

Stag Brewery, Mortlake

Foul Sewage and Utilities Assessment

For Reselton Properties

February 2018

Former Stag Brewery Foul Sewage and Utilities Assessment



Audit sheet

Rev.	Date	Description	Prepared	Verified
A1	February 2018	First Issue	GS/NF	ос
A2	February 2018	Updated to incorporate comments	GS/NF	ОС
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Former Stag Brewery Foul Sewage and Utilities Assessment



Introduction

This Foul Sewage and Utilities Assessment report has been prepared by Hoare Lea on behalf of Reselton Properties Limited ('the Applicant') in support of three linked planning applications for the comprehensive redevelopment of the former Stag Brewery Site in Mortlake ('the Site') within the London Borough of Richmond Upon Thames ('LBRuT').

The former Stag Brewery Site is bounded by Lower Richmond Road to the south, the river Thames and the Thames Bank to the north, Williams Lane to the east and Bulls Alley (off Mortlake High Street) to the west. The Site is bisected by Ship Lane. The Site currently comprises a mixture of large scale industrial brewing structures, large areas of hardstanding and playing fields.

The redevelopment will provide homes (including affordable homes), accommodation for an older population, complementary commercial uses, community facilities, a new secondary school alongside new open and green spaces throughout. Associated highway improvements are also proposed, which include works at Chalkers Corner junction.

The three planning applications are as follows:

- Application A hybrid planning application for comprehensive mixed use redevelopment of the former Stag Brewery site consisting of:
 - i. Land to the east of Ship Lane applied for in detail (referred to as 'Development Area 1' throughout); and
 - ii. Land to the west of Ship Lane (excluding the school) applied for in outline detail (referred to as 'Development Area 2' throughout).
- Application B detailed planning application for the school (on land to the west of Ship Lane).
- Application C detailed planning application for highways and landscape works at Chalkers Corner.

This report demonstrates early engagement with the electricity, gas, water and sewage utility providers to determine the availability of capacity within the existing infrastructure around the development.

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Summary

The below summary provides a status of the utility applications.

Service	Provider	Quote Received	Summary of Works
Electricity	UKPN	Yes	Installation of 5No. substations at ground level across the proposed development to provide 6000kVA, with connection into the existing network.
Gas	Squire Energy	No	Quotation issued for 2No. energy centre supplies, 26No. commercial supplies and domestic supplies for the town houses. Squire Energy have confirmed receipt of application and in the process of providing a quotation.
Water	Thames Water	Yes	A budget quote has been received from Thames Water detailing the new supply requirements. Within the quotation Thames Water state that they will need to carry out further network analysis.
Drainage	Thames Water	Capacity confirmation requested	A Pre-Development enquiry has been submitted to Thames Water to confirm that the existing public sewer network has the capacity to accommodate the foul flows.

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UK Power Networks – Electricity

Asset Search

Existing UKPN record drawings have been obtained indicating HV and LV cable routes around the perimeter of the site and some cable routes on the existing site. There is reference to the 'Watneys Switch House 06864' on UKPN record drawing ref: p216906448 located adjacent to the footbridge in Ship Lane which indicate an existing HV network on site. Through discussions with UKPN this existing capacity is being retained to serve the proposed development. Refer to UKPN Asset Drawings below.

Application Requirements

An application has been made to UKPN to provide a new 6000kVA supply for the site (combined application) and install 5No. new substations located at ground floor level across the proposed development.

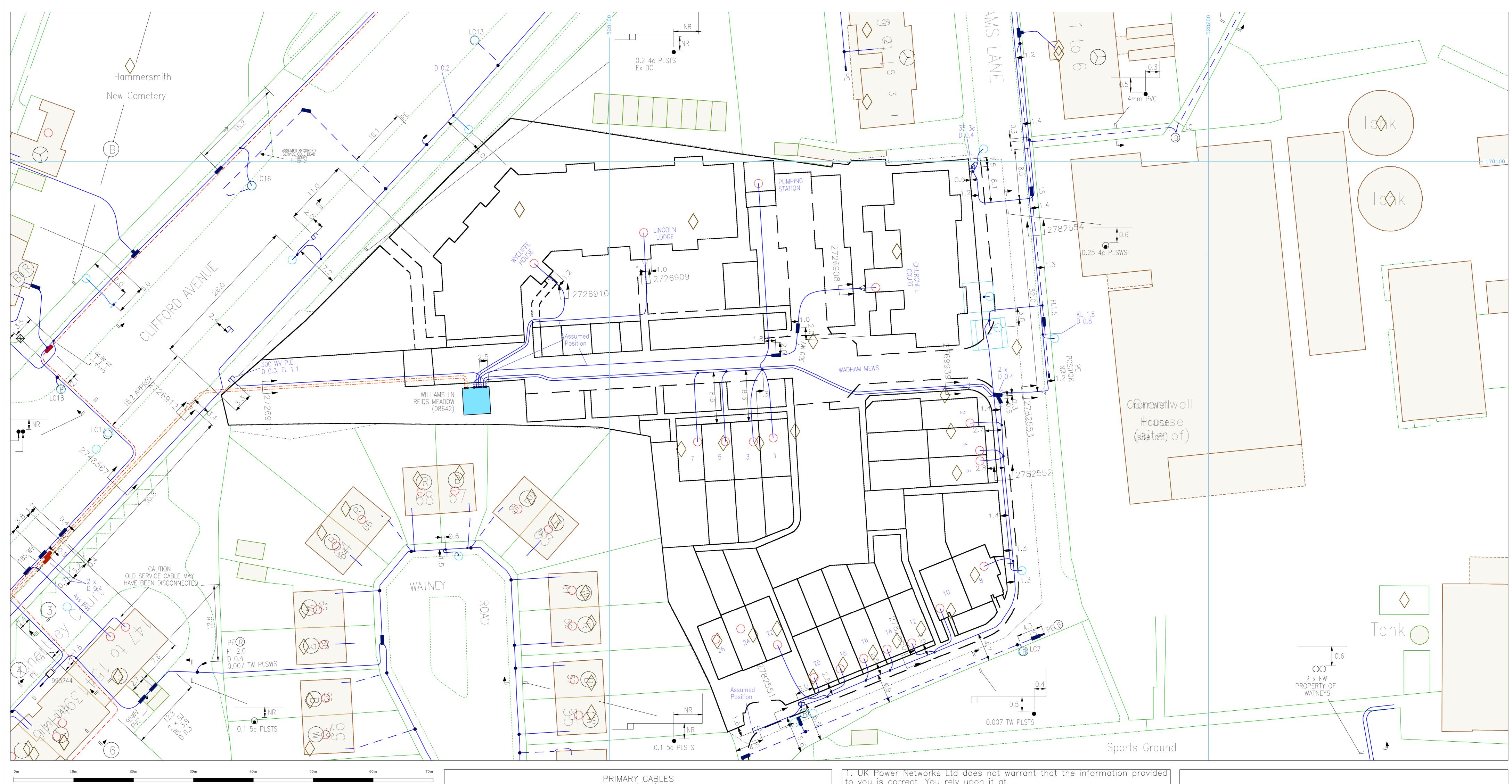
Status

A Budget quote has been received from UKPN for the above proposed works and the current HV capacity on the existing site is to be retained for the proposed development. The next step is to obtain a finalised quotation. Refer to UKPN Budget Quotation below.

Former Stag Brewery Foul Sewage and Utilities Assessment



UKPN Asset Drawings





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Plot Description: THE STAG BRWERY, LOWER RICHMOND ROAD, LONDON SW14 7ET

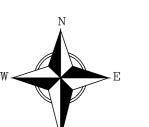
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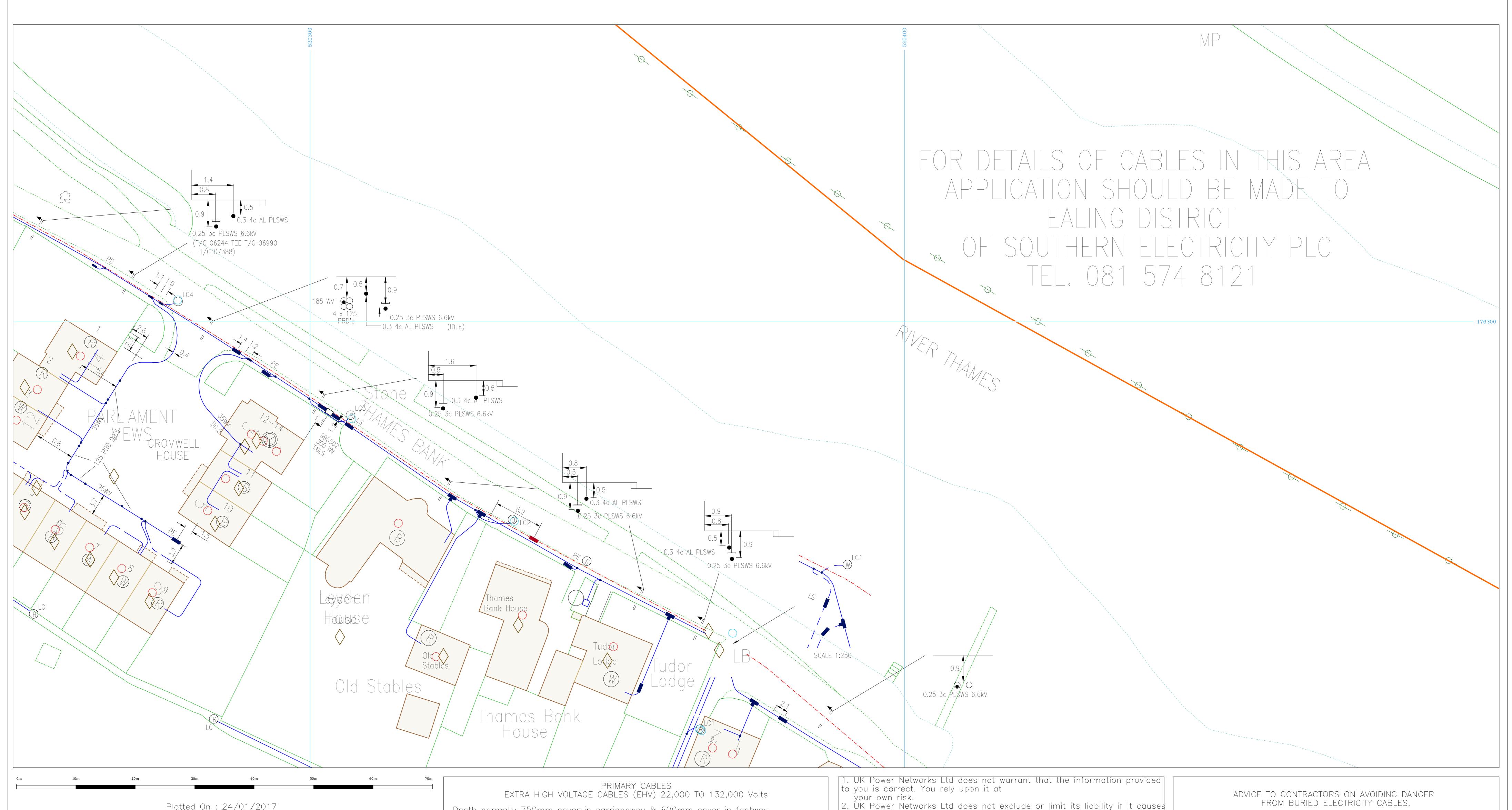
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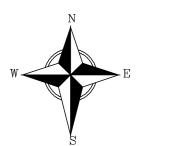
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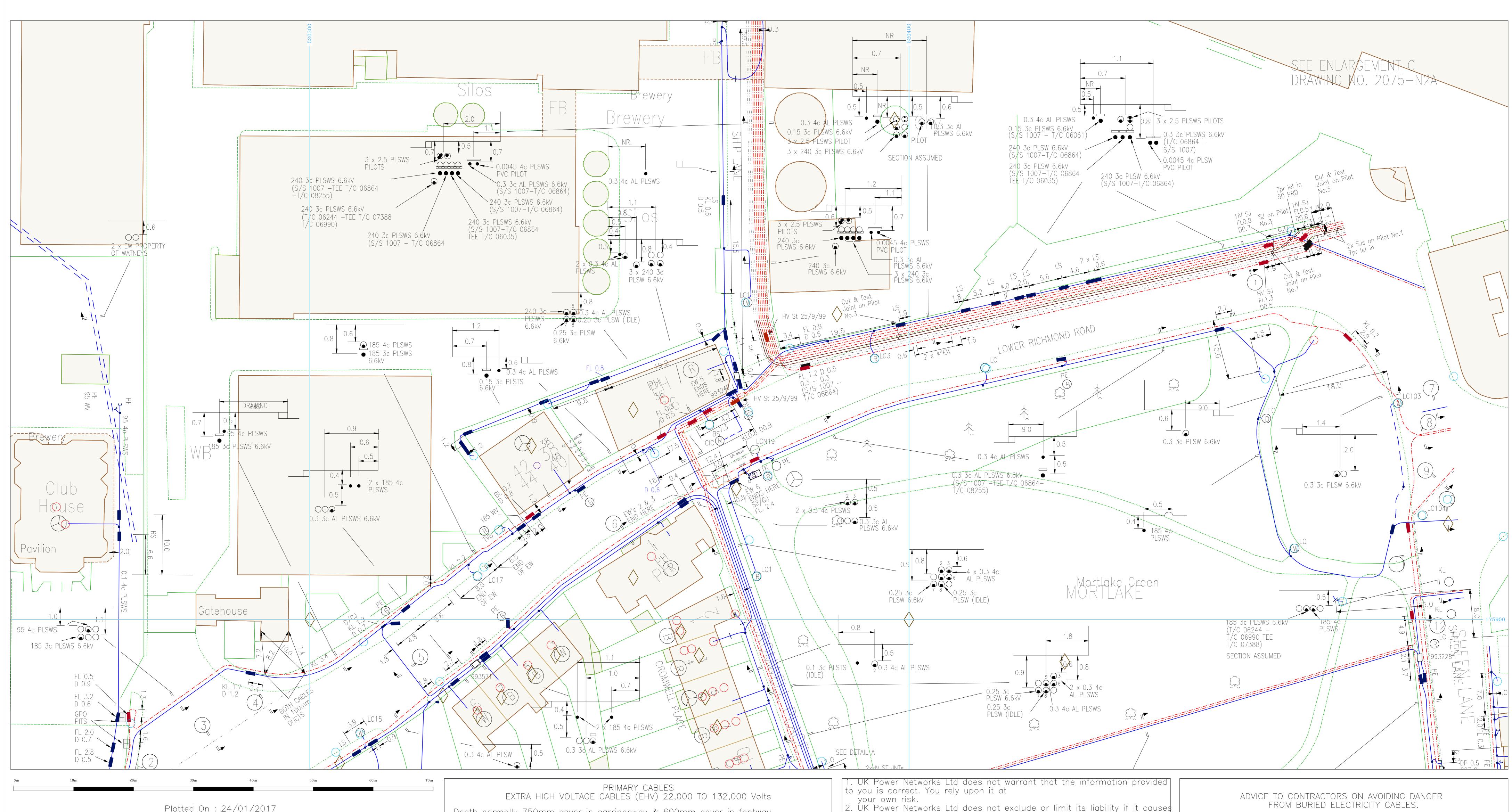
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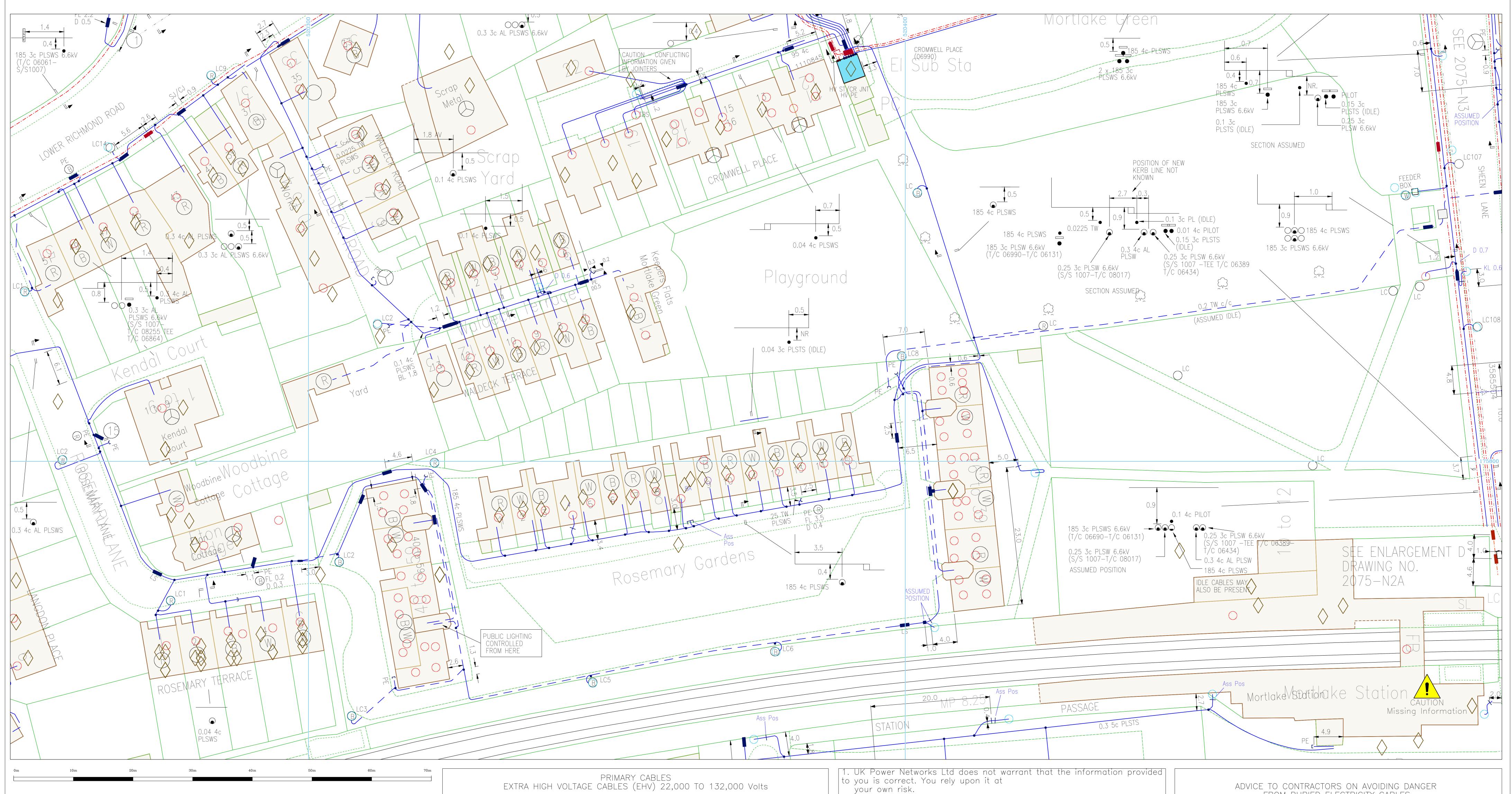
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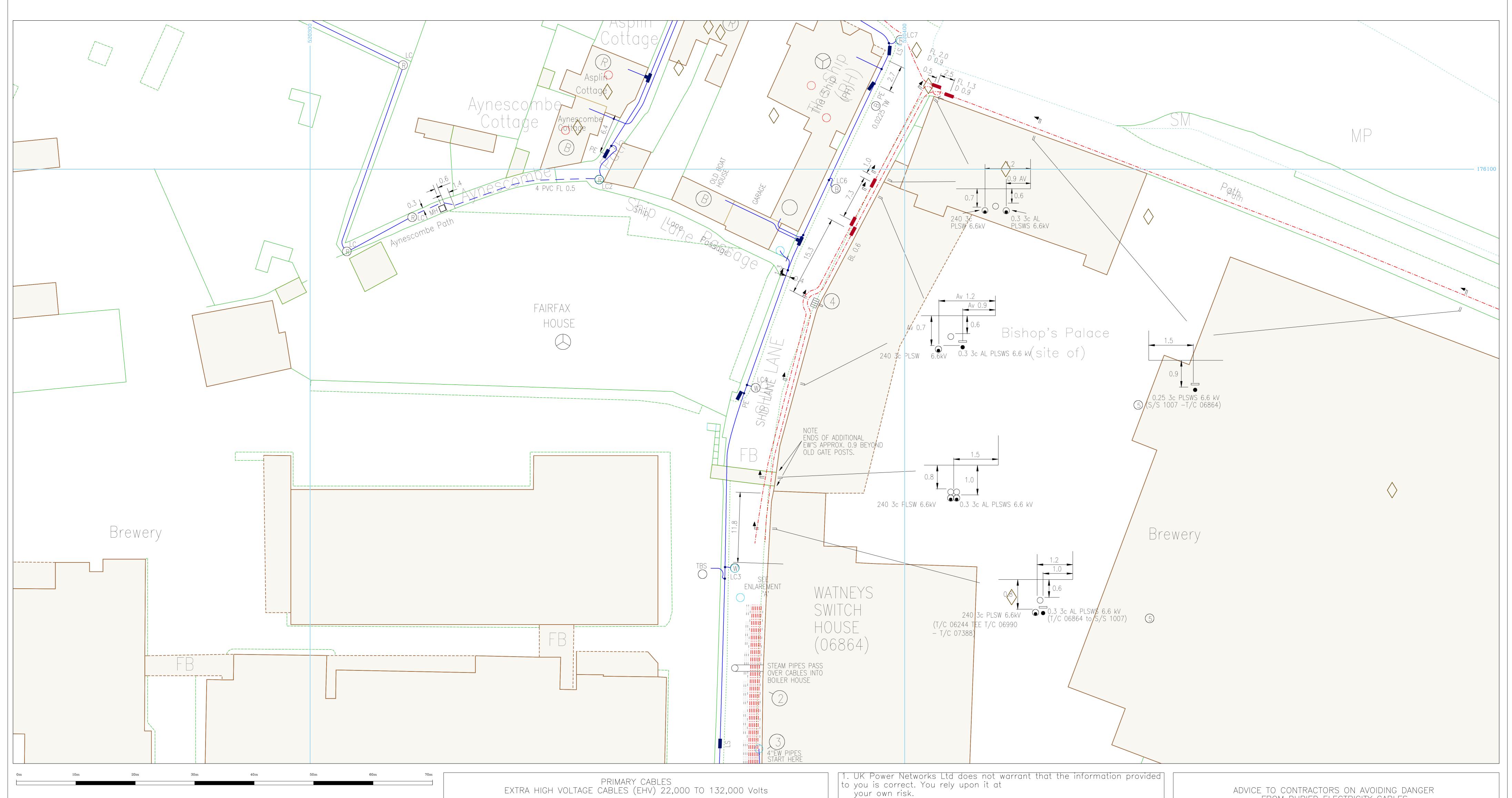
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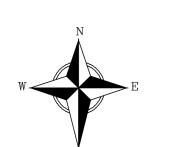
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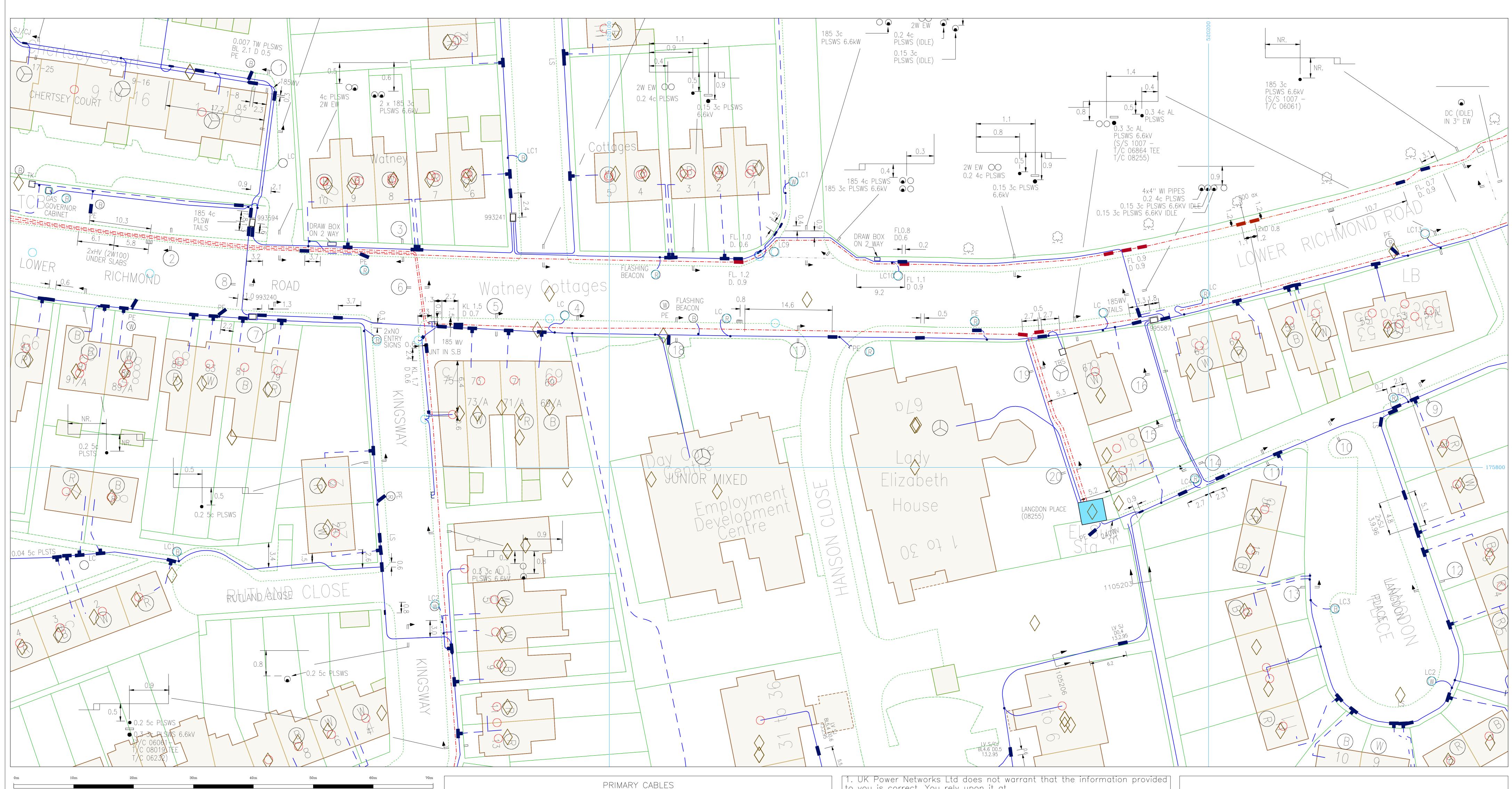
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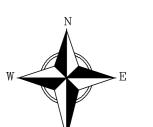
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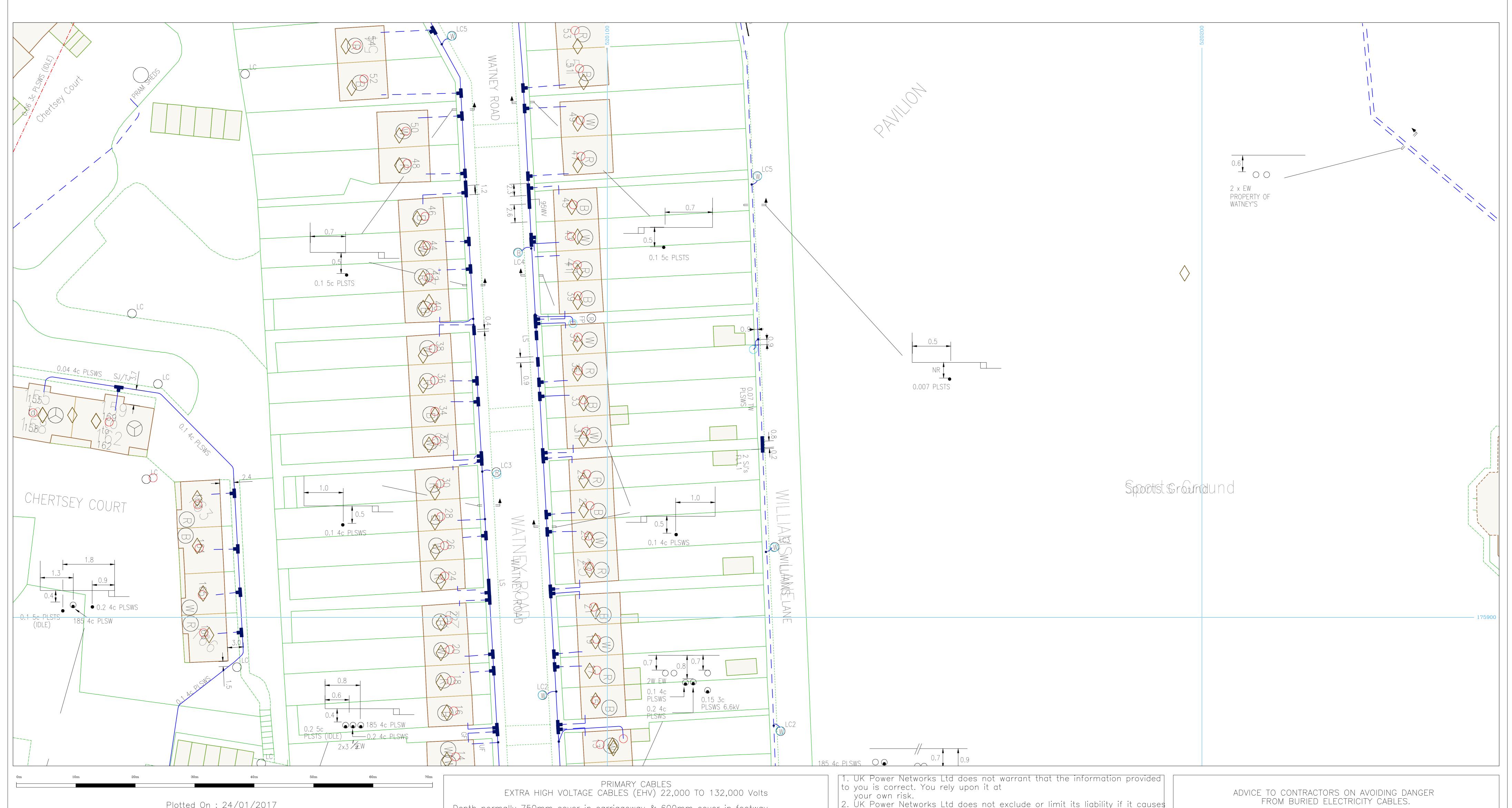
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Plotted By : Kav Singh

Plot Description: THE STAG BRWERY, LOWER RICHMOND ROAD, LONDON SW14 7ET

2017/2244506/comp

Map Centre : TQ2075NW

UK Power Networks Plan Provision Fore Hamlet IPSWICH Suffolk IP3 8AA Tel 0800 0565 866

Fax 08701 963782



For details of the symbology please refer to http://www.ukpowernetworks.co.uk/safety—emergencies/in—the—workplace/understanding—safety—symbols.shtml

Depth normally 750mm cover in carriageway & 600mm cover in footway.

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N.B. THRUST BORERS OR MOLES MUST NOT BE USED WITHIN THE VICINITY OF ANY CABLES BELONGING TO UK POWER NETWORKS WITHOUT FIRST CONTACTING THIS COMPANY.

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the death of a 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 Ltd has no liability to you in contract, in tort (including negligence),

for breach of statutory duty or otherwise howsoever 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.

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FROM BURIED ELECTRICITY CABLES.

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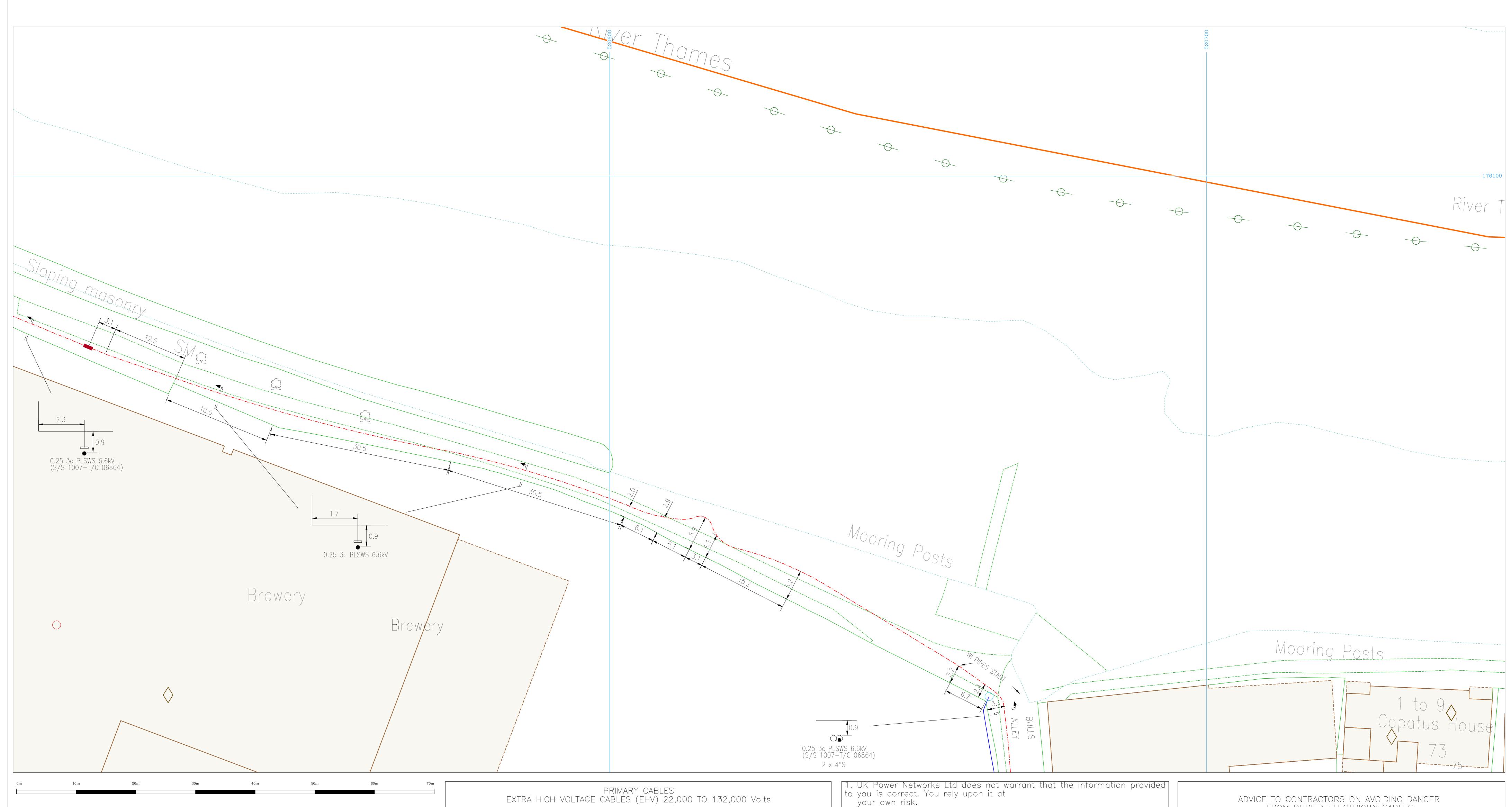
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Plotted By : Kav Singh

Plot Description: THE STAG BRWERY, LOWER RICHMOND ROAD, LONDON SW14 7ET

2017/2244506/comp

Map Centre : TQ2076SE

UK Power Networks Plan Provision Fore Hamlet IPSWICH Suffolk IP3 8AA

Tel 0800 0565 866

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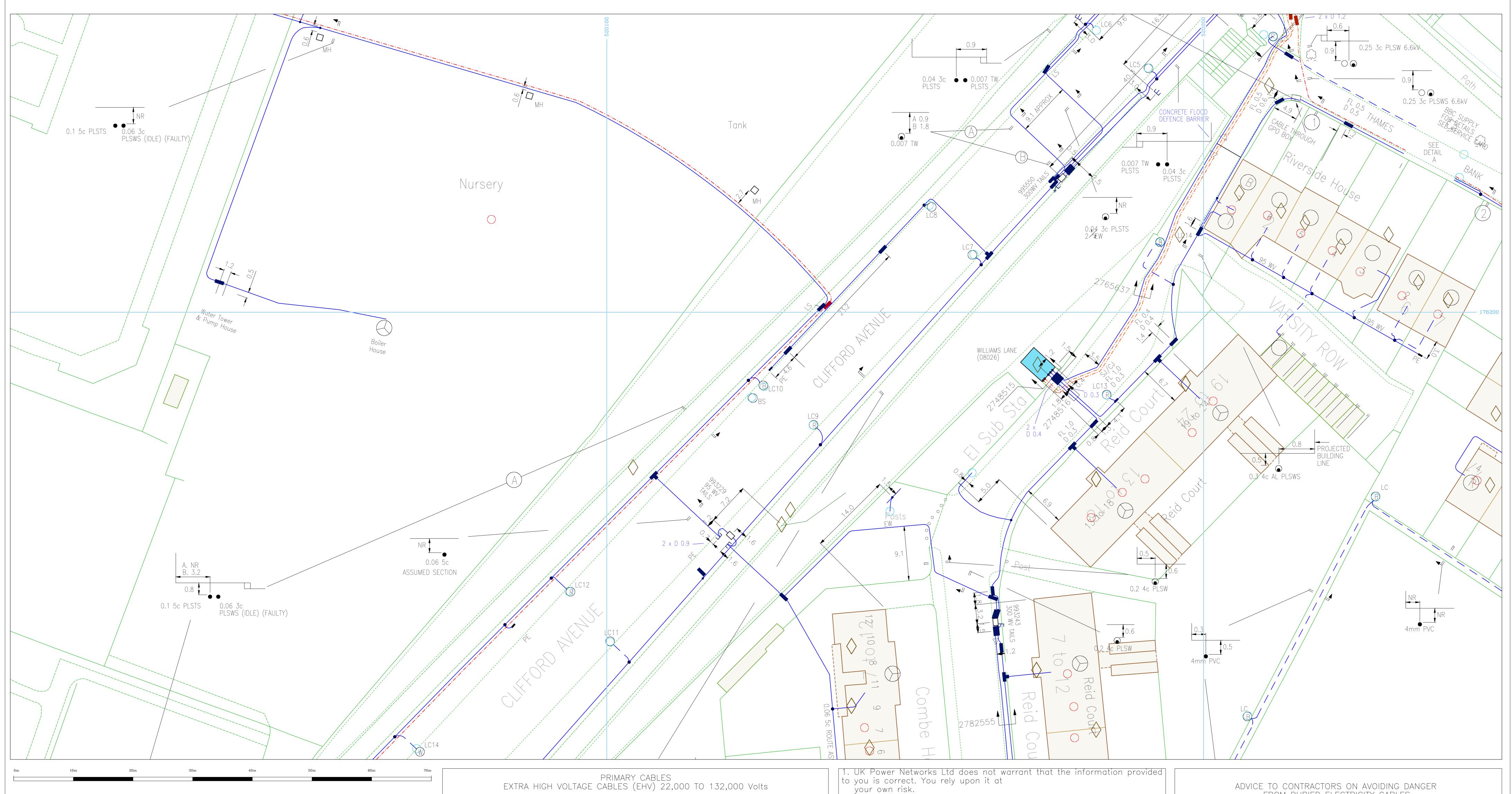
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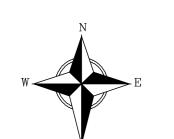
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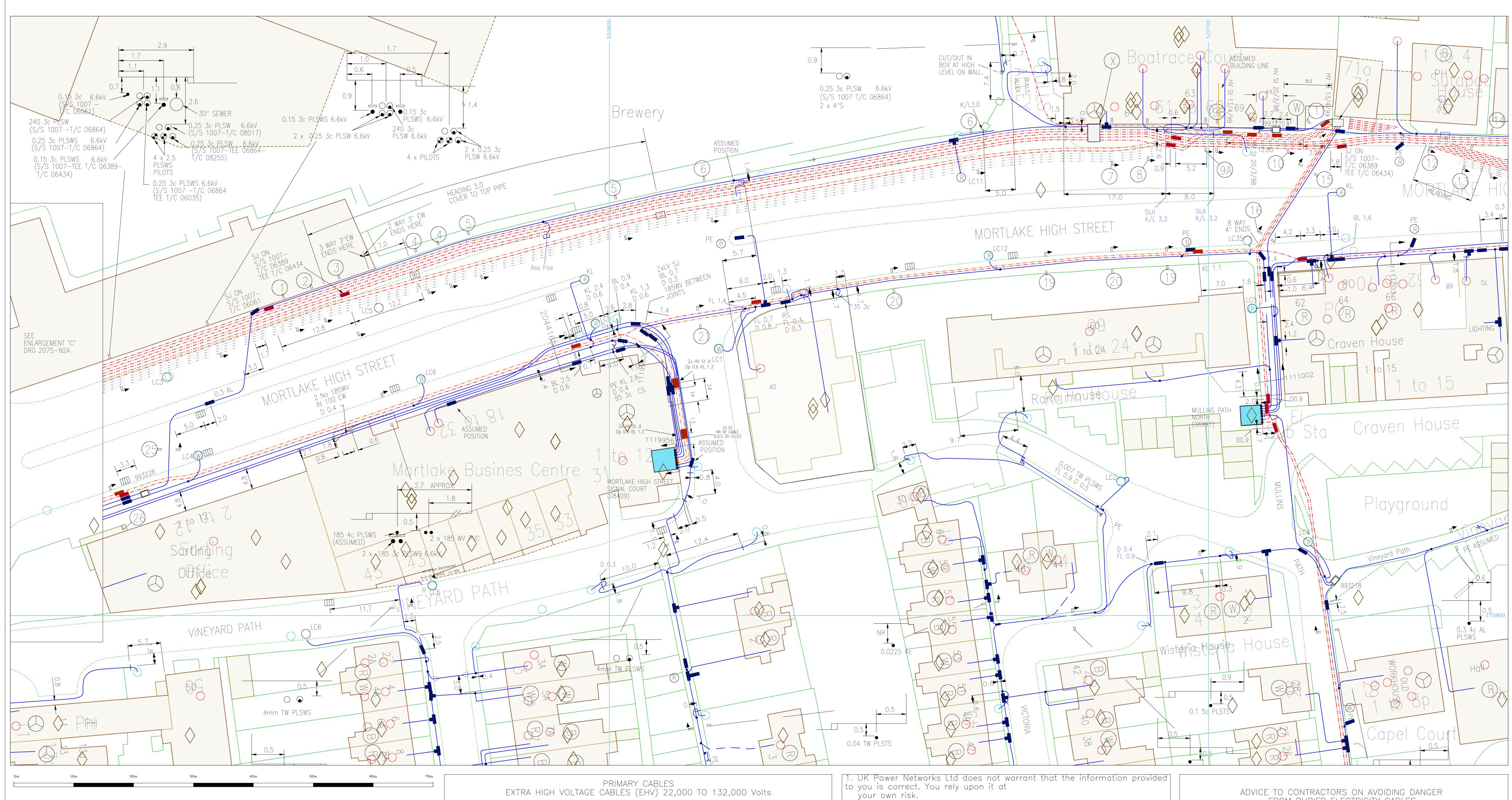
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Plotted By : Kav Singh

Plot Description: THE STAG BRWERY, LOWER RICHMOND ROAD, LONDON SW14 7ET

2017/2244506/comp

Map Centre : TQ2075NE

UK Power Networks Plan Provision Fore Hamlet IPSWICH Suffolk IP3 8AA Tel 0800 0565 866

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HS(G)47 — Avoiding Danger from Underground Services, a copy of which

Former Stag Brewery Foul Sewage and Utilities Assessment



UKPN Budget Quotation



Registered Office Newington House 237 Southwark Bridge Road London SE1 6NP Company: UK Power Networks (Operations) Limited

Registered in England and Wales No: 3870728

Ms. Elena Pujol Hoare Lea Enterprise House 11, Old School Close Ferndown Dorset BH22 9UN

01 March 2017

Our Ref: 8600006243 / QID 3000009566

Dear Ms. Pujol,

Site Address: The Stag Brewery, London SW14 7ET

Thank you for your recent enquiry regarding the above premises. I am writing to you on behalf of London Power Networks plc the licensed distributor of electricity for the above address trading as UK Power Networks.

I am pleased to be able to provide you with a budget estimate for the work.

It is important to note that this budget estimate is intended as a guide only. It may have been prepared without carrying out a site visit or system studies. No enquiry has been made as to the availability of consents or the existence of any ground conditions that may affect the ground works. It is not an offer to provide the connection and nor does it reserve any capacity on UK Power Networks electricity distribution system.

Budget estimate:

The cost for the works is estimated at £240,000.00 (exclusive of VAT) if the Point Of Connection (POC) is at our Barnes B Main substation

Description of works

- We will install and commission 7 x Genie Evo Panel switchboard for your connection in a brick built enclosure constructed by you
- We will install approximately 500m of HV main cables and 500m of pilot cables (assuming the switchroom is in the centre of the development)
- We will carry out all jointing and fitting works.

This budget estimate is based on the following assumptions:

- The most appropriate Point of Connection (POC) is as described above.
- The customer will provide the substation enclosure including lighting
- The customer will carry out all on site excavation works
- The substation is located in the middle of the development

- The existing substation Watneys Switch House 06864 is decommissioned (cost not included in this budget estimate)
- A viable cable or overhead line route exists along the route we have assumed between the Point of Connection (POC) and your site.
- In cases where the Point of Connection (POC) is to be at High Voltage, that a substation can be located on your premises at or close to the position we have assumed.
- Where electric lines are to be installed in private land UK Power Networks will require an easement in perpetuity for its electric lines and in the case of electrical plant the freehold interest in the substation site, on UK Power Networks terms, without charge and before any work commences.
- You will carry out, at no charge to UK Power Networks, all the civil works within the site boundary, including substation bases, substation buildings where applicable and the excavation/reinstatement of cable trenches.
- Unless stated in your application, all loads are assumed to be of a resistive nature. Should you intend to install equipment that may cause disturbances on UK Power Networks' electricity distribution system (e.g. motors; welders; etc.) this may affect the estimate considerably.
- All UK Power Networks' work is to be carried out as a continuous programme of work that can be completed substantially within 12 months from the acceptance of the formal offer.

Please note that if any of the assumptions prove to be incorrect, this may have a significant impact on the price in any subsequent quotation. You should note also that UK Power Networks' formal connection offer may vary considerably from the budget estimate. If you place reliance upon the budget estimate for budgeting or other planning purposes, you do so at your own risk.

If you would like to proceed to a formal offer of connection then you should apply for a quotation, Please refer to our website

http://www.ukpowernetworks.co.uk/internet/en/help-and-advice/documents/the connection process.pdf for `The connection process' which details our application process. To help us progress any future enquiry as quickly as possible please quote the UK Power Networks Reference Number from this letter on all correspondence.

If you have any questions about your budget estimate or need more information, please do not hesitate to contact me. The best time to call is between the hours of 9am and 4pm, Monday to Friday. If the person you need to speak to is unavailable or engaged on another call when you ring, you may like to leave a message or call back later.

Yours sincerely

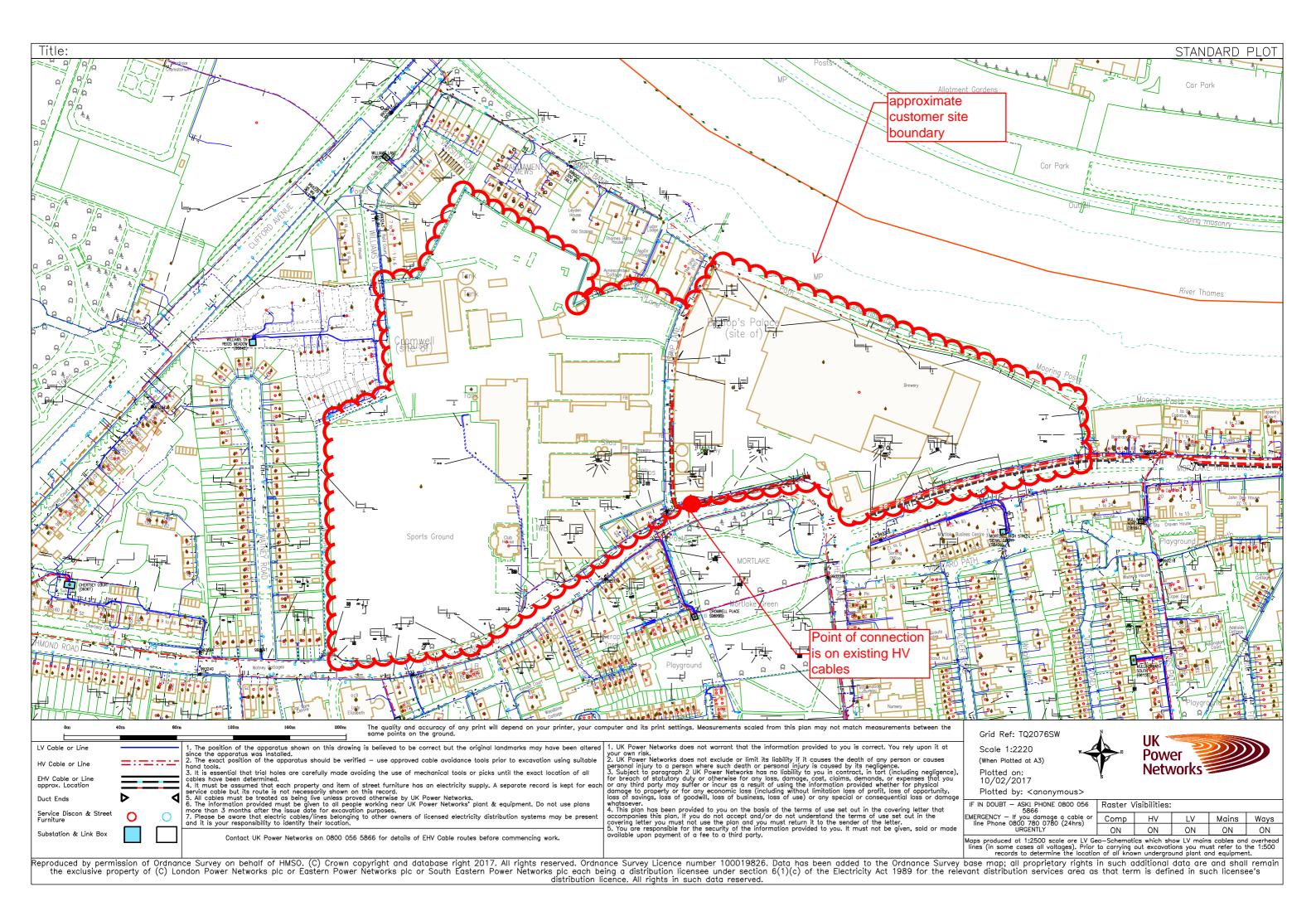
Mr. Zhen Wang Centenary House

Thomware

London, West Ham E16 4ET

07812262721

zhen.wang@ukpowernetworks.co.uk



Former Stag Brewery Foul Sewage and Utilities Assessment



Squire Energy - Gas

Asset Search

Record drawing information has been obtained from National Grid indicating existing low pressure mains surrounding the site running along Ship Land and Lower Richmond Road. Record drawings indicate that the site has a number of connections via underground pipework from various locations on the perimeter. Refer to Gas Asset Drawings below.

Application Requirements

An application has been made to Squire Energy 2No. supplies for the energy centres to the east and west of Ship Lane and 24No. commercial supplies for the community facilities, school and the accommodation for the older population. Domestic supplies have been requested for the town houses.

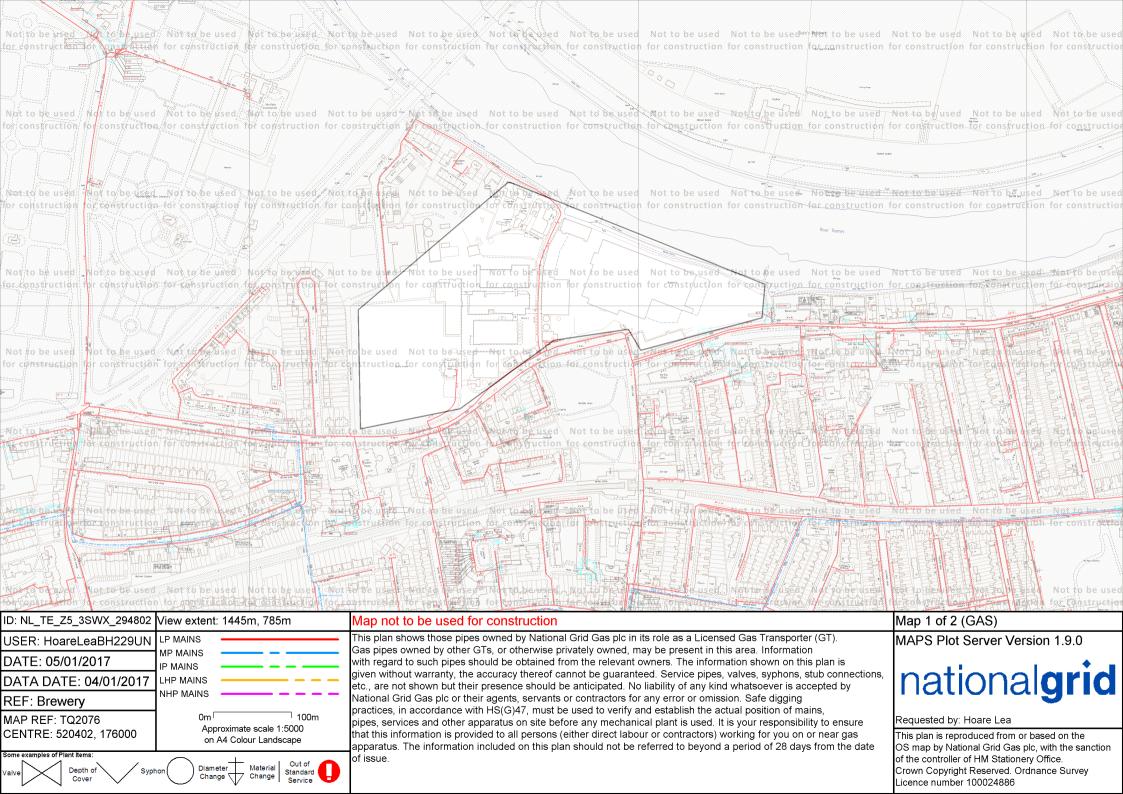
Status

Squire Energy has confirmed receipt of the application and we are awaiting a formal quotation.

Former Stag Brewery Foul Sewage and Utilities Assessment



Gas Asset Drawings



Former Stag Brewery Foul Sewage and Utilities Assessment



Thames Water - Water Services

Asset Search

Record drawings have been obtained from Thames Water indicating existing water services within and surrounding the site. Record drawings indicate that the site has a number of trunk mains in Lower Richmond Road serving smaller distribution mains along Ship Lane. The record information shows existing connections into the proposed site. Refer to Thames Water Asset Drawings below.

Application Requirements

An application has been made Thames Water to provide new supplies for the central water distribution system, as well as individual supplies for the community facilities, school and the accommodation for the older population. Domestic supplies have been requested for the town houses.

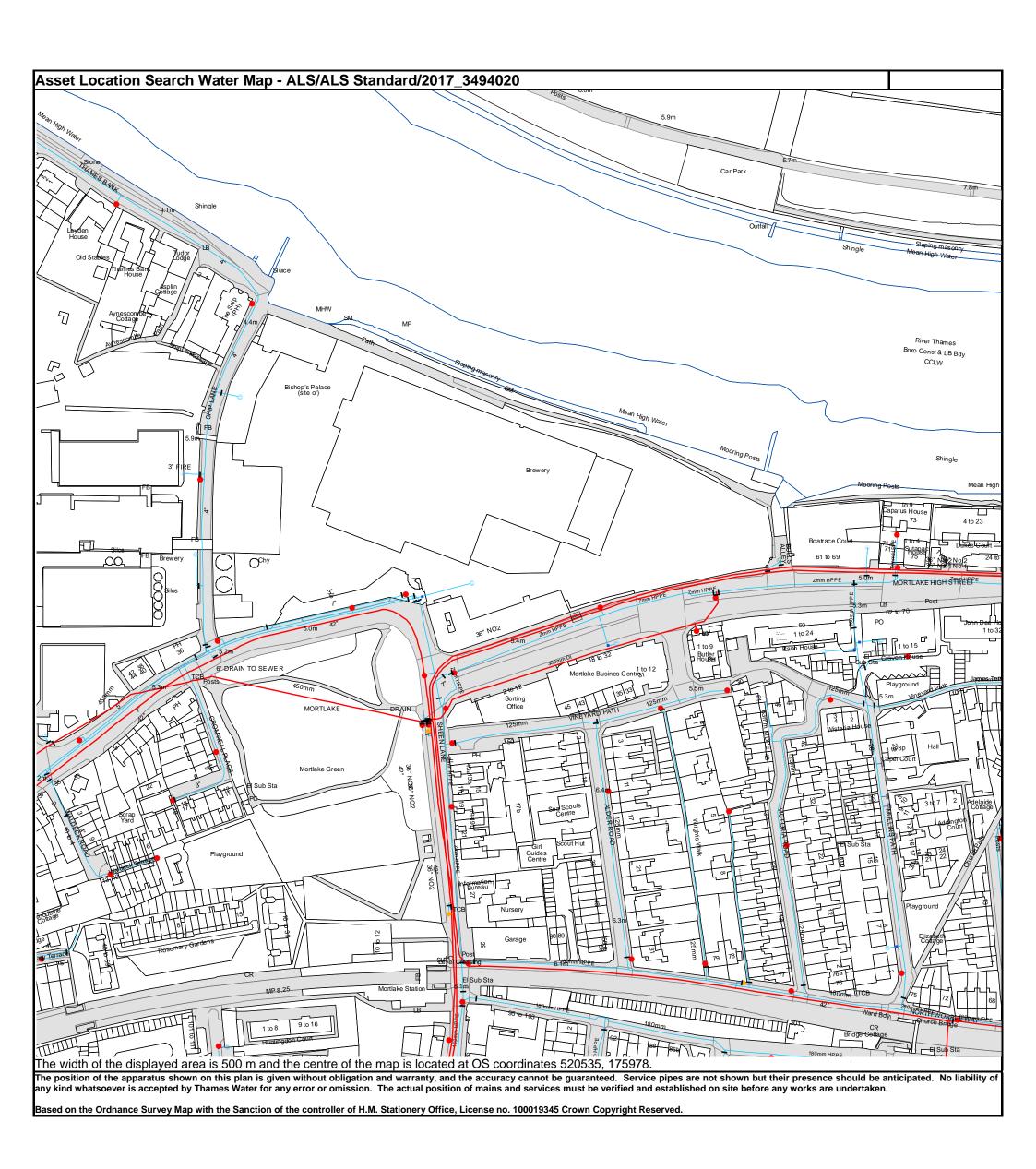
Status

A budget quote has been received from Thames Water detailing the new supply requirements above. Within the quotation Thames Water state that they will need to carry out further network analysis. Refer to Thames Water Budget Quotation below.

Former Stag Brewery Foul Sewage and Utilities Assessment



Thames Water Asset Drawings



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



Water Pipes (Operated & Maintained by Thames Water)

Distribution Main: The most common pipe shown on water maps. With few exceptions, domestic connections are only made to distribution mains. Trunk Main: 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. Supply Main: A supply main indicates that the water main is used 3" SUPPLY as a supply for a single property or group of properties. Fire Main: Where a pipe is used as a fire supply, the word FIRE will 3" FIRE be displayed along the pipe. Metered Pipe: A metered main indicates that the pipe in question 3" METERED 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. Transmission Tunnel: 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.

Valves

General PurposeValve

Air Valve

Pressure ControlValve

Customer Valve

Hydrants

Single Hydrant

Meters

Meter

End Items

Symbol indicating what happens at the end of $^{\perp}$ a water main.

Blank Flange
Capped End
Emptying Pit

Undefined End

Customer Supply

Manifold

Fire Supply

Operational Sites

Booster Station
Other
Other (Proposed)
Pumping Station
Service Reservoir
Shaft Inspection
Treatment Works
Unknown

Water Tower

Other Symbols

_____ Data Logger

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')

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.

Proposed Main: 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.

Former Stag Brewery Foul Sewage and Utilities Assessment



Thames Water Budget Quotation



Elena Pujol Hoare Lea Enterprise House Old School Close Ferndown Dorset BH22 9UN









17th November 2017

Your clean water budget estimate / point of connection report.

Site location: The Stag Brewery, Lower Richmond Road, Mortlake, London, SW14 7ET.

Dear Elena

Thank you for your correspondence dated 16th November 2017 regarding the above redevelopment consisting of domestic dwellings, domestic apartments, care home, assisted living apartments, cinema, community facilities, health centre, hotel, management office, retail units, offices and a school..

Please be aware that this report is based upon the details and drawings provided. If there are any subsequent changes to the details and information on your drawing, the contents of this report will become invalid and a new assessment will be needed.

We've listed below the approximate costs to serve the site. Subject to survey, additional costs may be applicable, such as traffic management, parking bay suspensions or lane rental charges.

You'll need to make single payments for each activity (such as the flow and pressure test, modelling report or impact assessment). Please also quote our DS6041414 reference number when paying to avoid any delay.

Finding your best fit

When arranging supplies for your site, we want you to choose the installer that best suits your needs and timescales. This may or may not be us. Independent self-lay providers could be able to offer cost-effective terms and fit in better with your construction programme, and might also be able to install multiple utilities. You can find out more about the self-lay option at developers.thameswater.co.uk/Developing-a-large-site/Using-a-self-lay-provider

Contaminated land

If our assessment of your full soil report deems the site to be 'contaminated', you'll need to install mains and service connections using barrier pipe, rather than plastic pipe.



What to do next

If you'd like to proceed with your design, you can apply for a formal quotation for water supply to <u>developer.services@thameswater.co.uk</u> for the attention of the self-lay team or design team.

For more information, see <u>developers.thameswater.co.uk/domestic-and-small-commercial/water-supply/new-or-replacement-water-supply/how-to-get-a-quote</u>.

Network capacity

As a result of our assessment, we'll need to carry out further investigations before we can more thoroughly assess the requirements for supplying the site.

This site will require network modelling analysis to determine the effect of the new demand on the local and strategic network.

The cost and duration of this analysis varies according to the complexity of the job and the availability of data for the area. The cost can vary between £2,000 and £35,000, with a report delivery time of up to 30 weeks.

In order to proceed with this investigation, we'll need to prepare a briefing for our network analysis group. Due to the work involved we'll require an initial non-refundable deposit of £100 + VAT (a total of £120) to provide you with a quote and timescales for the investigation specific to your site. If you decide to proceed, we'll deduct this sum from the final cost. We'll use the results to indicate what action needs to be taken, both local and strategic, to allow our network to support the new demand. We'll provide a report including an indication, where possible, of costs associated with any such work.

The modelling study will investigate:

- Understanding current operation/current demands of the zone
- Revising model demands to reflect current demand forecast
- Identifying impact of development and review solutions
- Preparing modelling report and liaising with our operations team
- Approval and sign off

What to do next

We require payment for the modelling in advance please, by one of the following methods:

 By cheque, made payable to Thames Water Utilities Ltd, which can be sent marked for my attention to:

Developer Services

First Floor West

Clearwater Court

Vastern Road

Reading

Berkshire

RG18DB

 By card, by calling 0800 009 3921, quoting our reference number DS6041414. We'll send you an invoice showing your payment on receipt of your instruction.



 Online, using the link below and quoting our DS reference number. Please contact me directly when you've made payment, or if you've any further questions, on 0203 577 8737 or Karl.Tuchscherer@ThamesWater.Co.UK

Apply online: my.thameswater.co.uk/dynamic/cps/rde/xchg/corp/hs.xsl/18743.htm

For more details on network capacity, please visit <u>developers.thameswater.co.uk/developing-a-large-site/planning-your-development/water-capacity</u>.

Fire hydrant and sprinkler demand

Please note that we aren't able to confirm whether a fire hydrant or sprinkler demand can be accommodated on a new connection. You'll need to contact an independent consultant or specialist company for hydrant testing for fire-fighting purposes.

Working near our assets

If you're planning significant work near our assets, it's important you minimise the risk of damaging them. You can find more information at <u>developers.thameswater.co.uk/domestic-and-small-commercial/building-near-pipes</u>.

Diversions

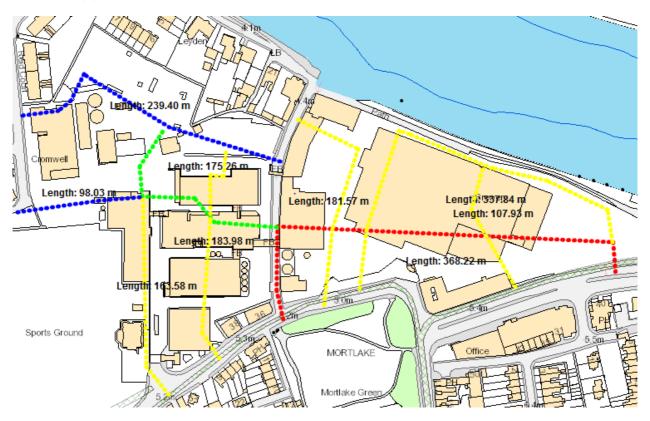
From our records, we don't anticipate that any clean water assets need to be diverted to accommodate your proposals.

Please note that any diversion is charged at full cost, payable in advance. You'll need to apply for this work, and can do so online at

my.thameswater.co.uk/dynamic/cps/rde/xchg/corp/hs.xsl/18730.htm



New main(s) point of connection location



New main(s) and water supply connections cost

There are two options available for installation of mains and water supply connections:

- Self-lay option, where a self-lay provider carries out the work on our behalf and we adopt
 the asset once completed. Self-lay providers are independent companies who you can
 ask to provide competitive quotes, and may be able to offer more flexible timescales, or
 be able to install multiple utilities.
- Statutory option, where we carry out the work.

Budget cost for works undertaken:

Activity required	Self-lay budget cost	Statutory budget cost
Onsite Mainlaying: Lay	Total: £178,935.00	Total: £178,935.00
approximately 370 metres of 250mm diameter HPPE water	Asset Payment: £169,144.00	DAD: £9,790.00
main in carriage way and unmade ground, 185 metres of 180mm diameter HPPE water main in unmade ground, 340 metres of 125mm diameter HPPE water main in unmade ground and 965 metres of 90mm diameter HPPE water main in unmade ground.	The above costs are only applicable if the site is requisitioned as one package	The above costs are only applicable if the site is requisitioned as one package



Building 2:1 x 90mm metered MDPE bulk supply from the proposed main and the supply of 103 internal fit meters which need to be fitted within the riser cupboards in the public spaces on each floor at a height of no more than 1,500mm from the floor level	Total: £8,562.39 103 x 20mm diameter meter, supply to be laid by the Self Lay Company	Total: £15,562.39
Building 3:1 x 63mm metered MDPE bulk supply from the proposed main and the supply of 45 internal fit meters which need to be fitted within the riser cupboards in the public spaces on each floor at a height of no more than 1,500mm from the floor level	Total: £3,740.85 45 x 20mm diameter meter, supply to be laid by the Self Lay Company	Total: £6,740.85
Building 4:1 x 63mm metered MDPE bulk supply from the proposed main and the supply of 20 internal fit meters which need to be fitted within the riser cupboards in the public spaces on each floor at a height of no more than 1,500mm from the floor level	Total: £1,662.60 20 x 20mm diameter meter, supply to be laid by the Self Lay Company	Total: £4,662.60
Building 5 Hotel: 1 x 63mm metered MDPE bulk supply form the existing main in The Lower Richmond Road	Total: £261.02 1 x 50mm diameter meter, supply to be laid by the Self Lay Company	Total: £3,500.00
Building 6:1 x 50mm metered MDPE bulk supply from the proposed main and the supply of 16 internal fit meters which need to be fitted within the riser cupboards in the public spaces on each floor at a height of no more than 1,500mm from the floor level	Total: £1,330.08 16 x 20mm diameter meter, supply to be laid by the Self Lay Company	Total: £3,830.08
Building 7:1 x 90mm metered MDPE bulk supply from the proposed main and the supply of 71 internal fit meters which need to be fitted within the riser cupboards in the public spaces on each floor at a height of no more	Total: £5,902.23 71 x 20mm diameter meter, supply to be laid by the Self Lay Company	Total: £12,902.23



than 1,500mm from the floor level		
Building 8:1 x 90mm metered MDPE bulk supply from the proposed main and the supply of 74 internal fit meters which need to be fitted within the riser cupboards in the public spaces on each floor at a height of no more than 1,500mm from the floor level	Total: £6,151.62 74 x 20mm diameter meter, supply to be laid by the Self Lay Company	Total: £13,151.62
Building 9:1 x 50mm metered MDPE bulk supply from the proposed main and the supply of 13 internal fit meters which need to be fitted within the riser cupboards in the public spaces on each floor at a height of no more than 1,500mm from the floor level	Total: £1,080.69 13 x 20mm diameter meter, supply to be laid by the Self Lay Company	Total: £3,580.69
Building 10:1 x 63mm metered MDPE bulk supply from the proposed main and the supply of 27 internal fit meters which need to be fitted within the riser cupboards in the public spaces on each floor at a height of no more than 1,500mm from the floor level	Total: £2,244.51 27 x 20mm diameter meter, supply to be laid by the Self Lay Company	Total: £5,244.51
Building 11:1 x 90mm metered MDPE bulk supply from the proposed main and the supply of 46 internal fit meters which need to be fitted within the riser cupboards in the public spaces on each floor at a height of no more than 1,500mm from the floor level	Total: £3,823.98 46 x 20mm diameter meter, supply to be laid by the Self Lay Company	Total: £6,823.98
Building 12:1 x 63mm metered MDPE bulk supply from the proposed main and the supply of 37 internal fit meters which need to be fitted within the riser cupboards in the public spaces on each floor at a height of no more than 1,500mm from the floor level	Total: £3,075.81 37 x 20mm diameter meter, supply to be laid by the Self Lay Company	Total: £6,075.81



Duilding 12:1 v 62mm matered	Total: 62 225 20 40 × 20	Total: C6 225 20
Building 13:1 x 63mm metered MDPE bulk supply from the proposed main and the supply of 40 internal fit meters which need to be fitted within the riser cupboards in the public spaces on each floor at a height of no more than 1,500mm from the floor level	Total: £3,325.20 40 x 20mm diameter meter, supply to be laid by the Self Lay Company	Total: £6,325.20
Building 14:1 x 63mm metered MDPE bulk supply from the proposed main and the supply of 41 internal fit meters which need to be fitted within the riser cupboards in the public spaces on each floor at a height of no more than 1,500mm from the floor level	Total: £3,408.33 41 x 20mm diameter meter, supply to be laid by the Self Lay Company	Total: £6,408.33
Building 15:1 x 63mm metered MDPE bulk supply from the proposed main and the supply of 41 internal fit meters which need to be fitted within the riser cupboards in the public spaces on each floor at a height of no more than 1,500mm from the floor level	Total: £3,408.33 41 x 20mm diameter meter, supply to be laid by the Self Lay Company	Total: £6,408.33
Building 16:1 x 90mm metered MDPE bulk supply from the proposed main and the supply of 44 internal fit meters which need to be fitted within the riser cupboards in the public spaces on each floor at a height of no more than 1,500mm from the floor level	Total: £3,657.72 44 x 20mm diameter meter, supply to be laid by the Self Lay Company	Total: £10,657.72
Building 17:1 x 63mm metered MDPE bulk supply from the proposed main and the supply of 42 internal fit meters which need to be fitted within the riser cupboards in the public spaces on each floor at a height of no more than 1,500mm from the floor level	Total: £3,491.46 42 x 20mm diameter meter, supply to be laid by the Self Lay Company	Total: £6,491.46
Building 18:1 x 125mm metered MDPE bulk supply from the proposed main and the supply of 127 internal fit meters which need	Total: £10,557.51 127 x 20mm diameter meter, supply to be laid by the Self Lay	Total: £19,557.51



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to be fitted within the riser cupboards in the public spaces on each floor at a height of no more than 1,500mm from the floor level	Company	
Building 19:1 x 90mm metered MDPE bulk supply from the proposed main and the supply of 48 internal fit meters which need to be fitted within the riser cupboards in the public spaces on each floor at a height of no more than 1,500mm from the floor level	Total: £3,990.24 48 x 20mm diameter meter, supply to be laid by the Self Lay Company	Total: £10,990.24
Building 20:1 x 63mm metered MDPE bulk supply from the proposed main and the supply of 36 internal fit meters which need to be fitted within the riser cupboards in the public spaces on each floor at a height of no more than 1,500mm from the floor level	Total: £2,992.68 36 x 20mm diameter meter, supply to be laid by the Self Lay Company	Total: £5,992.68
Building 21:1 x 50mm metered MDPE bulk supply from the proposed main and the supply of 24 internal fit meters which need to be fitted within the riser cupboards in the public spaces on each floor at a height of no more than 1,500mm from the floor level	Total: £1,995.12 24 x 20mm diameter meter, supply to be laid by the Self Lay Company	Total: £4,495.12
Individual domestic dwellings: 24 x 25mm diameter metered supplies with 20mm diameter meters, supplies from the proposed main	Total: £1,995.12 24 x 20mm diameter meter, supply to be laid by the Self Lay Company	Total: £14,880.00
Cinema: 1 x 50mm diameter supply with 40mm diameter meter supply from the proposed main	Total: £191.51 1 x 40mm diameter meter, supply to be laid by the Self Lay Company	Total: £2,500.00
Retail Units/Restaurant's: 25/32mm diameter metered supplies with 20mm diameter meters	Please allow £83.13 per each 20mm diameter meter, supplies to be laid by the Self Lay Company	Please allow £620.00 per each 25/32mm diameter metered supplies
Offices: 25/32mm diameter metered supplies with 20mm	Please allow £83.13 per each 20mm diameter meter,	Please allow £620.00 per each 25/32mm



diameter meters	supplies to be laid by the Self	diameter metered
	Lay Company	supplies
Community Facilities: 25/32mm	Please allow £83.13 per each	Please allow £620.00
diameter metered supplies with	20mm diameter meter,	per each 25/32mm
20mm diameter meters	supplies to be laid by the Self	diameter metered
	Lay Company	supplies
School: 1 x 50mm diameter	Total: £191.51 1 x 40mm	Total: £2,500.00
supply with 40mm diameter meter	diameter meter, supply to be	
supply from the proposed main	laid by the Self Lay Company	
Health Centre: 1 x 32mm	Please allow £83.13 per each	Please allow £620.00
diameter metered supply with	20mm diameter meter, supply	per each 25/32mm
25mm diameter meter	to be laid by the Self Lay	diameter metered
	Company	supply
	-	

- Total: shows a total cost of the scheme
- DAD: Discounted Aggregate Deficit shows the lump sum contribution payable by the developer towards the scheme cost
- Asset payment: shows the forecast sum to be paid to self-lay provider for asset installed and adopted by us

Infrastructure and network charges

Infrastructure Charges:

996 x £365.45 for Water Infrastructure Charges = £363,988.20 996 x £365.45 for Sewerage Infrastructure Charges = £363,988.20

I have made an assessment of the additional infrastructure charges for the additional usage over that for the domestic

Please note that infrastructure charge credits may be applicable based on the water consumption at the site within the last five years.

Building water

It's important that you contact us before you start using water on your building work. If you don't, we'll base your charges on 0.17 per cent of the contract value. For more details visit developers.thameswater.co.uk/domestic-and-small-commercial/water-supply/water-for-building-work

Water quality and hardness

You can check water quality in your area at secure.thameswater.co.uk/dynamic/cps/rde/xchg/corp/hs.xsl/899.htm

Asset location search

You can contact our Property Searches team to request an asset location search (for which a fee is payable) showing where any nearby mains, sewers and other equipment is situated. Please visit thameswater-propertysearches.co.uk or call 0845 070 9148.



Disconnection

If you'd like to permanently disconnect your existing water supply, please apply at secure.thameswater.co.uk/dynamic/cps/rde/xchg/corp/hs.xsl/15131.htm

Important note about this estimate

All information enclosed in this letter is for indicative budgetary purposes only and should by no means be taken as the actual costs for serving this development site. Please note that they are simply an estimate, and that other factors that may have not been taken into consideration could increase these costs.

I hope you find this information helpful. If you've any further queries, please don't hesitate to contact us.

Yours sincerely,

Karl Tuchscherer

Thames Water
Developer Services – Customer Experience Team
developer.services@thameswater.co.uk
0800 009 3921

Former Stag Brewery Foul Sewage and Utilities Assessment



Thames Water - Foul Sewage

Asset Search

Record drawings have been obtained from Thames Water indicating existing foul drainage within and surrounding the site. Record drawings indicate that the site has a number of sewers in Lower Richmond Road and along Ship Lane. Refer to Thames Water Asset Drawings below.

Application Requirements

A Pre-Development enquiry has been submitted to Thames Water to confirm that the existing public sewer network has the capacity to accommodate the foul flows. The existing and proposed foul discharge rates have been calculated using the water consumption method at 14.4 l/s and 25.5 l/s respectively.

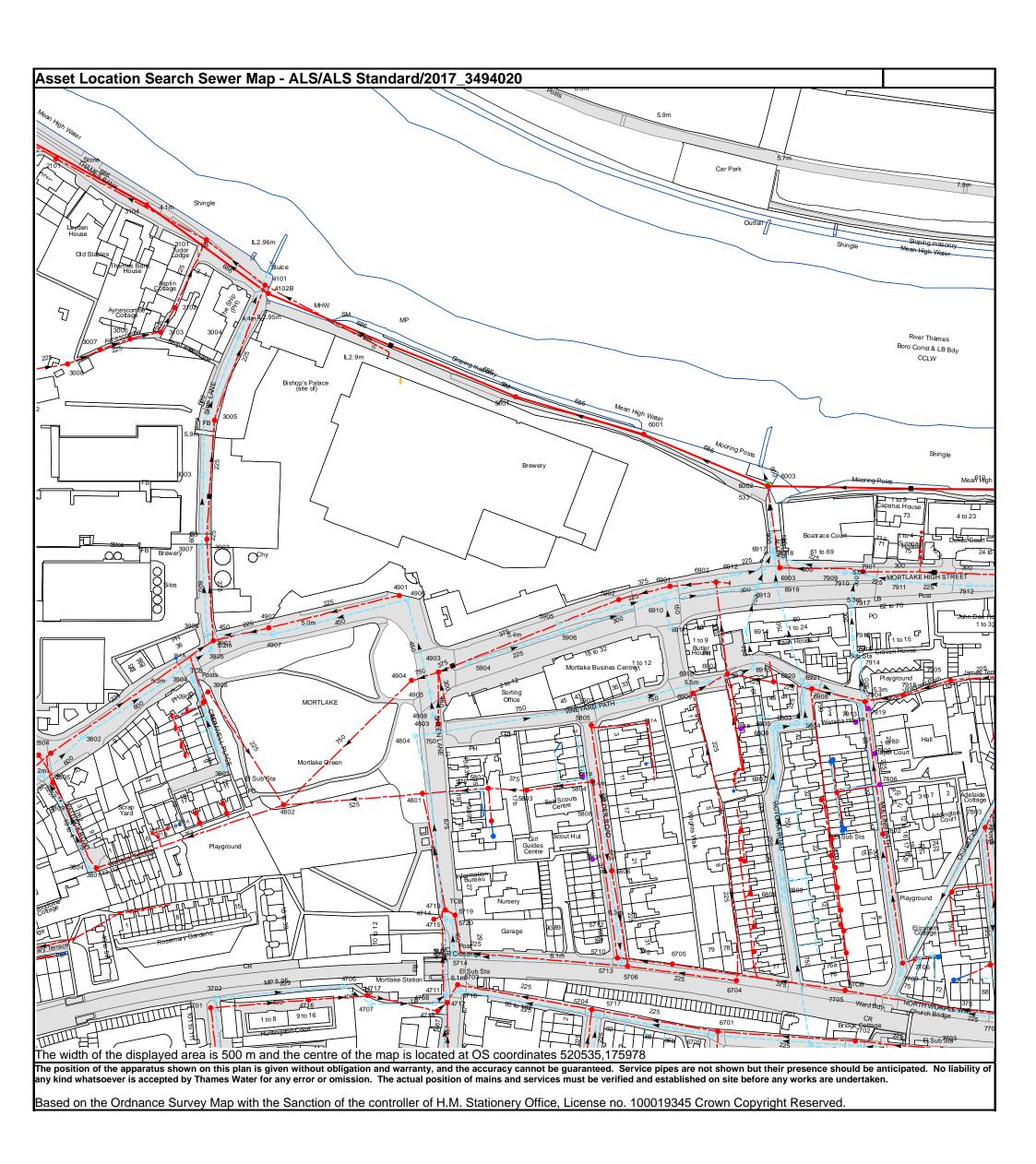
Status

It is understood that foul flows from the existing Stag Brewery component of the Site discharge to the Thames Water foul network in the surrounding highways. It is proposed to mimic this scenario, with new connections into the sewers on Mortlake High Street, Lower Richmond Road, Ship Lane, and Willams Lane according to the proposed building layout.

Former Stag Brewery Foul Sewage and Utilities Assessment



Thames Water Asset Drawings



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

Manhole Reference	Manhole Cover Level	Manhole Invert Level
77MN	n/a	n/a
7905	5.32	2.96
78KN 77KN	n/a n/a	n/a n/a
77KN 7912	5.21	3.71
7804	n/a	n/a
7803	5.69	3.92
7801	5.67	3.09
77MC 781A	n/a n/a	n/a n/a
68JF	n/a	n/a
68JD	n/a	n/a
68JC	n/a	n/a
78LH	n/a	n/a
77LH 77LF	n/a n/a	n/a n/a
77LK	n/a	n/a
7705	6.46	1.76
77LE	n/a	n/a
7702 7711	6.75 6.78	4.27 4.67
7709	6.39	3.48
7706	6.29	3.83
77MK	n/a	n/a
77NF	n/a	n/a
77NC 77NH	n/a n/a	n/a n/a
68ND	n/a	n/a
681D	n/a	n/a
68MN	n/a	n/a
68NH	n/a	n/a
68MM 681B	n/a n/a	n/a n/a
68MF	n/a	n/a
68ML	n/a	n/a
6807	5.66	4.37
6806	5.34	2.58
6805 68LC	5.36 n/a	3.72 n/a
6803	5.3	3.44
6804	5.26	2.5
68KH	n/a	n/a
68NM	n/a	n/a
78LM 78NF	n/a n/a	n/a n/a
78ME	n/a	n/a
78NM	n/a	n/a
78ML	n/a	n/a
781C	n/a 5.07	n/a 3.02
7913 7904	5.06	2.39
7919	n/a	n/a
7805	n/a	n/a
7806	n/a	n/a
7802 6907	5.84 5.38	3.2 2.03
69NK	n/a	n/a
6912	4.72	2.17
6914	5.5	1.63
6915	5.27	1.67
6913 6003	4.82 3.64	1.52 .92
6002	3.64 n/a	.92 -4.41
6917	4.57	1.51
69NC	n/a	n/a
6918	4.6	1.82
6919 6903	4.82 4.71	2.06 1.07
6920	4.9	2.26
6921	4.91	3.31
6908	4.96	2.33
7909 7917	4.94 5.32	2.63
7917 7916	5.32 5.32	2.72 2.75
7915	5.31	2.8
7910	n/a	2.98
7914	5.41	2.87
7901 7911	4.94 5.13	1.5 3.41
7911 7918	5.13 5.14	2.67
791B	n/a	n/a
791D	n/a	n/a
791E	n/a	n/a
791A	n/a 6.73	n/a 3 3 4
6706 6709	6.73 6.72	3.34 4.49
6701	6.66	4.03
6704	6.04	4.24
67LF	n/a	n/a
6705	6.28	1.58
67KL	n/a	n/a

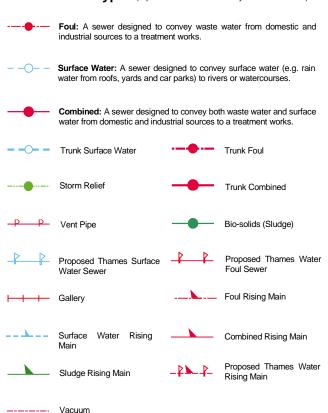
Manhole Reference	Manhole Cover Level	Manhole Invert Level
67LD	n/a	n/a
6808	5.94	4.75
68LJ 6809	n/a 5.95	n/a 3.03
68JM	n/a	n/a
68LL 68MD	n/a n/a	n/a n/a
4803	4.95	n/a
4903	5.08	.89
5904 58MK	5.33 n/a	3.55 n/a
5802	5.72	1.31
58KL 58MJ	n/a n/a	n/a n/a
5001	n/a	-4.57
5803 5905	n/a 5.22	1.33 3.4
5906	5.39	2.77
581B	n/a	n/a
58LK 5805	n/a 6.02	n/a 4.45
5804	6.28	1.37
5907 5808	5.9 6.27	4.45 5.43
5902	5.15	1.11
6001	n/a	-4.49
681C 681A	n/a n/a	n/a n/a
6910	5.11	2.32
6901 6911	5.06 5.27	1.13 3.76
6906	5.27 5.67	3.23
6916	5.48	1.67
6902 4714	4.82 5.95	1.21 3.74
4718	n/a	n/a
4713 4715	5.79 5.75	1.65
4715 4711	5.75 6.05	2.45 2.52
4712	n/a	n/a
5720 5714	5.69 6.03	3.64 3.92
5719	5.67	n/a
5703 5716	6.02	3.46
5716 5704	6 6.83	4.03 3.79
581A	n/a	n/a
5717 5806	6.88 6.21	4.38 4.15
5712	6.26	5.22
5710 5713	6.2 6.04	1.5 4.5
5713 5706	6.04	3.81
38LL	n/a	n/a
38ML 4804	n/a 5.05	n/a 2.06
38LK	n/a	n/a
38MK 39NE	n/a n/a	n/a n/a
4908	4.97	n/a
39MJ	n/a	n/a
39ND 39NK	n/a n/a	n/a n/a
39NC	n/a	n/a
39NJ 3902	n/a 4.98	n/a 3.64
4905	5.03	2.59
3908	n/a	n/a
4904 3904	5.02 5.14	.89 2.68
391A	n/a	n/a
3905 3901	5.19 5.2	2.25 1.62
4907	4.94	2.32
3906	5.17	2.03
4902 4906	4.86 4.96	1.96 n/a
4901	4.93	2.36
3907 3903	5.99 6	1.99 1.53
3701	6.15	3.48
4707 4708	n/a n/a	n/a n/a
4708 4716	n/a	n/a n/a
3702	6.16	4.58
4717 4706	n/a 6.33	n/a 4.22
371A	n/a	n/a
371D	n/a n/a	n/a
371C 381D	n/a n/a	n/a n/a
381C	n/a	n/a
381B	n/a	n/a

Manhole Reference	Manhole Cover Level	Manhole Invert Level
381A	n/a	n/a
38NL	n/a	n/a
38NH	n/a	n/a
38NM	n/a	n/a
4802	5.35	.8
38NJ	n/a	n/a
4801	5.22	1.38
3803	4.87	3.65
38LM	n/a	n/a
38MM	n/a	n/a
271E	n/a	n/a
371B	n/a	n/a
3804	4.67	4.08
3801	n/a	n/a
2809	5.07	n/a
2805	5.19	2.78
2806	5.3	3.26
2801	5.32	.44
2804	5.33	1.95
3802	5.33	3.22
3003	6.06	2.01
3005	5.56	1.22
3008	n/a	n/a
3007	6.65	1.7
3006	6.59	1.59
3004	4.81	1.77
3103	6.12	1.37
3102	5.77	1.35
4102B	n/a	-4.73
4101	3.47	1.08
3101	4.14	.92
3104	n/a	-4.82
2101	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.

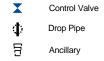


Meter

Vent Column

Operational Controls

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



Weir

End Items

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



▲ / ▲ Public/Private Pumping Station

Other Symbols

Change of characteristic indicator (C.O.C.I.)

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

✓ Summit

Areas

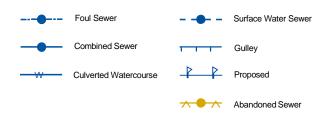
Lines denoting areas of underground surveys, etc.



Tunnel

Conduit Bridge

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



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.
- 4) Most private pipes are not shown on our plans, as in the past, this information has not been recorded.
- 5) 'na' or '0' on a manhole level indicates that data is unavailable.

6) The text appearing alongside a sewer line indicates the internal diameter of the pipe in 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. www.hoarelea.com