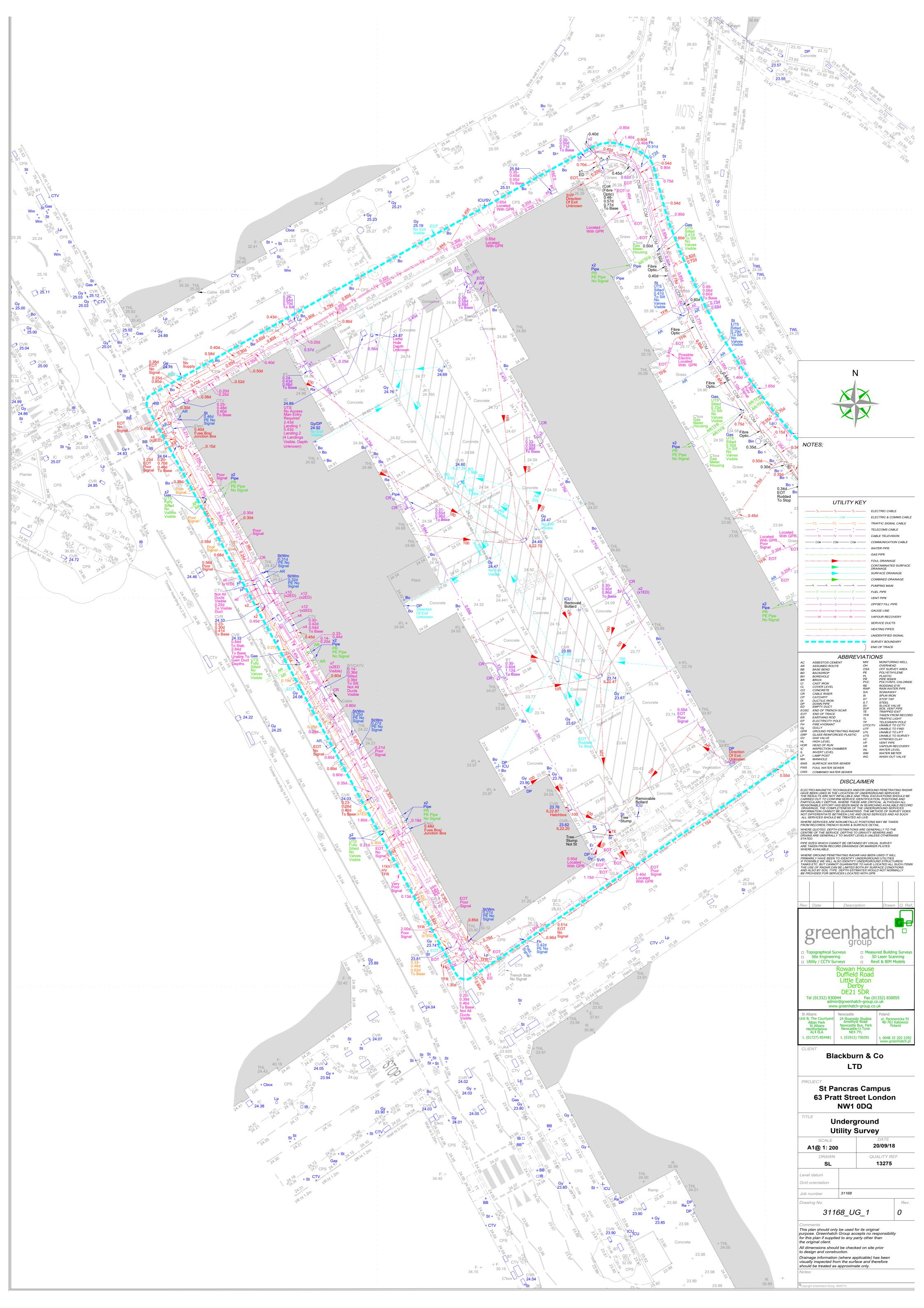
BT Ref : ZYC03445G

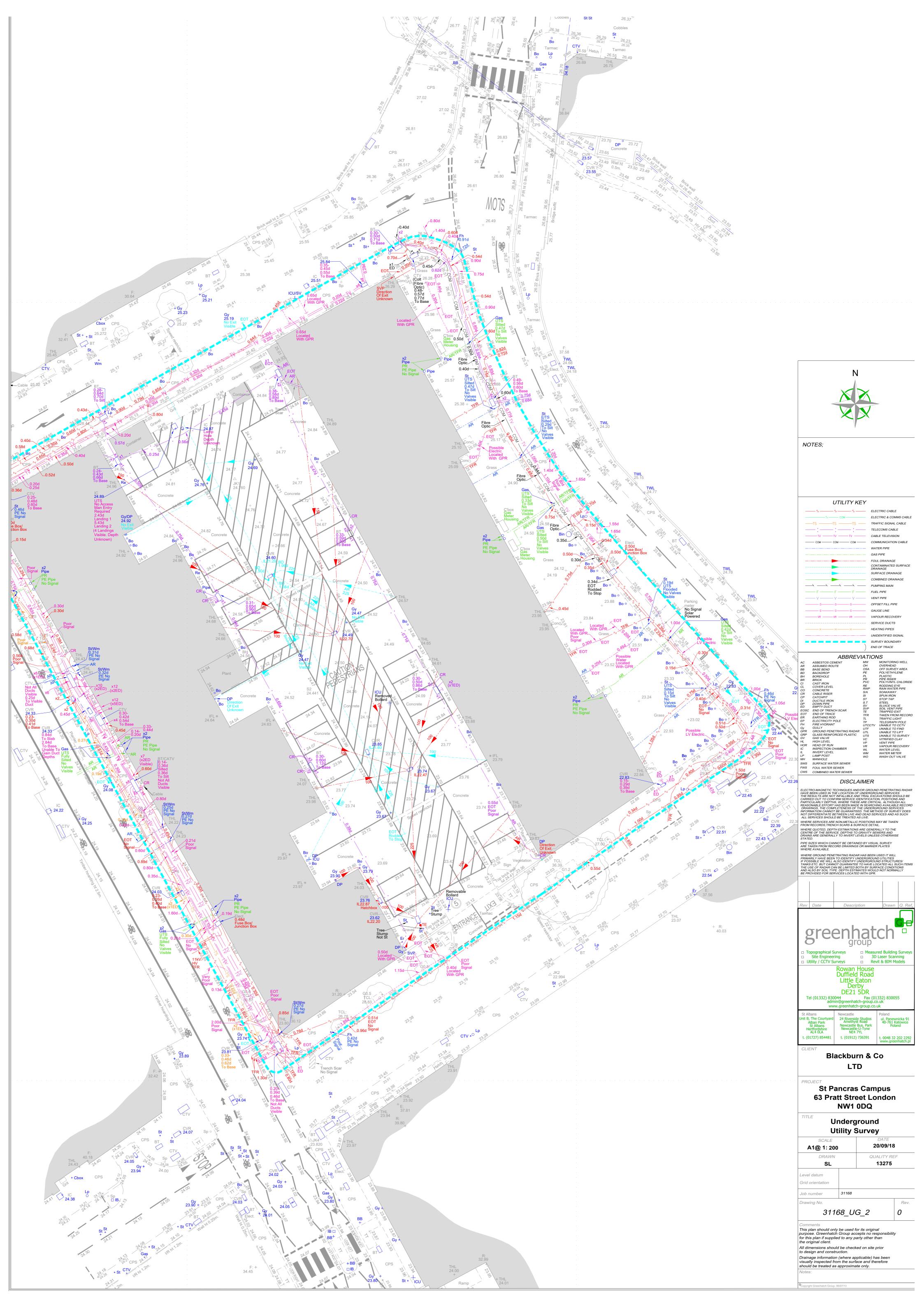
Map Reference: (centre) TQ2943383925 Easting/Northing: (centre) 529433,183925

Issued: 14/09/2018 15:44:46











Greenhatch Group Rowan HouseDuffield Road Little Eaton DERBY DE21 5DR

Search address supplied Flat 1

124

Pratt Street London NW1 0DQ

Your reference St Pancras

Our reference ALS/ALS Standard/2018\_3873664

Search date 14 September 2018

# Keeping you up-to-date

# **Notification of Price Changes**

From 1 September 2018 Thames Water Property Searches will be increasing the price of its Asset Location Search in line with RPI at 3.23%.

For further details on the price increase please visit our website: www.thameswater-propertysearches.co.uk Please note that any orders received with a higher payment prior to the 1 September 2018 will be non-refundable.



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: Flat 1, 124, Pratt Street, London, NW1 0DQ

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

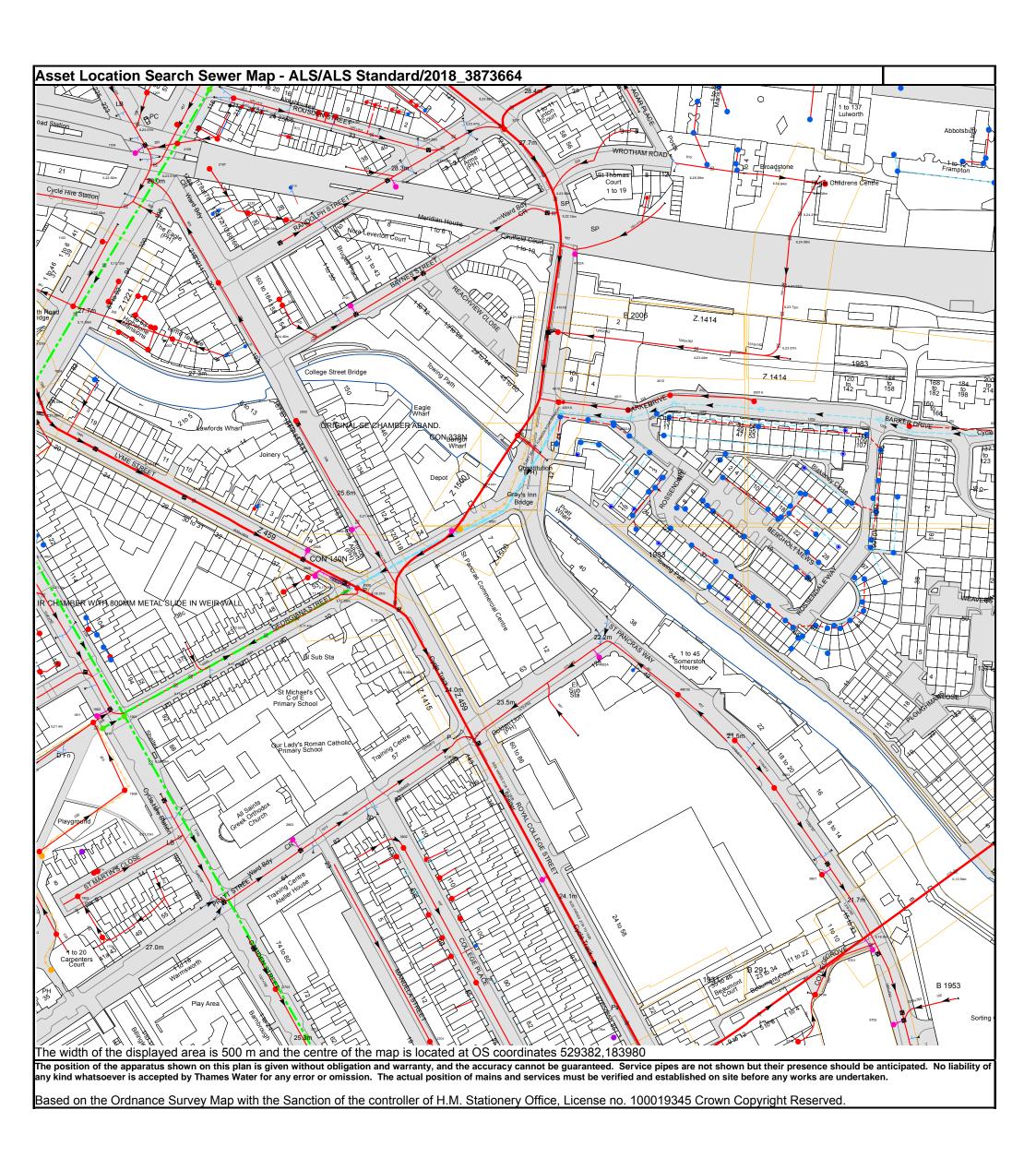
### Clean Water queries

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



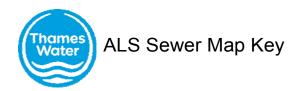
<u>Thames Water Utilities Ltd</u>, Property Searches, PO Box 3189, Slough SL1 4W, DX 151280 Slough 13 **T** 0845 070 9148 **E** <u>searches@thameswater.co.uk</u> **I** <u>www.thameswater-propertysearches.co.uk</u>

Manhole Reference	Manhole Cover Level	Manhole Invert Level
52AE	n/a	n/a
42DG 42DE	n/a n/a	n/a n/a
42DF	n/a	n/a
2234	28.42	12.52
2202	n/a	25.51
221C	n/a	n/a
221B 221A	n/a	n/a n/a
2239	n/a n/a	n/a
2240	n/a	n/a
2241	n/a	n/a
321E	n/a	n/a
321F	n/a	n/a
321H 321I	n/a n/a	n/a n/a
321G	n/a	n/a
321C	n/a	n/a
321B	n/a	n/a
321D	n/a	n/a
1201 5003B	n/a 28.8	23.55 22.52
50BJ	n/a	n/a
59EF	n/a	n/a
59EH	n/a	n/a
51AC	n/a	n/a
51AI	n/a	n/a
50AG 5004	n/a 28.8	n/a 24.25
5005	28.8	22.6
61AD	n/a	n/a
61AC	n/a	n/a
61AB	n/a	n/a
62AE 61AE	n/a n/a	n/a n/a
59FJ	n/a	n/a
59DH	n/a	n/a
50EF	n/a	n/a
59DI	n/a	n/a
50EA 59FH	n/a n/a	n/a n/a
59FI	n/a	n/a
59AF	n/a	n/a
59FD	n/a	n/a
59FG	n/a	n/a
59AE	n/a	n/a
59DG 50DJ	n/a n/a	n/a n/a
59AJ	n/a	n/a
59AD	n/a	n/a
50DH	n/a	n/a
59BA	n/a	n/a
50DF 59BC	n/a n/a	n/a n/a
59BB	n/a	n/a
59AC	n/a	n/a
59AB	n/a	n/a
59EG	n/a	n/a
59FC 50AI	n/a n/a	n/a n/a
50BI	n/a n/a	n/a
50AH	n/a	n/a
40EB	n/a	n/a
491A 49DI	n/a n/a	n/a n/a
49DJ	n/a n/a	n/a n/a
40EC	n/a	n/a
49DF	n/a	n/a
40FA	n/a	n/a
40FC	n/a	n/a
49CC 40DA	n/a n/a	n/a n/a
40DB	n/a	n/a
49DG	n/a	n/a
40DC	n/a	n/a
49CD 40BI	n/a n/a	n/a
49AJ	n/a n/a	n/a n/a
49CB	n/a	n/a
59EC	n/a	n/a
50ED	n/a	n/a
	n/a n/a	n/a
59AH 50EC		n/a
50EC		n/a
	n/a n/a n/a	n/a n/a
50EC 50EH 59DJ 50EB	n/a n/a n/a	n/a n/a
50EC 50EH 59DJ 50EB 50EG	n/a n/a n/a n/a	n/a n/a n/a
50EC 50EH 59DJ 50EB 50EG 59EB	n/a n/a n/a n/a n/a	n/a n/a n/a n/a
50EC 50EH 59DJ 50EB 50EG	n/a n/a n/a n/a	n/a n/a n/a

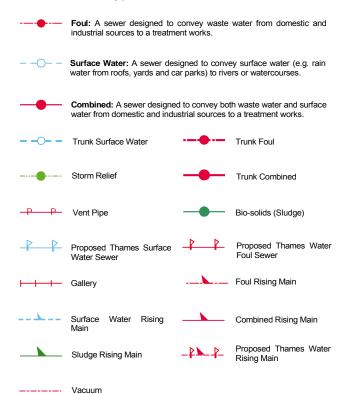
Monholo Potovonos	Manhala Cayor Layal	Manhala Invert Laval
Manhole Reference 5702	Manhole Cover Level	Manhole Invert Level
5704	19.71	16.96
5701 5801	21.24 n/a	14.4 n/a
5803	21.36	16.99
4802	21.26 21.24	17.29
4901B 40EJ	21.24 n/a	19.17 n/a
40FD	n/a	n/a
40DF 40BJ	n/a n/a	n/a n/a
40FE	n/a	n/a
40GD 40BG	n/a n/a	n/a n/a
50CA	n/a	n/a
50CB 40GC	n/a n/a	n/a n/a
40GC 40FJ	n/a	n/a
4002A	27.8	21.85
40AE 40BF	n/a n/a	n/a n/a
4011	27.8	23.74
5002A 4003B	28.5 28.3	22.2 21.97
5001A	28.5	24.75
4012 411A	28.3 n/a	24.2 n/a
5101	n/a 28.91	n/a 24.96
41CB	n/a	n/a
41BE 41BJ	n/a n/a	n/a n/a
41BI	n/a	n/a
42DH 52BE	n/a n/a	n/a n/a
3701	24.89	21.41
2102 2124	n/a n/a	n/a n/a
2901	n/a	n/a
211C	n/a	n/a
221F 211D	n/a n/a	n/a n/a
2002	26.34	22.4
2928 2903	25.09 n/a	20.58 n/a
2929	25.02	22.03
2101 2902	n/a n/a	n/a n/a
2930	24.89	18.08
3105	n/a 25.29	n/a
3901 3001	25.29 25.29	18.49 12.67
3217	27.88	23.77
3019 40GA	26.44 n/a	n/a n/a
4101B	26.49	22.99
4010 40GB	26.7 n/a	20.12 n/a
4001A	26.29	13.44
4102A	27.1	n/a
40FG 40FI	n/a n/a	n/a n/a
40FH	n/a	n/a
19FA 1103	n/a 27.7	n/a n/a
11DE	n/a	n/a
11DG 11DD	n/a n/a	n/a n/a
10DI	n/a	n/a
1104 11CJ	n/a n/a	n/a n/a
11CH	n/a	n/a
11CI	n/a	n/a
10DJ 11DA	n/a n/a	n/a n/a
11DB	n/a	n/a
2003 2201	n/a n/a	n/a n/a
2108	27.88	n/a
22FD 2107	n/a n/a	n/a n/a
211B	n/a	n/a
21CG	n/a	n/a
2103 211A	27.58 n/a	23.31 n/a
201C	n/a	n/a
201D 2125	n/a n/a	n/a n/a
201A	n/a	n/a
201B 3702	n/a 24.74	n/a 19.9
3702 37JE	24.74 n/a	n/a
371A	n/a	n/a
37JH	n/a	n/a

Manhole Reference	Manhole Cover Level	Manhole Invert Level	
1704	27.73	23.22	
3703	n/a	n/a	
37AH	n/a	n/a	
38CI	n/a	n/a	
38CA	n/a	n/a	
3814	23.94	n/a	
38EI	n/a	n/a	
38DF	n/a	n/a	
181A	n/a	n/a	
38FD	n/a	n/a	
38FE	n/a	n/a	
38DI	n/a	n/a	
3802	n/a	n/a	
38GA	n/a	n/a	
2803	n/a	n/a	
1808	26.21	22.82	
1810	26.13	n/a	
1901	25.96	10.77	
1902	n/a	n/a	
19BC	n/a	n/a	
4902A	n/a	n/a	
19BG	n/a	n/a	
19ED	n/a	n/a	
2703	25.97	22.3	
2701	25.41	9.46	
1805	26.63	n/a	
19GF	n/a	n/a	
19FC	n/a	n/a	
1703	27.45	22.73	
19FE	n/a	n/a	
1802	26.8	21.57	
181C	n/a	n/a	
19EH	n/a	n/a	
19EI	n/a	n/a	
1811	26.09	21.32	
181B	n/a	n/a	
1911	n/a	n/a	
19IH	n/a	n/a	
1101	27.58	22.24	
10CH	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)



### **Sewer Fittings**

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

Air Valve

Dam Chase

Fitting

Meter

♦ Vent Column

#### **Operational Controls**

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

Control Valve

Drop Pipe

Ancillary

✓ Weir

#### **End Items**

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

Outfall

Undefined End

/ Inle

#### 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.)

M Invert Level

< Summit

#### Areas

Lines denoting areas of underground surveys, etc.

Agreement

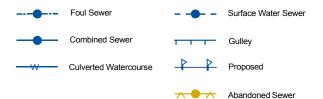
Operational Site

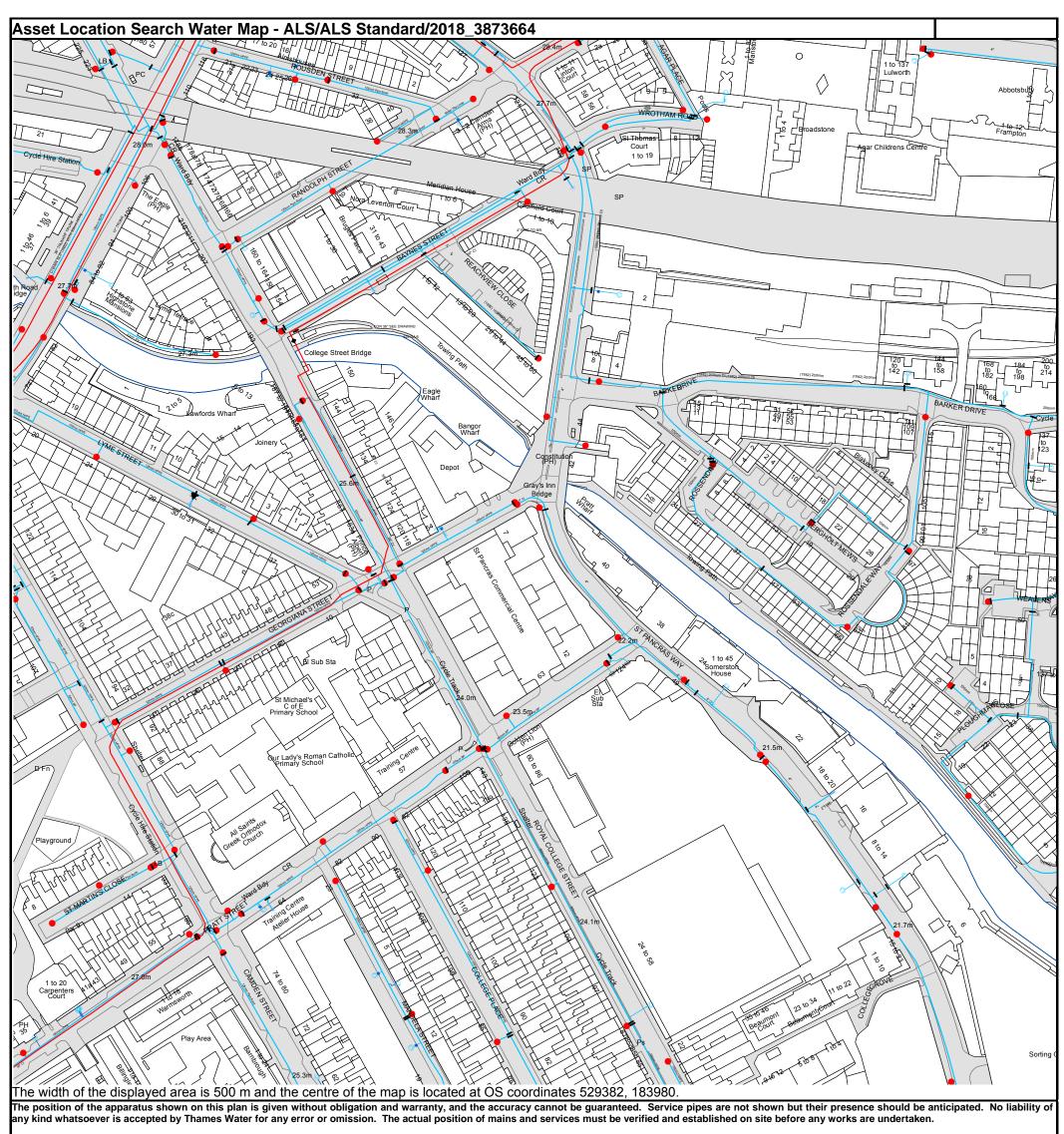
Chamber

Tunnel

Conduit Bridge

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





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



# Water Pipes (Operated & Maintained by Thames Water)

	- <b>P</b> (- <b>P</b>
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 **Booster Station** Air Valve Other Pressure ControlValve Other (Proposed) Customer Valve **Pumping Station** Service Reservoir **Hydrants Shaft Inspection** Single Hydrant Treatment Works Meters Unknown Meter Water Tower **End Items Other Symbols** Symbol indicating what happens at the end of L a water main. Data Logger Blank Flange Capped End **Emptying Pit** Undefined End Manifold

**Customer Supply** 

Fire Supply

# Other Water 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. Private Main: 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.
- 6. Penalty interest may be invoked by TWUL in the event of unjustifiable payment delay. Interest charges will be in line with UK Statute Law 'The Late Payment of Commercial Debts (Interest) Act 1998'.
- 7. Interest will be charged in line with current Court Interest Charges, if legal action is taken.
- 8. A charge may be made at the discretion of the company for increased administration costs.

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

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

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

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

### Ways to pay your bill

Credit Card	BACS Payment	Telephone Banking	Cheque
Call <b>0845 070 9148</b> quoting your invoice number starting CBA or ADS / OSS	Account number 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.



# **Search Code**

#### IMPORTANT CONSUMER PROTECTION INFORMATION

This search has been produced by Thames Water Property Searches, Clearwater Court, Vastern Road, Reading RG1 8DB, which is registered with the Property Codes Compliance Board (PCCB) as a subscriber to the Search Code. The PCCB independently monitors how registered search firms maintain compliance with the Code.

#### The Search Code:

- provides protection for homebuyers, sellers, estate agents, conveyancers and mortgage lenders who
  rely on the information included in property search reports undertaken by subscribers on residential
  and commercial property within the United Kingdom
- sets out minimum standards which firms compiling and selling search reports have to meet
- promotes the best practise and quality standards within the industry for the benefit of consumers and property professionals
- enables consumers and property professionals to have confidence in firms which subscribe to the code, their products and services.

By giving you this information, the search firm is confirming that they keep to the principles of the Code. This provides important protection for you.

#### The Code's core principles

Firms which subscribe to the Search Code will:

- display the Search Code logo prominently on their search reports
- act with integrity and carry out work with due skill, care and diligence
- at all times maintain adequate and appropriate insurance to protect consumers
- conduct business in an honest, fair and professional manner
- handle complaints speedily and fairly
- ensure that products and services comply with industry registration rules and standards and relevant laws
- monitor their compliance with the Code

### Complaints

If you have a query or complaint about your search, you should raise it directly with the search firm, and if appropriate ask for any complaint to be considered under their formal internal complaints procedure. If you remain dissatisfied with the firm's final response, after your complaint has been formally considered, or if the firm has exceeded the response timescales, you may refer your complaint for consideration under The Property Ombudsman scheme (TPOs). The Ombudsman can award compensation of up to £5,000 to you if he finds that you have suffered actual loss as a result of your search provider failing to keep to the Code.

Please note that all queries or complaints regarding your search should be directed to your search provider in the first instance, not to TPOs or to the PCCB.

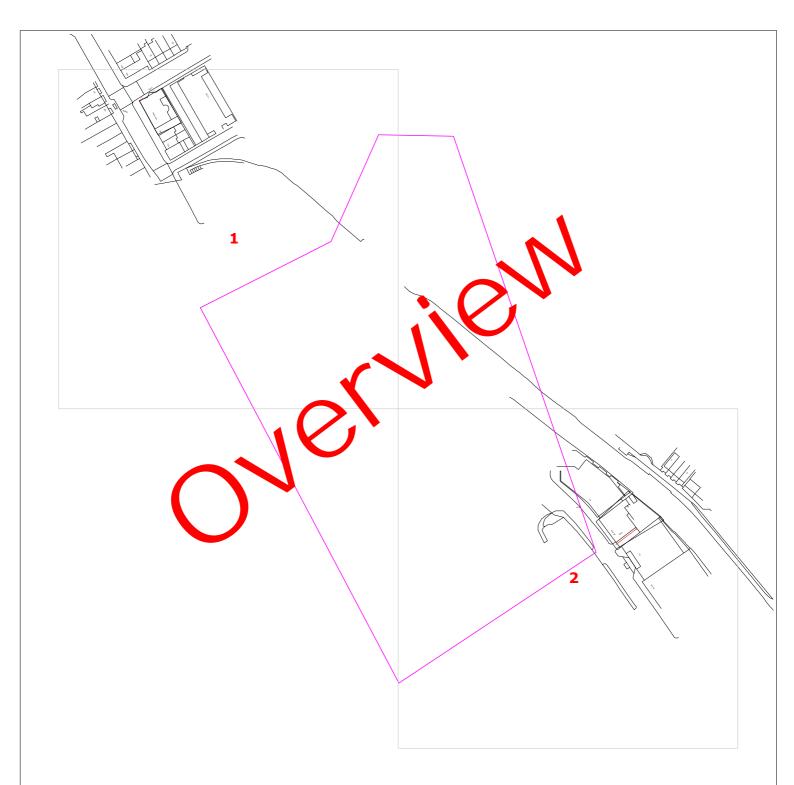
#### **TPOs Contact Details**

The Property Ombudsman scheme Milford House 43-55 Milford Street Salisbury Wiltshire SP1 2BP Tel: 01722 333306

Fax: 01722 332296 Email: admin@tpos.co.uk

You can get more information about the PCCB from www.propertycodes.org.uk

PLEASE ASK YOUR SEARCH PROVIDER IF YOU WOULD LIKE A COPY OF THE SEARCH CODE



Date Requested: 14/09/2018 Requested by: Adam Sneddon Job Reference: 13735222

Company: Greenhatch Group Ltd Your Scheme/Reference: St Pancras

# Key for Mains & Service Pipework

Existing LP mains or services operating up to 75 millibar gauge

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

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

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

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

THIS DRAWING IS THE COPYRIGHT OF ES PIPELINES LIMITED AND MAY NOT BE REPRODUCED WITHOUT WRITTEN CONSENT ®



ESP Utilities Group Ltd Bluebird House Mole Business Park Leatherhead Surrey

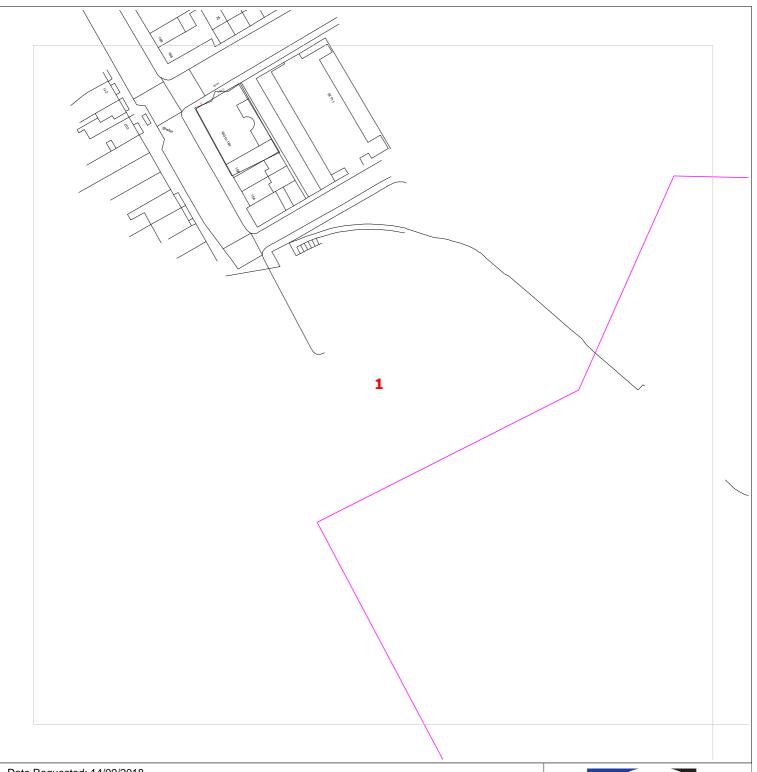
Surrey KT22 7BA

Phone: 01372 587500 Email: info@espug.com

Dig Sites:

Area

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



Date Requested: 14/09/2018 Requested by: Adam Sneddon Job Reference: 13735222

Company: Greenhatch Group Ltd Your Scheme/Reference: St Pancras

# Key for Mains & Service Pipework

Existing LP mains or services operating up to 75 millibar gauge

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

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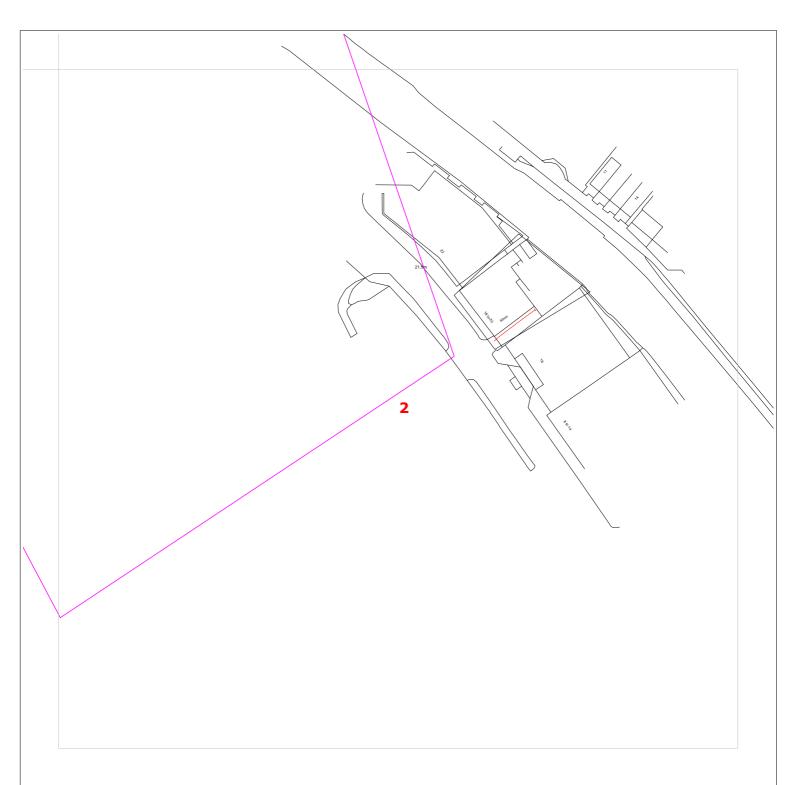
Surrey KT22 7BA

Phone: 01372 587500 Email: info@espug.com

Dig Sites:

Area

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



Date Requested: 14/09/2018 Requested by: Adam Sneddon Job Reference: 13735222

Company: Greenhatch Group Ltd Your Scheme/Reference: St Pancras

# Key for Mains & Service Pipework

Existing LP mains or services operating up to 75 millibar gauge

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

Existing IP mains or services operating between 2 bar and 7

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bar gauge

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Area

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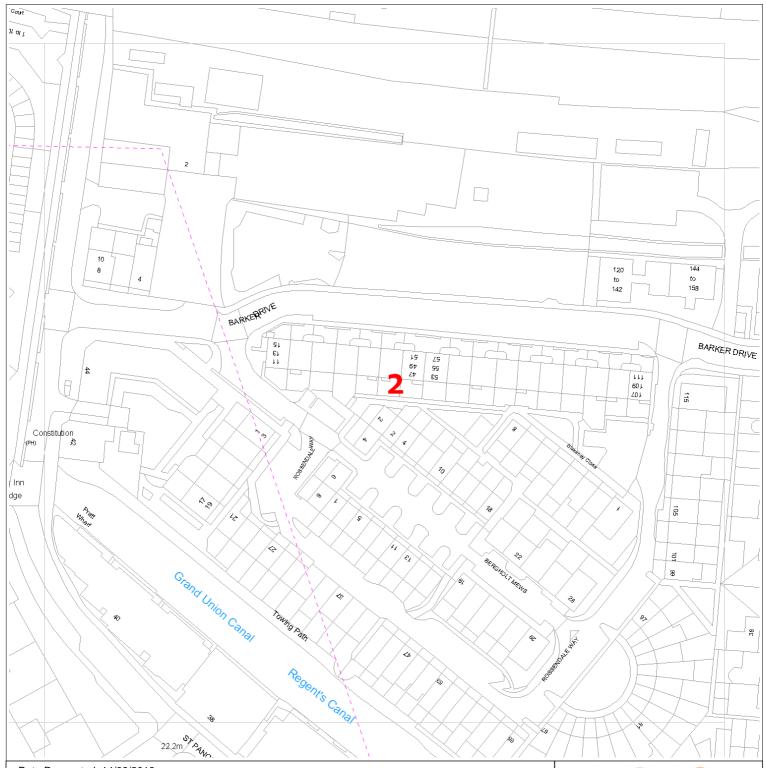
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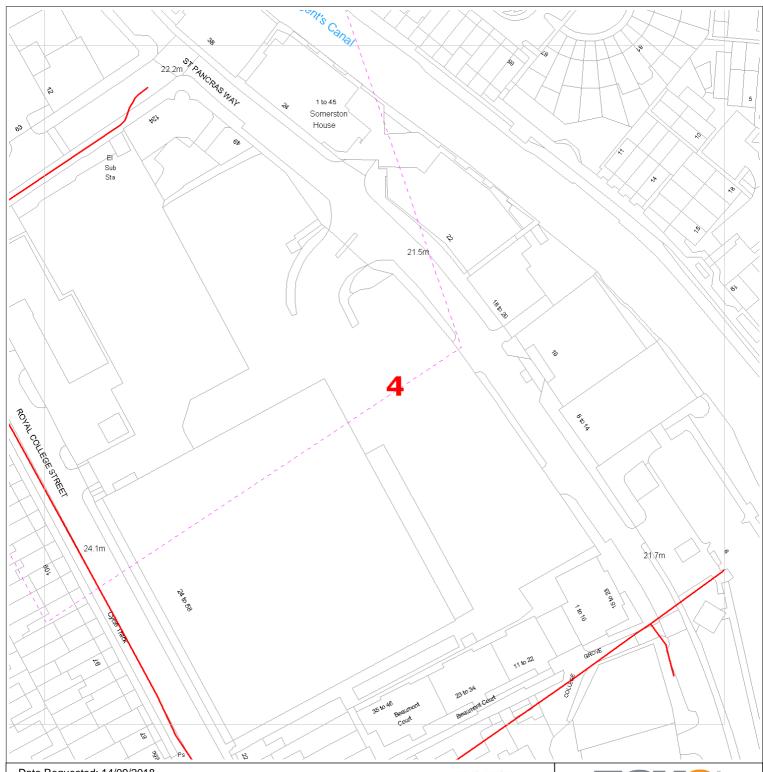
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