BURO HAPPOLD

Wrexham AFC Kop Stand

Utilities Statement- Additional Capacity Application

WRX-BHE-KOP-ZZZ-RP-CI-000003

0065004

22 July 2025

Revision P02

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P01	Draft for team review	NH/EJ/OM	18/07/2025	JRP
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Glossary

Term	Definition
AC	Asbestos cement – pipe material for potable water main
HAUC	Highways Authorities and Utilities Committee
HPPE	High pressure polyethylene – pipe material for potable water main
HV	High voltage (electricity) above 11,000 volts
IP	Intermediate pressure gas mains operating between 2 bar and 7 bar
LP	Low pressure gas mains operating approximately between 30 mbar – 75 mbar
LV	Low voltage (electricity) up to 1,000 volts
MP	Medium pressure gas mains operating between 75mbar – 2 bar
CA	Cadent- incumbent gas utility
NRSWA	New Roads and Street Works Act (1991)
Ofcom	The Office of Communications – regulator and competition authority for the UK communications industry
Ofgem	The Office of Gas and Electricity Markets - regulator and competition authority for the UK gas and electricity markets
Ofwat	The Water Services Regulation Authority - regulator and competition authority for the privatised water and sewerage industry in England and Wales
UU	United Utilities – incumbent potable water provider
SPEN	Scottish Power Energy Networks- incumbent electricity utility
HCA	Homes and Communities Agency
EA	Environment Agency
FRA	Flood Risk Assessment
OR	Openreach
Virgin Media	VM

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1 Introduction

This utilities report introduces the proposed design strategy for new and existing utilities connections for the new Kop Stand at WAFC, to support the planning application submission and confirm that the proposed new infrastructure is satisfactory to serve the proposed stadium scheme.

This report to aim to describe the following:

- Establish the basis of design
- Identify the existing infrastructure and new infrastructure requirements
- Confirm the status of utility applications
- Confirm the main incoming plant locations

1.1 Purpose of the Document

This report has been produced to support an additional planning application for the Wrexham A.F.C Kop Development. The permitted development provides for the addition of a new standing terrace with capacity for up to 5,500 spectators, including a viewing platform for disabled supporters, raising the overall capacity of the stadium to approximately 15,500 for league games. It will also include provision for new hospitality space for both match and non-match days, club offices, community space and a club store. This technical note supports an application for additional measures to increase the capacity of the new Kop Stand capacity for up to 7,750 spectators. This report outlines the basis of the proposed design and correspondence with utility providers to date, including developments since the issue of a Utilities Statement alongside the Permitted Planning Application in 2023 (*RUK2021N00485-RAM-RP-00008_Utilities Assessment, Ramboll UK Limited)*.

The report assesses existing electricity, telecommunications and potable water utility networks to understand required network modifications and assess capacity. The report will also identify the anticipated utility peak demands arising from the proposed development.

No new gas supply is proposed to the new Kop Stand, hence this is not considered in this document. As confirmed in the original Utilities statement, there is no existing Wales & West Utilities gas supplies on the Site.

Refer to the drainage strategy document WRX-BHE-KOP-ZZ-RP-CI-000002 for details of existing and proposed drainage.

1.2 Utility Strategy

An assessment has been carried out, in the form of a load profiling exercise, to understand the load requirement of the application Site for the existing utility infrastructure networks. Load profiling provides an estimate of the maximum peak daily utility demand (and provides a worst case) for electricity, fixed telecommunications, potable water services and drainage.

Utility stakeholders have been consulted in order to assess the impact of the demands on existing networks and the design of required system alterations to facilitate the development are ongoing.

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Utility services providers will be supplying their services from existing networks outside the Site's demise and the utility companies will provide distributed services into the Site to serve the new Kop Stand.

1.3 Planning Context

There is a large amount of legislation, regulatory guidance and codes of practice that exists in connection to the utility industry that will be adhered to. The following section summarises the appropriate references.

1.3.1 Legislation, Regulatory Guidance and Codes of Practice

Each of the utility service providers are governed by the respective Act for their service and their market regulated by the appropriate services regulation authority, as detailed below:

Table 1—1 Related Utility Acts and Regulators

Utility	Act	Regulator
Electricity	Electricity Act 1989	Ofgem
Gas	Gas Act 1986 (as amended)	Ofgem
Telecommunications	Communications Act 2003	Ofcom
Potable Water	Water Act 2003	Ofwat
Foul Water Drainage	Water Industry Act 1991	Ofwat

- The New Roads and Street Works Act (NRSWA) 1991 and The Traffic Management Act 2004 will govern any utility modifications or new installations required in the public highway.
- Any diversionary works required will be made based on The Street Works (Recovery of Costs) Regulations whereby the utility will recover Allowable Costs for the necessary work.
- Guidance for the utilities industry is provided by HAUC (Highway Authorities and Utilities Committee) which brings highway authorities; utilities and government together with the aim to improve working practice to reduce the impact of works on members of the public in the UK.
    - The Department for Transport and HAUC provide a number of Code of Practice Documents to assist in the planning of utility works, including:
    - Specification for the Reinstatement of Openings in Highways (Code of Practice), 2010
    - Code of Practice for the Co-ordination of Street Works and Works for Road Purposes and Related Matters, 2009
    - Practical Guide to Street Works, 2006.
- In terms of health and safety, the most relevant regulations/guidance to the application site includes;
    - Construction Design and Management Regulations 2015
    - HS (G) 47 'Avoiding Danger from Underground Services'
    - CIRIA TN95 'Proprietary Trench Support Systems'
    - CIRIA R97 'Trenching Practice'

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2 Project Utility Supply Requirements

The following indicates the incoming utility services requirements for the mechanical services:

2.1 Mains Water Supply

- Peak flow rate Requirement: 3.13l/s
- Required Minimum Pressure: 1.5bar

2.1.1 Basis of design

Water load profiling estimates the peak water demand for the application site, and this hence determines the infrastructure required. The load profiling exercise is based on baseline figures from industry guidance and Buro Happold Engineering experience from similar development proposals.

The Kop Stand has been assessed to date based on a capacity of 7,500 spectators, and the cold-water demand is based on an estimated daily usage of 3 litres per person.

To estimate the peak flow rate for the incoming mains cold water supply, we applied a peak factor method. This approach is commonly used in early-stage design when fixture-level data is not yet available. It is based on converting average daily demand into an estimated maximum instantaneous flow rate using a diversity or peak factor.

- Daily demand: 22,500 litres/day
- Seconds in a day: 86,400
- Peak factor: 12 (used to represent a worst-case scenario for stadium-type buildings, where water usage is highly concentrated during short periods such as halftime)

2.1.2 Existing Infrastructure

Hafren Dyfrdwy/Severn Dee Ltd. is the distribution network company for the Wrexham area. An existing water main serves the STōK Cae Ras, entering the Site in the corner between the Macron Stand and the Kop Stand, from Mold Road, via The Turf car park. The pipe passing through the car park is not recorded on the public records, indicating that this is a private supply pipe.

2.1.2.1 Removals

There are no known mains water supply pipes that need removing or diverting to facilitate the development.

2.1.3 Status of Utility Application

A preliminary application has been made for the proposed scheme's incoming water supply based on the following:

Table 2—1 Peak Water Demand for Application Site

Item	Information
Peak Flow Rate	3.13 l/s
Existing Incoming Mains Water Pressure	1.5 bar

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Incoming Pipe Size & material	50 mm MDPE equivalent (Internal diameter)
Metering Details	Pulse meter to BEMS.
Booster Required	Yes, downstream of water storage tank
Utility Contact details:	Hafren Dyfrdwy (HD Cymru) Packsaddle Bridge Wrexham Road Rhostyllen Wrexham, LL14 4DS Phone: 0330 678 0679 Website: www.hdcymru.co.uk
Quotation reference:	

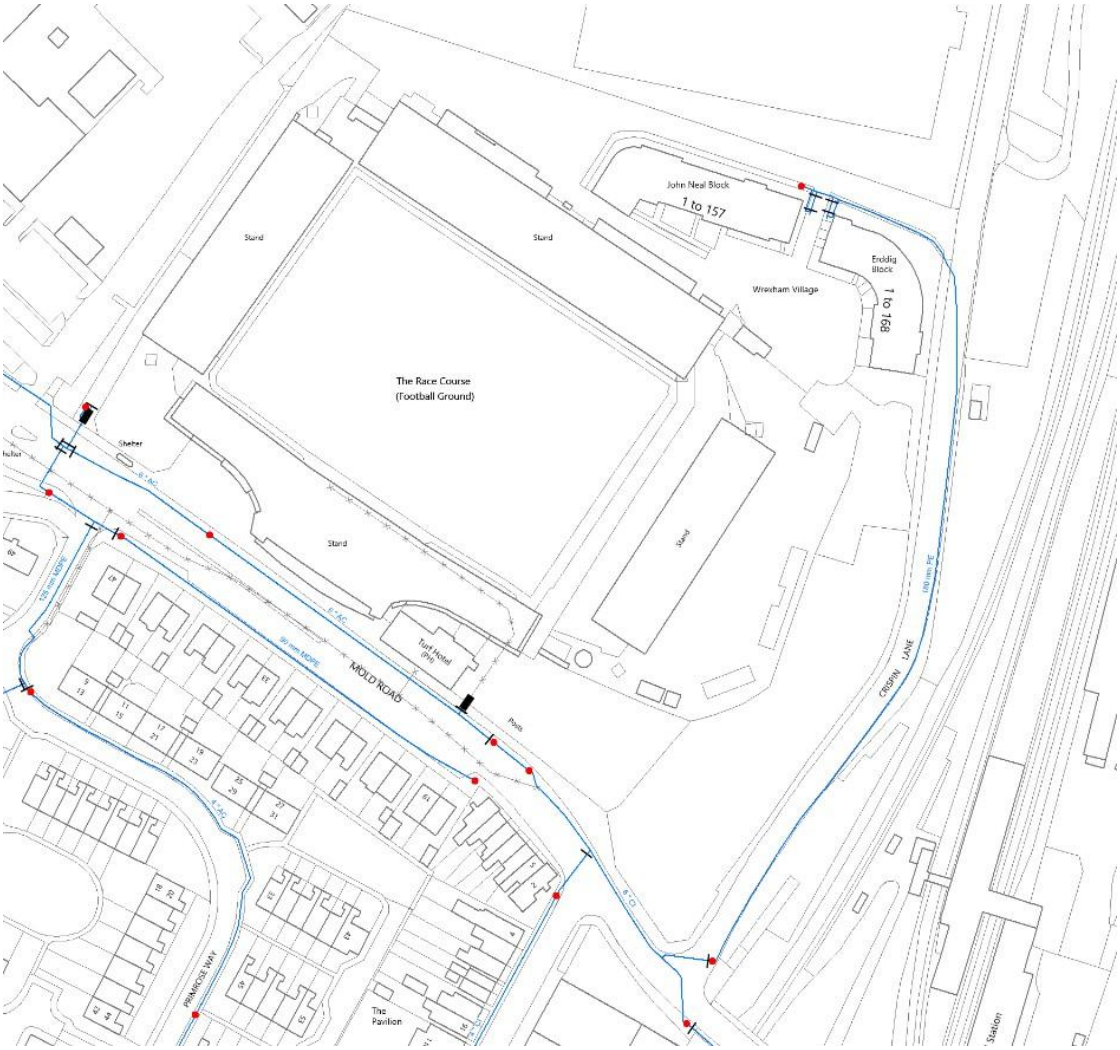


Figure 2—1 Existing Hafren Dyfrdwy/Severn Dee supplies adjacent to the Site.

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3 Electrical Supply

- Total Connected Diversified Load: 1.2 MVA (Estimated load)
- Estimated Max Connected Load: 1.2 MVA (Connected Load)
- No of incomers: 1
- Size and Type of incoming cables: (to be advised by utility company)

3.1 Basis of design

The supply and distribution strategy has to be capable of supporting the new Kop development. We have utilised the plans and area schedule for the fixed planning scheme to inform our load estimates. Where applicable, loads were established from previous experience of stadia projects and recent survey reports of the existing conditions, post occupancy evaluation and from BSRIA & CIBSE Best Practice guides.

The specialist technology loads have been based upon Buro Happold post occupancy evaluation of various stadia in order to determine typical performance and general electrical loads.

3.2 Existing Infrastructure

SPEN Scottish Power Energy Networks is the distribution network operator (DNO) for the Wrexham area. An existing sub-station is present on the southern side of the Site, which provides a LV supply to the nearby student accommodation (marked as GSS-SJ3250 on the figure below; note that this substation was installed as part of the permitted application P/2022/0725 for the Site). A GPR survey has been undertaken and has identified the existing electrical services that run across the Site to the sub-station and from there to the student accommodation.

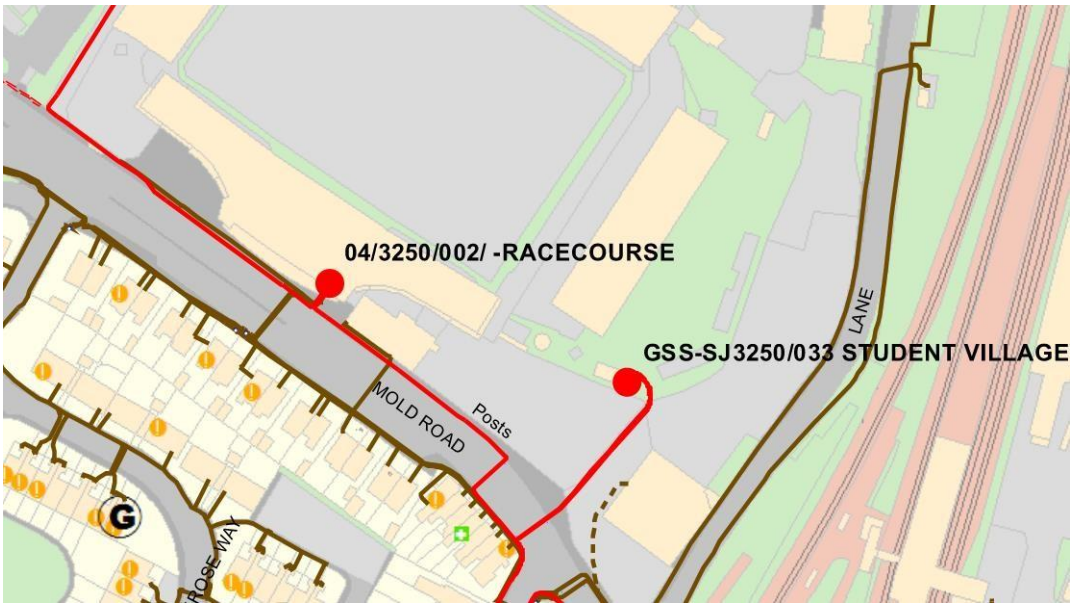


Figure 3—1 Existing SPEN HV Supplies

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A new sub-station is currently being constructed on University land to provide a new LV supply to the student accommodation and Plas Coch campus (as permitted under application P/2023/0291). This will allow the existing sub-station on the Kop Site to be decommissioned and removed.

Within the Macron Stand of the Stok Cae Ras stadium (identified as 04/3250/002 on the figure above), and existing HV/LV substation provides power to the stadium, owned and operated by Scottish Power Energy Networks (SPEN), and containing a 1000kVA HV/LV transformer. Load monitoring was carried out during late 2024 / early 2025 on both match days and non-match days to measure the peak electrical demand in both conditions in order to identify the amount of spare capacity available within the existing Macron Stand substation. The load monitoring indicated a matchday maximum existing demand of circa 537kVA, including circa 125kVA of load associated with the temporary Kop Stand and Fan Zone which have been removed to facilitate the new Kop Stand development. This therefore equates to approx. 588kVA spare capacity in the Macron Stand substation.

Based upon initial load calculations, this is insufficient to serve the Kop Stand. SPEN have advised that they would not accept the installation of two independent electrical supplies to the same site due to concerns over electrical safety. As such, in order to provide sufficient capacity to serve the Kop Stand a new HV supply shall be provided by SPEN, terminated within the ground floor HV Intake room within the Kop Stand, with the existing Macron Stand substation to be isolated and removed. This supply shall be used to serve a client owned HV/LV transformer housed in an adjacent transformer room, which shall in turn serve the Kop Stand and stadium.

3.3 Removals

The existing sub-station within the Site and associated HV/LV cabling is to be removed from site once the Plas Coch campus substation works are complete.

Additionally the existing substation in the Macron stand would be isolated and removed once the new sub-station is operational included within the Kop Stand proposals is complete.

3.4 Status of Utility Application

A preliminary application has been made for the stadium's incoming supply based on the following:

Table 3—1 Status of electrical utility application

Item	Information
Incoming electrical supply 1	MV DNO 11kV network
Metering Details	Metered at 11kv Pulse meter
G99 Connection	TBC
Utility Contact details:	**Brett Monk & Stephen Bell** **SP Energy Networks** Lister Drive Tuebrook Liverpool L13 7HJ 01416149947

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4 Telecommunications

4.1 Basis of design

The Kop Stand will have a dedicated entry point for telecommunications on the northern side of the Site. We propose banks of 2 ducts for a BT Openreach supply entering the Site from Crispin Lane, where existing BT Openreach supplies are present. The telecommunications services to the Site should provide for:

- Connectivity for local authorities (e.g. CCTV monitoring)
- Connectivity for the client (wide area network, internet, telephony)
- Connectivity for public internet
- Connectivity for mobile operator(s)
- Connectivity for broadcasters

4.2 Existing Infrastructure

A desktop utilities search highlights that the following fixed telecommunications infrastructure operators are present within the vicinity, as shown below.

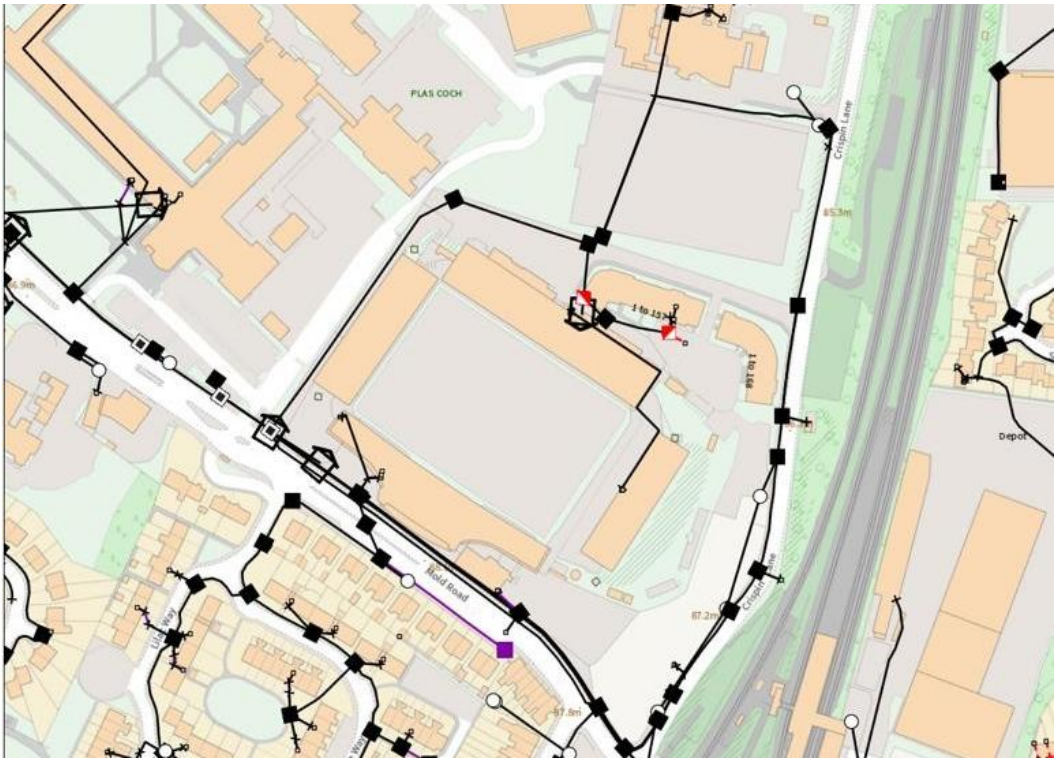


Figure 4—1 BT Openreach Services adjacent to the Site.

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Currently at the Site it is understood there are two existing BT/Openreach fibre connections. One is a 1GB/s line entering into the Macron (Red) stand adjacent to Mold Road. The other is a 10GB/s line entering into the Wrexham Lager (Green) stand adjacent to Wrexham University's student village.

It is proposed that a new 10GB/s line is installed following the new duct path from Crispin Lane to the North Side of the new Kop Stand. The existing 1GB/s line entering into the Macron (red) stand should be upgraded to a 10GB/s line and the existing 10GB/s line into the Wrexham Lager (green) stand should be unleased.

4.3 Removals

An existing Openreach cable is shown to connect from the Wrexham Lager Stand to the old Kop Stand on the records information. This above-ground cable is understood to have been removed as part of the demolition of the old Kop Stand.

4.4 Status of Utility Application

Application to be submitted.

Table 4—1 Status of communications utility application

Item	Information
Incoming telecommunications supply (indicatively proposed)	10GB/s into Incoming Service Provider Room (ISR) located on the northern edge of the Kop Stand.
Metering Details	N/A
Utility Contact details:	**BT Group PLC** 1 Braham Street London E1 8EE 020 7356 5000 https://www.developers.openreach.co.uk/developerportal
Quotation reference:	To be submitted

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Appendix A – Utility Search

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SUBSITE SURVEYS

Wrexham AFC

Racecourse Ground, Mold Road, Wrexham.

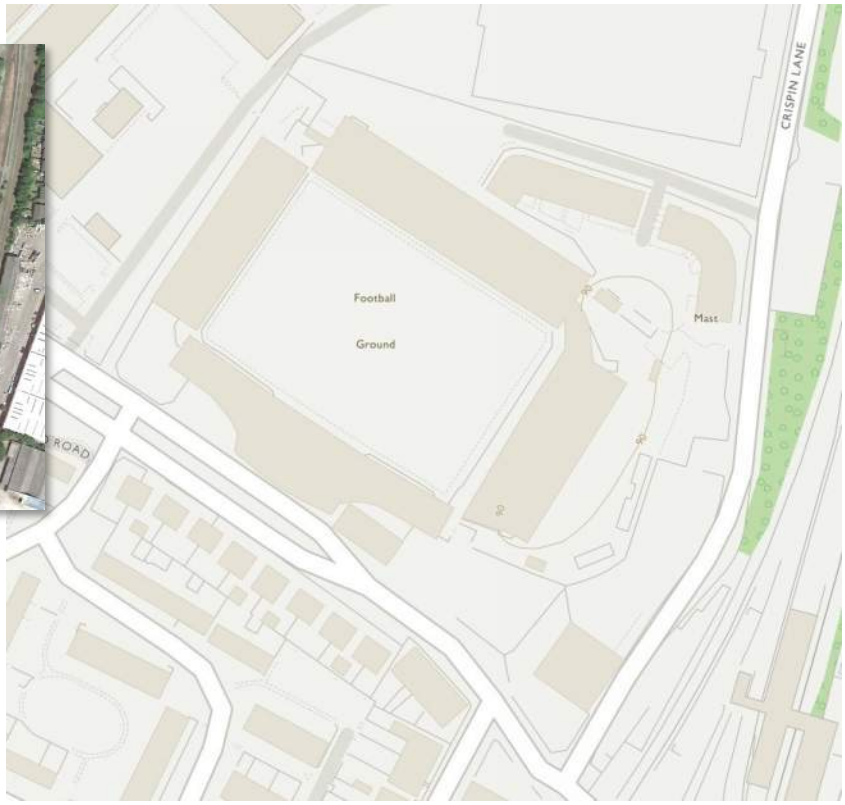
Date: September 2021





Site Location





Grid Reference

SJ 32830 50981

Grid Reference (6 figure)

SJ328509

X (Easting):	Y (Northing):
332830	**350981**
Latitude:	Longitude:
53.051849	**-3.0035216**

Address Near:

Wrexham AFC
Racecourse Ground, Mold Road, Wrexham.

Postcode (nearest):

LL11 2JB

Enclosures

Utility Type	Company	In-house Search	In Vicinity of Development	Not In Vicinity of Development	No Response Received to Date
Water Mains	Welsh Water		21/09/2021		
Drainage	Welsh Water		21/09/2021		
Gas	WWU / (ESP near)		21/09/2021	ESP	
Openreach (BT)	BT	x	21/09/2021		
CATV	Virgin	x	21/09/2021		
Electric	SSE		21/09/2021		
Communication	Colt			21/09/2021	
	sky			21/09/2021	
	Instalcom			21/09/2021	
	Tata			21/09/2021	
	Zayo Europe			21/09/2021	
	Cityfibre			21/09/2021	
	SSE			21/09/2021	
	EU networks			21/09/2021	
	Verizon			21/09/2021	
	SSE			21/09/2021	
	CityFibre			21/09/2021	
	Gtt			21/09/2021	
	gtc			21/09/2021	
Environment Agency				21/09/2021	
Council				21/09/2021	
Tunnels & Pipelines	BT Deep Level Tunnels			21/09/2021	
	Thames Water Ring Main			21/09/2021	
	Post Office Tunnels			21/09/2021	
	Cemex (Cement Tunnel)			21/09/2021	
	BOC			21/09/2021	
	Post Office			21/09/2021	
	Jetline MJL			21/09/2021	
Transport	Canal & River Trust			21/09/2021	
	Network Rail			21/09/2021	
	Crossrail			21/09/2021	
	London Underground / LUHV			21/09/2021	
	Docklands Light Railway			21/09/2021	
	Private Rail Lines			21/09/2021	
	Trams			21/09/2021	
	Traffic Master			21/09/2021	

NOT AFFECTED

	AWE Pipeline Esso Petroleum Company Limited Perenco UK Limited (Purbeck Southampton Pipeline) BOC Limited Fulcrum Pipelines Limited Petroineos BP Midstream Pipelines Phillips 66 Gateshead Energy Company Premier Transmission Ltd (SNIP) Carrington Gas Pipeline Gigaclear PLC Prysmian Cables & Systems Ltd (c/o Western Link)	CATS Pipeline c/o Wood Group PSN Humbly Grove Energy Redundant Pipelines - LPDA Cemex IGas Energy RWEnpower (Little Barford and South Haven) Centrica Energy Ineos Enterprises Limited SABIC UK Petrochemicals Centrica Storage Ltd DIO (MOD Abandoned Pipelines)

Abbreviations

Apparatus	
Electric:	
DNO	Distribution Network Operator
iDNO	Independent Distribution Network Operator
ICP	Independent Connections Provider
LV	Low Voltage
HV	High Voltage
EHV	Extra High Voltage
kVA	Kilovolt Amperes
MVA	Megavolt Amperes
AC	Alternating Current
S/S	Substation
PMT	Pole Mounted Transformer
Gas:	
GT	Gas Transporter
iGT	Independent Gas Transporter
UIP	Utility Infrastructure Provider
PRS	Pressure Reducing Station (Governor)
LP	Low Pressure
MP	Medium Pressure
IP	Intermediate Pressure
HP	High Pressure
Water	
SLO	Self Lay Organization
Incumbent	Local Water only or Water & Sewerage Company
WRAS	Water Regulation Advisory Scheme
Other	
PE	Polyethylene
DI	Ductile Iron
ST	Steel
CI	Cast Iron
SI	Spun Iron
HPPE	High Performance Polyethylene
MDPE	Medium Density Polyethylene
CATV	Cable Television
GRP	Glass Reinforced Plastic
FTTP	Fibre to the premise
FTTC	Fibre to the cabinet
l/min	Litres per minute
H&S	Health and Safety
HBF	House Builders Federation
TPO	Tree Preservation Order

Enclosure Table Key

Desk Research
A cross in this column indicates that the response has been determined In-house.

In Vicinity
Utility plant is expected to be within, adjacent to or very close to the search area. It's recommended to liaise with the utility in advance of any works taking place.

Not In Vicinity
Utility plant is not expected to be within, adjacent to or very close to the search area. It may be located some distance from the search area.

Disclaimer

Relevant Documents

The following documents must be referred to before work commences in the vicinity of existing services:

Health and Safety Booklet HS (GS) 6 Avoidance of Danger from Overhead Electric Lines.
General Safety Measures to Avoid Injury and Damage to Gas Apparatus.
HSE Guidance Note HS (G) 47 Avoiding Danger from Underground Services.
National Joint Utilities Group (NJUG) Publications Vol. 1.
CDM Regulations 2007 (Regulation 34 – Energy Distribution Installations).
Electricity at Work Regulations 1989.

Basic Risk Assumption for all Services

When dealing with existing services the following assumptions must always be accepted:
All existing buildings have gas, water electric and telecoms supplies to them until proven otherwise.
Any supply to an existing building, no matter how old the building is or how deteriorated the supply may appear, is taken to be 'live' until proven otherwise. All open land, vacant lots and derelict sites are deemed to have services beneath them until proven otherwise.

The only acceptable proof that a service is 'dead' and can be removed is written confirmation from the owner of the service. The quality and accuracy of information provided by utilities about their existing plant is indicative and no warranty is made as to its accuracy. Therefore, any utility record plans and/or marked up drawings provided by each utility must only be used as a guide and the actual location of plant should be verified by CAT Scan or trial holes before construction works commence.

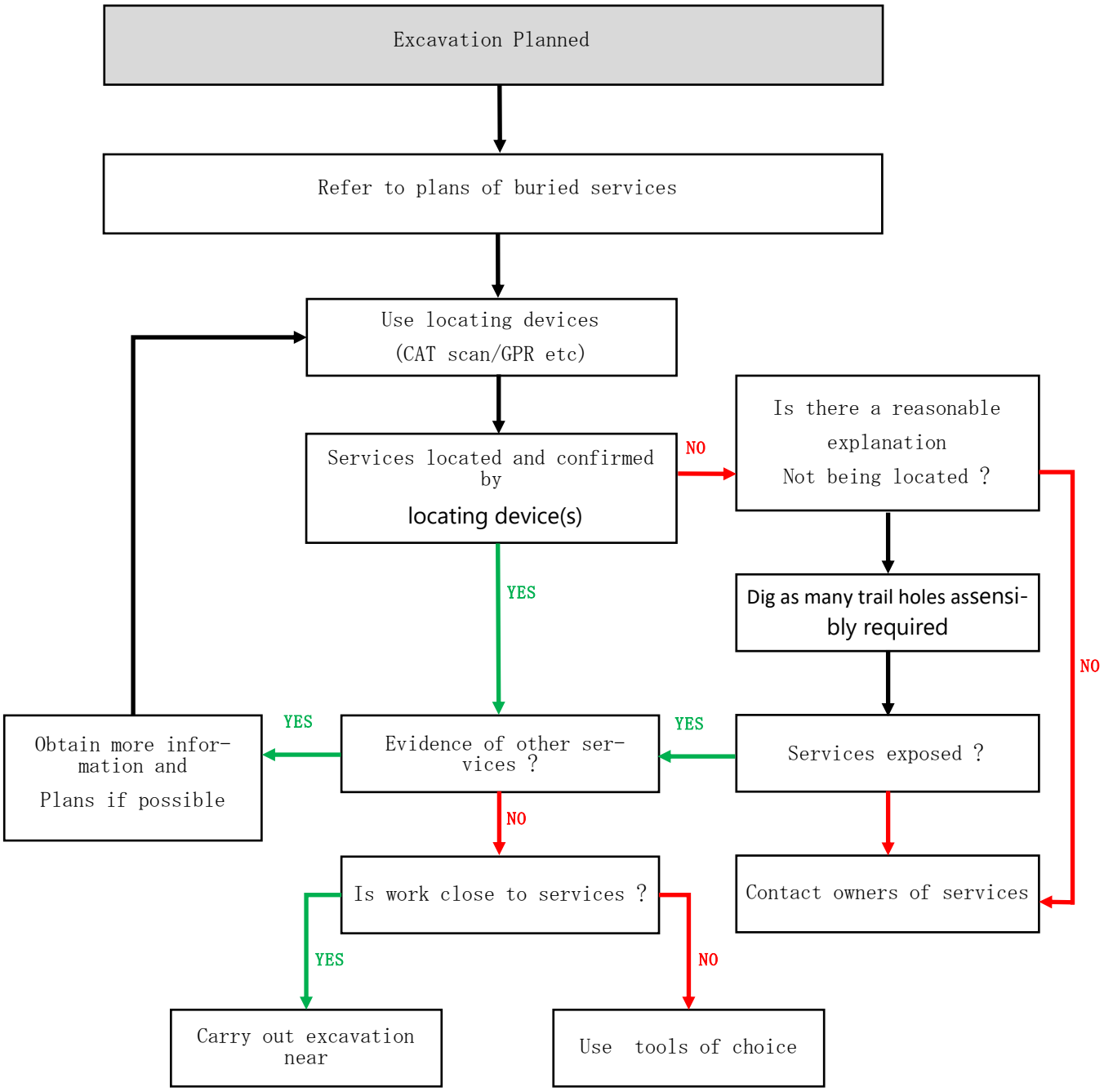
Please note not all service connections are shown on the utility record plans.

Plant Found Within Site Boundaries

Where utility plant is found within the site boundary, it is recommended for the client to check for legal easements or wayleaves.

Diversions of plant within site boundaries can be expensive and time consuming to relocate.
Further investigation of costs and timescales are recommended. Please ask PES for further details.

This flow diagram is intended to help give an understanding of the process from referring to plans on-site through to the start of excavation.



For example, could services be non-metallic pipes? Please refer to HS (G) 47 text for further information.

† In particular; visual evidence. Ensure that the presence of services, which may be unmarked on plans or for which no plans are available, has been considered, for example service connections.

*** If there is visual evidence of services, but owners cannot be traced, despite all reasonable attempts to do so, any excavation could proceed but using hand-dug trial holes and proceeding with great care.*

Guidelines on the Positioning and Colour Coding of Underground Utilities' Apparatus

Recommended Colour Coding of Underground Utilities Apparatus

All depths are from the surface level to the crown of the apparatus.

Utility	Duct	Pipe	Cable	Marker Systems	Recommended Minimum Depths	
					Footway Verge	Carriageway
Electricity HV (High Voltage)	Black or red duct or tile	N/A	Red or black	Yellow with black and red legend or concrete tiles	450mm - 1200mm	750m - 1200mm
Electricity LV (Low Voltage)	Black or red duct or tile	N/A	Black or red	Yellow with black legend		750mm
Gas	Yellow	* See row below	N/A	Black legend on PE pipes every linear metre.	600mm footway 750mm verge	750mm
	*** PE - up to 2 bar - yellow or yellow with brown stripes (removable skin revealing white or black core pipe). - between 2 to 7 bar -orange. Steel pipes may have yellow wrap or black tar coating or no coating. Ductile Iron may have plastic wrapping Asbestos & Pit / Spun Cast Iron – No distinguishable colour					
Water non Potable & Grey Water	N/A	Black with green stripes	N/A	N/A	600mm - 750mm	600mm - 750mm
Water - Firefighting	N/A	Black with red stripes or bands	N/A	N/A	600mm - 750mm	600mm - 750mm
Oil / fuel pipelines	N/A	Black	N/A	Various Surface markers Marker tape or tiles above red concrete	900mm All work within 3 metres of oil fuel pipelines must receive prior approval	900mm All work within 3 metres of oil fuel pipelines must receive prior approval
Sewerage	Black	No distinguishing colour / material (eg: Ductile Iron may be red; PVC may be brown)	N/A	N/A	Variable	Variable
Communications	Grey, white, green, Black, purple	N/A	Black or Light Grey	Various	250mm - 350mm	750mm minimum
Water 	Blue or Grey	Blue polymer or blue or uncoated Iron / GRP. Blue polymer with brown stripe (removable skin revealing white or black pipe)	N/A	Blue or blue/ black	750mm	750mm minimum
Water pipes for special purposes (e.g. contaminated ground) 	N/A	Blue polymer with brown stripes (non removable skin)	N/A	Blue or blue/ black	750mm	750mm minimum

*These guidelines describe utility industry practice. However, it should not be Assumed that all apparatus will conform the recommendations for positioning And colour coding contained in this report.

Recommended Colour Coding of Other Underground Apparatus
All depths are from the surface level to the crown of the apparatus.

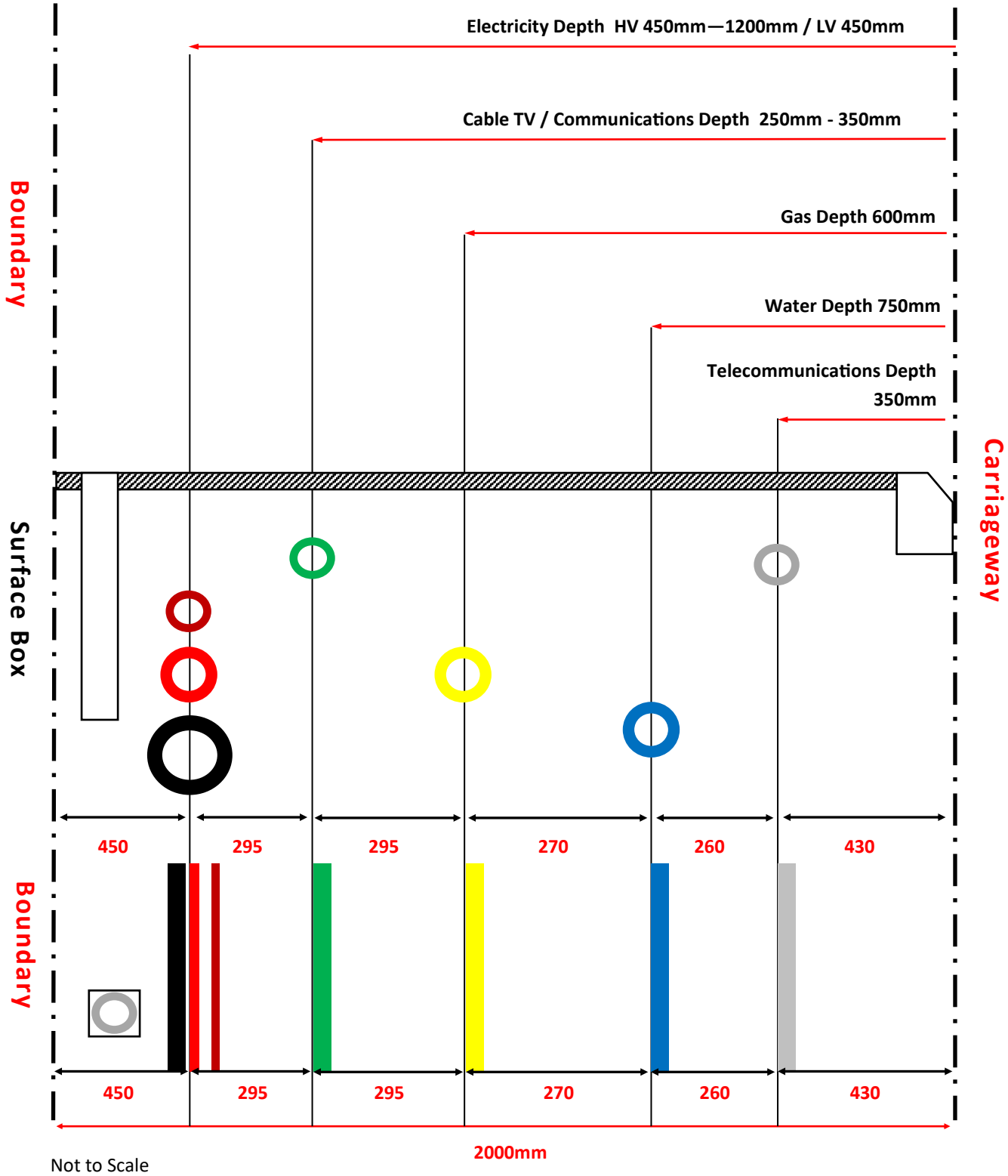
Utility	Duct	Pipe	Cable	Marker Systems	Recommended Minimum Depths	
					Footway Verge	Carriageway
At the time of publication the following were current examples of known highway authority apparatus colour coding but local variations may occur.						
Street Lighting						
England and Wales	Orange	N/A	Black	Yellow with black legend	450mm	600mm
Scotland	Purple	N/A	Purple	Yellow with black legend	450mm	450mm
Northern Ireland	Orange	N/A	Black or orange		450mm	450mm
Other						
Traffic Control	Orange	N/A	Orange	Yellow with black legend		
Street Furniture		N/A	Black	Yellow with black legend	450mm	600mm
Communications		N/A	Light grey or black	Yellow with black legend		
CCTV	Purple	N/A		Yellow with black legend		
Motorways and Trunk Roads England and Wales						
Communications	Purple	N/A	Grey	Yellow with black legend	450mm	
Communications Power	Purple	N/A	Black	Yellow with black legend		
Road Lighting	Orange	N/A	Black	Yellow with black legend		
Scotland						
Communications ○ ●	Black or grey	N/A	Black	Yellow with black legend		
Road Lighting	Purple	N/A	Purple	Yellow with black legend		

*These guidelines describe utility industry practise. However, it should not Be assumed that all apparatus will confirm to the recommendations for Positioning and colour coding contained in this publication.

NJUG Guidelines on the Positioning and Colour Coding of Underground Utilities

Recommended Positioning of Utility Apparatus in a 2 metre Footway (s)

Note - the same positioning should apply in the carriageway service strip (if safe and practical to do so) where a development has footways). available for services and or the boundary of the property in on the carriageway (please refer to minimum depths in carriageways) For further advise please contact the asset owner.



Not to Scale

Other warnings

WARNING
PIPELINE OFFSET BEHIND MARKER

The markers may not always be directly over the pipeline. In which case an additional waring sticker will indicate the direction of off-set.



Studs such as these may be found in footpaths and car parks etc.



Stile warning marker

CAUTION

THIS STRUCTURE IS IN CLOSE PROXIMITY TO A HIGH PRESSURE OIL PIPELINE.
BEFORE COMMENCING ANY EXCAVATION WORK PLEASE CALL

FREEFONE 0800 XXXXXX.

You may find signs such as these on apparatus close to the pipeline.



When the pipeline route has been located it will be marked with location pegs.



Pole warning marker

IMPORTANT

Marker posts only denote the presence of our pipelines. Never presume that the pipeline runs in a straight line between marker posts as there could either be a bend or the posts may have been moved without our knowledge.

DO NOT PRESUME ANYTHING; TELEPHONE OUR AGENTS AND WE WILL SEND SOMEONE TO VERIFY EXACTLY WHERE THE PIPELINE IS SITUATED.



Watch out– there's a pipeline about!

Typical pipeline Markers

LINEWATCH WEBSITE
www.linewatch.co.uk

Revision No **06.1**

Awareness and preparation is the key to safe excavation

Typical pipeline markers



Mainline marker post



Huntsman marker post



BPA marker post



ConocoPhillips marker post



MJL marker post



BP marker post



Esso marker posts



Total marker post



GPSS marker post



Shell marker posts



Beware of posts with brass studs (such as the post above) which have cables connecting to the pipeline below.



New design marker post

Typical pipeline aerial markers



Shell aerial marker



Esso & MLP aerial marker



GPSS aerial marker



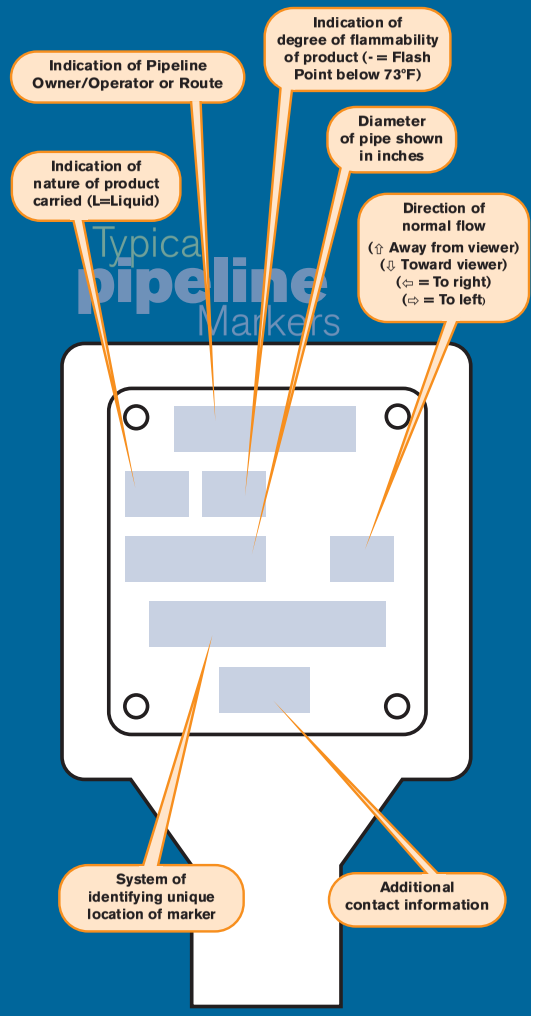
BP aerial marker



Plain orange with white stick

BPA
ConocoPhillips
Total/Huntsman
have similar aerial markers to left

Standard symbols on marker posts



The above information may not appear in the same order as indicated and some items may be omitted

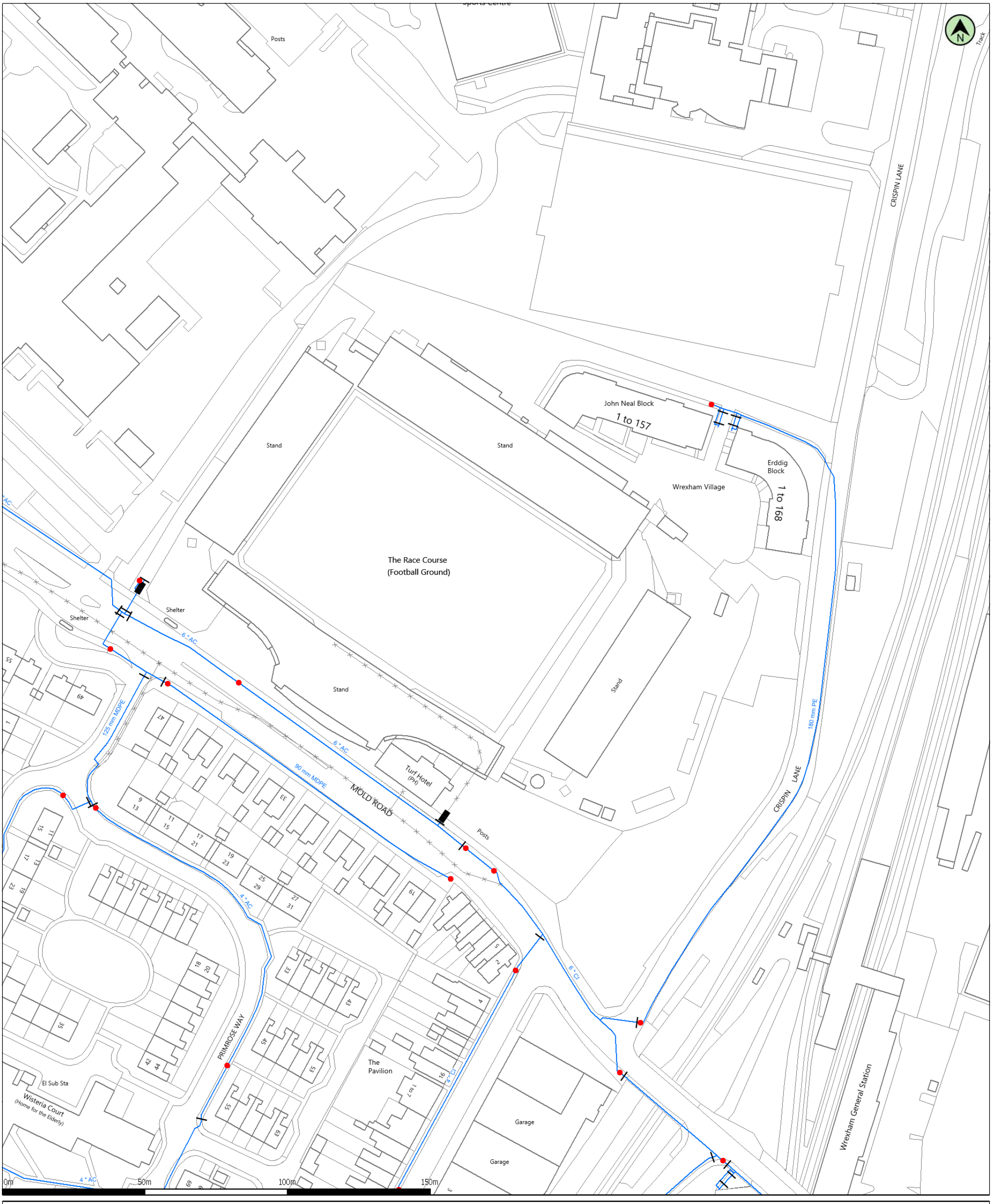
Useful pipeline enquiry sites

www.linewatch.co.uk

for links to individual pipeline websites

www.linesearch.org

Water



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Data updated: 14/08/21	Map Centre: 332836,350979	Our Ref: 651821 - 2	Powered by digdat

Hydrant		Valve		Aqueduct	
Meter		Water Main		Duct	
AirValve		Abandoned Pipe		Service Pipe	

utilitysitesearch@outlook.com

WREXHAM

HAFREN DYFRDWY severn dee

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GENERAL CONDITIONS AND PRECAUTIONS TO BE TAKEN WHEN CARRYING OUT WORK ADJACENT TO SEVERN TRENT WATER'S APPARATUS

Please ensure that a copy of these conditions is passed to your representative and/or your contractor on site. If any damage is caused to Hafren Dyfrdwy (HD) apparatus (defined below), the person, contractor or subcontractor responsible must inform HD immediately on: **0800 085 8033 (24 hours)**

a) These general conditions and precautions apply to the public sewerage, water distribution and cables in ducts including (but not limited to) sewers which are the subject of an Agreement under Section 104 of the Water Industry Act 1991(a legal agreement between a developer and HD, where a developer agrees to build sewers to an agreed standard, which HD will then adopt); mains installed in accordance with an agreement for the self-construction of water mains entered into with HD and the assets described at condition b) of these general conditions and precautions. Such apparatus is referred to as “HD Apparatus” in these general conditions and precautions.

b) Please be aware that due to The Private Sewers Transfer Regulations June 2011, the number of public sewers has increased, but many of these are not shown on the public sewer record. However, some idea of their positions may be obtained from the position of inspection covers and their existence must be anticipated.

c) On request, STW will issue a copy of the plan showing the approximate locations of HD Apparatus although in certain instances a charge will be made. The position of private drains, private sewers and water service pipes to properties are not normally shown but their presence must be anticipated. This plan and the information supplied with it is furnished as a general guide only and HD does not guarantee its accuracy.

d) STW does not update these plans on a regular basis. Therefore the position and depth of HD Apparatus may change and this plan is issued subject to any such change. Before any works are carried out, you should confirm whether any changes to the plan have been made since it was issued.

e) The plan must not be relied upon in the event of excavations or other works in the vicinity of HD Apparatus. It is your responsibility to ascertain the precise location of any HD Apparatus prior to undertaking any development or other works (including but not limited to excavations).

f) No person or company shall be relieved from liability for loss and/or damage caused to HD Apparatus by reason of the actual position and/or depths of HD Apparatus being different from those shown on the plan.

In order to achieve safe working conditions adjacent to any HD Apparatus the following should be observed:

1. All HD Apparatus should be located by hand digging prior to the use of mechanical excavators.

2. All information set out in any plans received from us, or given by our staff at the site of the works, about the position and depth of the mains, is approximate. Every possible precaution should be taken to avoid damage to HD Apparatus. You or your contractor must ensure the safety of HD Apparatus and will be responsible for the cost of repairing any loss and/or damage caused (including without limitation replacement parts).

3. Water mains are normally laid at a depth of 900mm. No records are kept of customer service pipes which are normally laid at a depth of 750mm; but some idea of their positions may be obtained from the position of stop tap covers and their existence must be anticipated.

4. During construction work, where heavy plant will cross the line of HD Apparatus, specific crossing points must be agreed with HD and suitably reinforced where required. These crossing points should be clearly marked and crossing of the line of HD Apparatus at other locations must be prevented.

5. Where it is proposed to carry out piling or boring within 20 metres of any HD Apparatus, HD should be consulted to enable any affected HD Apparatus to be surveyed prior to the works commencing.

6. Where excavation of trenches adjacent to any HD Apparatus affects its support, the HD Apparatus must be supported to the satisfaction of HD. Water mains and some sewers are pressurised and can fail if excavation removes support to thrust blocks to bends and other fittings.

7. Where a trench is excavated crossing or parallel to the line of any HD Apparatus, the backfill should be adequately compacted to prevent any settlement which could subsequently cause damage to the HD Apparatus. In special cases, it may be necessary to provide permanent support to HD Apparatus which has been exposed over a length of the excavation before backfilling and reinstatement is carried out. There should be no concrete backfill in contact with the HD Apparatus.

8. No other apparatus should be laid along the line of HD Apparatus irrespective of clearance. Above ground apparatus must not be located within a minimum of 3 metres either side of the centre line of HD Apparatus for smaller sized pipes and 6 metres either side for larger sized pipes without prior approval. No manhole or chamber shall be built over or around any HD Apparatus.

9. A minimum radial clearance of 300 millimetres should be allowed between any plant or equipment being installed and existing HD Apparatus. We reserve the right to increase this distance where strategic assets are affected.

10. Where any HD Apparatus coated with a special wrapping is damaged, even to a minor extent, HD must be notified and the trench left open until the damage has been inspected and the necessary repairs have been carried out. In the case of any material damage to any HD Apparatus causing leakage, weakening of the mechanical strength of the pipe or corrosion-protection damage, the necessary remedial work will be recharged to you.

11. It may be necessary to adjust the finished level of any surface boxes which may fall within your proposed construction. Please ensure that these are not damaged, buried or otherwise rendered inaccessible as a result of the works and that all stop taps, valves, hydrants, etc. remain accessible and operable. Minor reduction in existing levels may result in conflict with HD Apparatus such as valve spindles or tops of hydrants housed under the surface boxes. Checks should be made during site investigations to ascertain the level of such HD Apparatus in order to determine any necessary alterations in advance of the works.

12. With regard to any proposed resurfacing works, you are required to contact HD on the number given above to arrange a site inspection to establish the condition of any HD Apparatus in the nature of surface boxes or manhole covers and frames affected by the works. HD will then advise on any measures to be taken, in the event of this a proportionate charge will be made.

13. You are advised that HD will not agree to either the erection of posts, directly over or within 1.0 metre of valves and hydrants,

14. No explosives are to be used in the vicinity of any HD Apparatus without prior consultation with HD.

TREE PLANTING RESTRICTIONS

There are many problems with the location of trees adjacent to sewers, water mains and other HD Apparatus and these can lead to the loss of trees and hence amenity to the area which many people may have become used to. It is best if the problem is not created in the first place. Set out below are the recommendations for tree planting in close proximity to public sewers, water mains and other HD Apparatus.

15. Please ensure that, in relation to HD Apparatus, the mature root systems and canopies of any tree planted do not and will not encroach within the recommended distances specified in the notes below.

16. Both Poplar and Willow trees have extensive root systems and should not be planted within 12 metres of a sewer, water main or other HD Apparatus.

17. The following trees and those of similar size, be they deciduous or evergreen, should not be planted within 6 metres of a sewer, water main or other HD Apparatus. E.g. Ash, Beech, Birch, most Conifers, Elm, Horse Chestnut, Lime, Oak, Sycamore, Apple and Pear. Asset Protection Statements Updated May 2014

18. HD personnel require a clear path to conduct surveys etc. No shrubs or bushes should be planted within 2 metre of the centre line of a sewer, water main or other HD Apparatus.

19. In certain circumstances, both HD and landowners may wish to plant shrubs/bushes in close proximity to a sewer, water main of other HD Apparatus for screening purposes. The following are shallow rooting and are suitable for this purpose: Blackthorn, Broom, Cotoneaster, Elder, Hazel, Laurel, Privet, Quickthorn, Snowberry, and most ornamental flowering shrubs.

Drainage

[redacted]

WREXHAM AFC RACECOURCE GROUND MOLD ROAD
WREXHAM LL11 2AH

[redacted]

LEGEND(Representative of most common features)

[redacted]

Notes:

Whilst every reasonable effort has been taken to correctly record the pipe material of DCWW assets, there is a possibility that in some cases pipe material (other than Asbestos Cement or Pitch Fibre) may be found to be asbestos cement (AC) or Pitch Fibre (PF) . It is therefore advisable that the possible presence of AC or PF pipes be anticipated and considered as part of any risk assessment prior to excavation

Dŵr Cymru Cyfyngedig ('the Company') gives this information as to the position of its underground apparatus by way of general guidance only and on the strict understanding that it is based on the best information available and no warranty as to its correctness is relied upon in the event of excavations or other works made in the vicinity of the company's apparatus. The onus of locating apparatus before carrying out any excavations rests entirely on you. The information which is supplied by the Company, is done so in accordance with statutory requirements of sections 198 and 199 of the Water Industry Act 1991 which is based upon the best information available and, in particular, but without prejudice to the generality of the foregoing, it should be noted that the records that are available to the Company may not disclose the existence of a water main, service pipe, sewer, lateral drain or disposal main and any associated apparatus laid before 1 September 1989, or, if they do, the particulars thereof including their position underground may not be accurate. It must be understood that the furnishing of this information is entirely without prejudice to the provision of the New Roads and Street Works Act 1991 and the Company's right to be compensated for any damage to its apparatus.

Service pipes are not generally shown but their presence should be anticipated.

EXACT LOCATIONS OF ALL APPARATUS TO BE DETERMINED ON SITE.

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Map Ref:	332818,350987
Map scale:	1:1250
Printed by:	Zara Howells
Printed on:	24 Sep 2021

Gas

Company Address
Wales and West Utilities Ltd,
Wales and West House,
Spooner Close, Celtic,
Springs, Coedkernew,
Newport, NP10 8FZ

Our Ref: 23301736 Wrexham AFC

Friday, 17 September 2021

Paul Hodgson
Towpath Cottage Top Lane Braithwaite
Doncaster
South Yorkshire
DN7 5SX

Dear Paul Hodgson

Thank you for contacting us regarding Wales & West Utilities equipment at the above site.

I enclose an extract from our mains records of the area covered by your proposals together with a comprehensive list of General Conditions for your guidance. This information is given as a general guide and its accuracy cannot be guaranteed. Service pipes, valves, syphons, stub connections, etc., are not shown but their presence should be anticipated.

No liability of any kind whatsoever is accepted by Wales and West Utilities (WWU), its agents or servants for any error or omission. Please note that all WWU equipment on site should be assumed to be LIVE until proven otherwise.

Safe digging practices, in accordance with HS(G)47, Avoiding Danger from underground services must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. Safe working procedures should be defined and practiced.

WWU reserves its position completely to enforce the terms of any existing easement against the landowner, even if this results in any planning permission granted not being able to be fully implemented.

You must not build over any of our plant or enclose our apparatus.

Wales & West Utilities have no planning objections to these proposals, although it should be noted that Wales & West's apparatus is held pursuant to easements and it has other private law rights in relation to the use of the land in the vicinity of its apparatus. Wales & West's private law land rights are not material planning considerations and therefore no comment is made in relation to those rights and they have no impact on whether or not planning permission should be granted, or whether, if permission is granted, it can lawfully be implemented. It should also be noted that Wales & West's apparatus may be at risk during construction works and should the planning application be approved, then we require the promoter of these works to contact us directly to discuss our requirements in detail. Should diversion works be required these will be fully chargeable.

Where diversions to WWU apparatus are needed to allow change to occur on site, the cost of these alterations may be charged to the persons responsible for the works.

If you have requested a new connection the WWU connections team will where necessary prepare detailed proposals and provide a quotation for any necessary alterations and/or development of our equipment on the site.

If you require advice in connection with your proposals please contact the relevant number below.

Yours sincerely,

Safety Document: http://www.wwutilities.co.uk/services/dial-before-you-dig/can-you-dig-it/

Company Address
Wales and West Utilities Ltd,
Wales and West House,
Spooner Close, Celtic,
Springs, Coedkernew,
Newport, NP10 8FZ

WWU Dig Team

Gas Emergency Number:
In an emergency call 0800 111 999, 24 hours a day.

Mapping Enquiries:
If you have an enquiry relating to this letter or the attached map plan, please contact us using the following information:

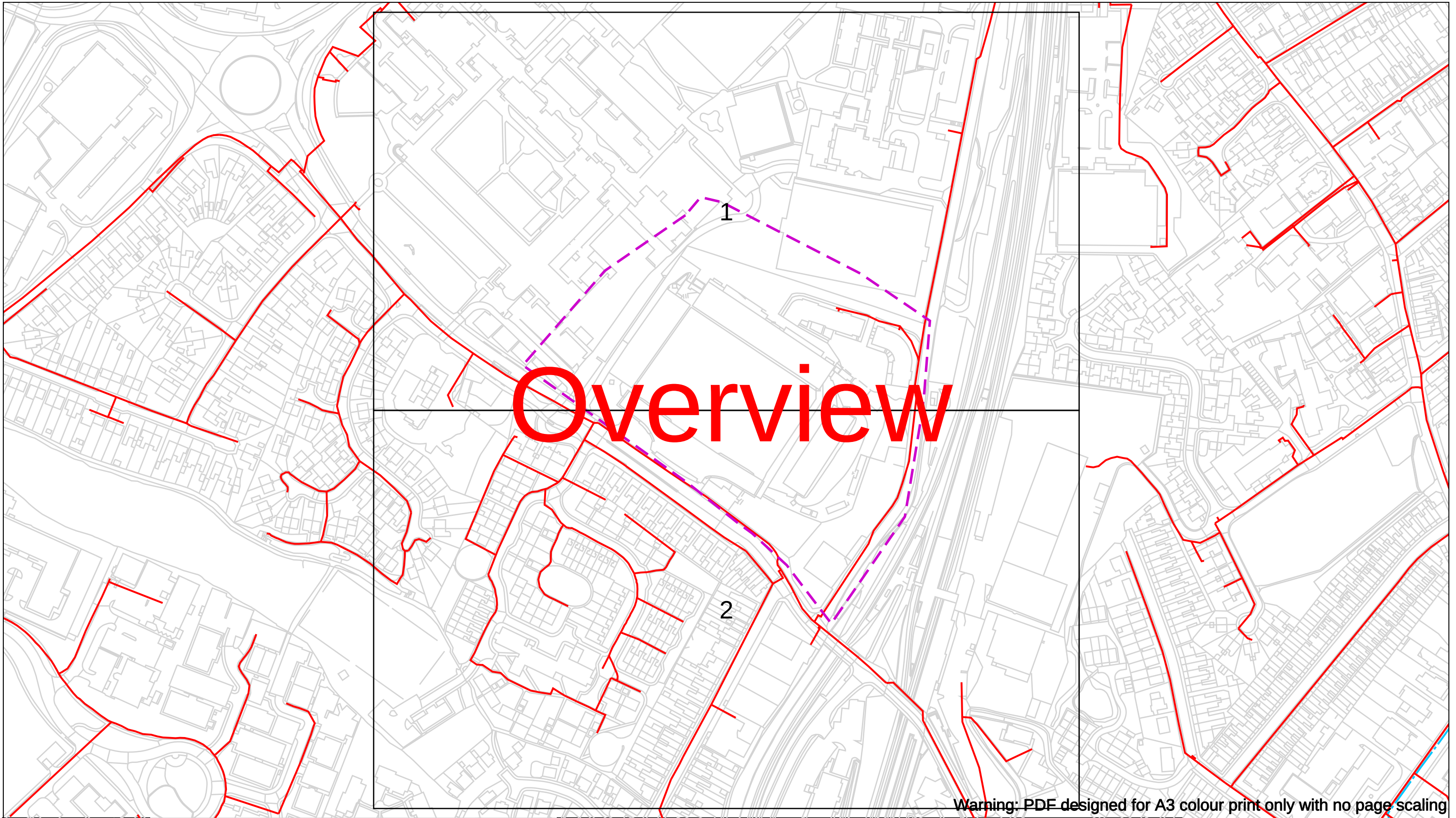
Telephone	02920 278912
Email	dig@wwutilities.co.uk

General Enquiries:
If you have a general enquiry, please call us on the following number

All areas	0800 912 29 99

LinesearchbeforeUdig:
If you have an enquiry relating to the use of the LinesearchbeforeUdig website please contact LinesearchbeforeUdig using the following information:

Telephone	0845 437 7365
Email	enquiries@linesearchbeforeudig.co.uk
Website	www.linesearchbeforeudig.co.uk



Warning: PDF designed for A3 colour print only with no page scaling

Contact Us
Mapping Enquiries: 02920 278 912
General Enquiries: 0800 912 2999

Date Requested: 17/09/2021
Job Reference: 23301736
Site Location: 332826 350985
Requested by:
Mr Paul Hodgson
Your Scheme/Reference:
Wrexham AFC

Scale: 1:2562 (When plotted at A3)

IMPORTANT NOTICES

- This information is given as a guide only and its accuracy cannot be guaranteed
- The plan only shows those pipes owned by Wales & West Utilities (WWU) as its role as a licensed Gas Transporter
- Service pipes, valves, syphons, stub connections etc. may not be shown but their presence should be anticipated
- You must use safe digging practices in accordance with HS(G)47 to establish the actual position of mains, services and other apparatus before any mechanical excavation is used
- It is your responsibility to ensure this information is provided to all persons working near our plant
- If in doubt call the WWU dig team on 02920 278912

In case of an emergency call 0800 111 999

Dig Sites

Area: Line:

Low Pressure (LP) 21mbar – 75mbar

Medium Pressure (MP) 350mbar – 2bar

Intermediate Pressure (IP) 2bar – 7bar

High Pressure (HP) >7bar

Line/Fire Valve

Governor Station

Change of Diameter

End Cap

Depth of cover

WALES&WEST UTILITIES

Smell gas?
Call the Gas Emergency Service on 0800 111 999.

Dial before you dig

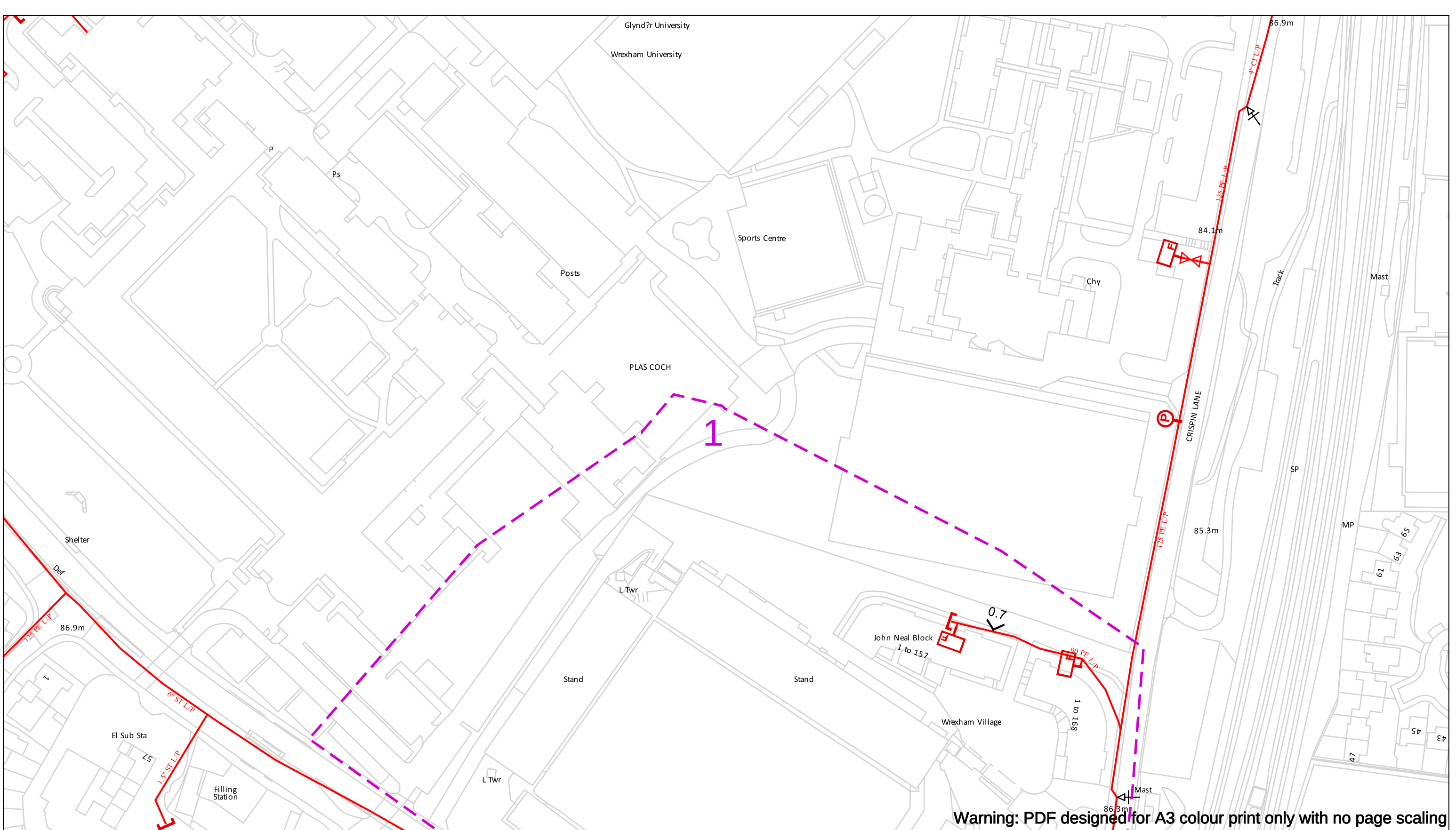
Dial
Call 029 2027 8912 before you start work.

Investigate
Before you dig, make sure you know what's below.

Go ahead
Done your research? Now you can dig safely.

We need 10 days' notice

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Contact Us
Mapping Enquiries: 02920 278 912
General Enquiries: 0800 912 2999

Date Requested: 17/09/2021
Job Reference: 23301736
Site Location: 332826 350985
Requested by:
Mr Paul Hodgson
Your Scheme/Reference: Wrexham AFC

Scale: 1:1250 (When plotted at A3)

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- If in doubt call the WWU dig team on 02920 278912

In case of an emergency call 0800 111 999

100m

Dig Sites

Area: Line:

Low Pressure (LP) 21mbar – 75mbar
Medium Pressure (MP) 350mbar – 2bar
Intermediate Pressure (IP) 2bar – 7bar
High Pressure (HP) >7bar

Line/Fire Valve
Governor Station
Change of Diameter
End Cap
Depth of cover

WALES&WEST UTILITIES

Smell gas?
Call the Gas Emergency Service on 0800 111 999.

Dial before you dig

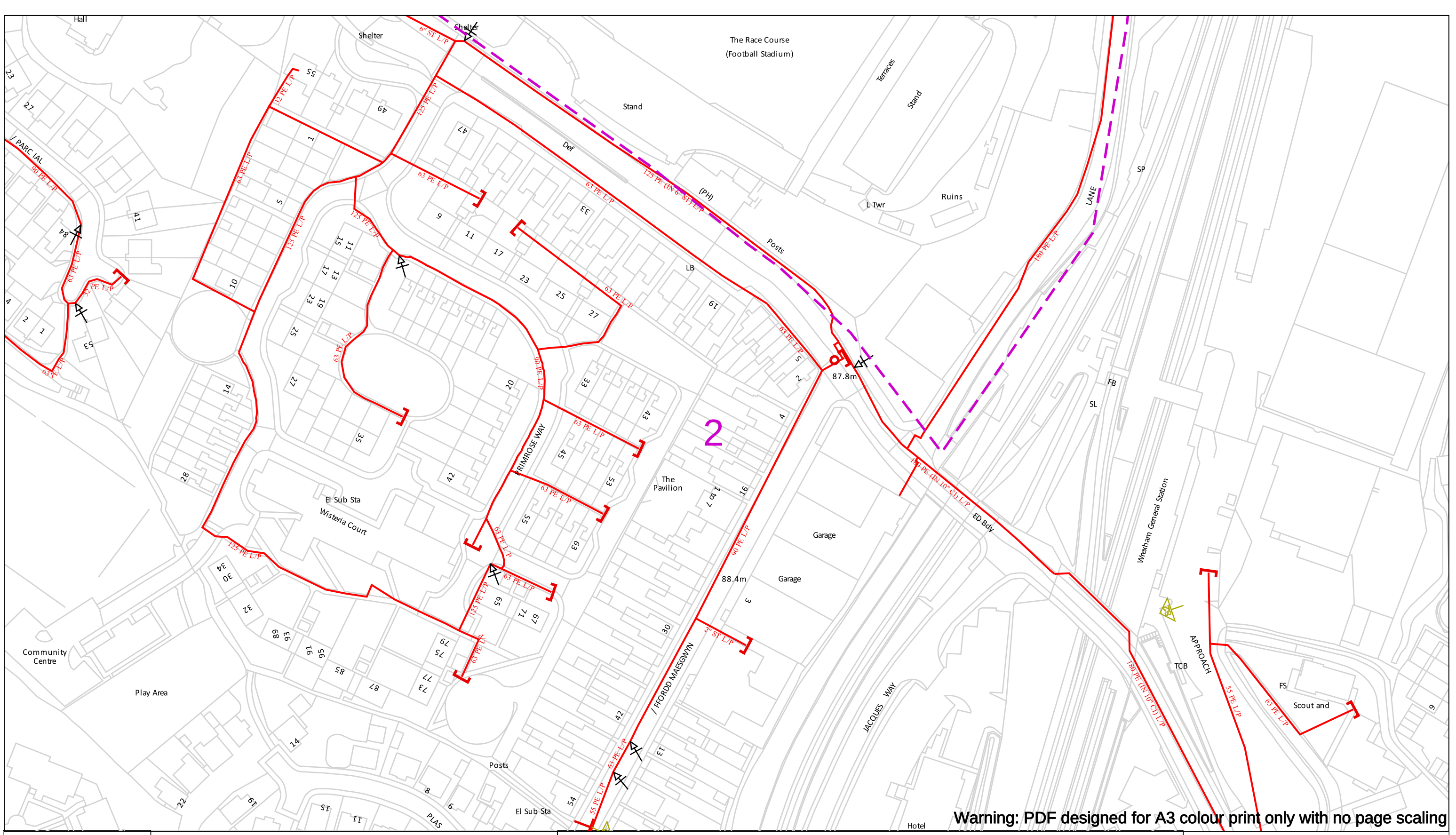
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100m

Dig Sites

Area: Line:

- Low Pressure (LP) 21mbar – 75mbar
- Medium Pressure (MP) 350mbar – 2bar
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- High Pressure (HP) >7bar

- Line/Fire Valve
- Governor Station
- Change of Diameter
- End Cap
- Depth of cover

WALES&WEST UTILITIES

Smell gas? Call the Gas Emergency Service on 0800 111 999.

Dial before you dig

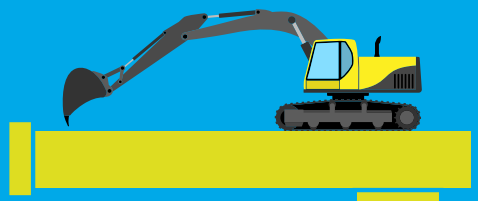
Dial Call 029 2027 8912 before you start work.

Investigate Before you dig, make sure you know what's below.

Go ahead Done your research? Now you can dig safely.

We need 10 days' notice

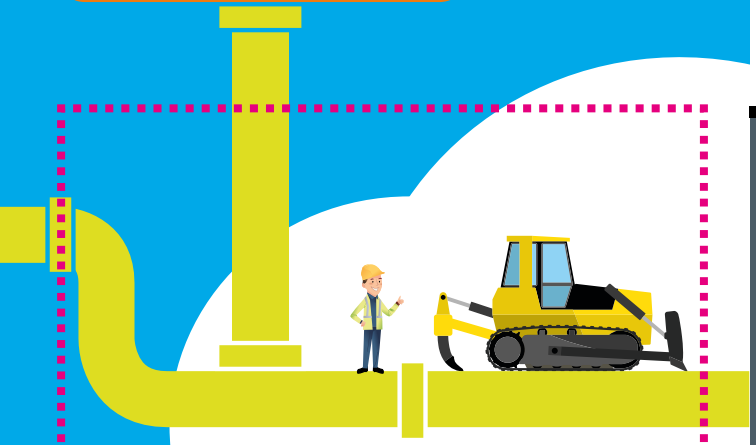
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Every day, underground gas pipes get damaged by people digging without knowing what's below. This can be catastrophic. It might cause serious injury to you and others around you. The costs of repair, fines and fees can be huge. Your project will be delayed and your reputation damaged.

We have designed this leaflet to help you dig safely. And the first thing to do – long before you start work – is call us.

What's the number?
029 2027 8912



CARD POSITION (DO NOT PRINT)

We're here to help

Need help or advice?
Call our **Plant Protection team** on
029 2027 8912
or email **dig@wwutilities.co.uk**

Smell gas?
Call the **Gas Emergency Service** on
0800 111 999.

Dial before you dig

We need **10 days'** notice



dig@wwutilities.co.uk
029 2027 8912
www.wwutilities.co.uk
facebook.com/wwutilities
@WWUtilities

Crystal Mark 21918
Clarity approved by Plain English Campaign

Dial
Investigate
Go ahead

YOUR GAS EMERGENCY AND PIPELINE SERVICE

WALES&WEST UTILITIES

Can you DIG it?

We bring the gas to homes and businesses across Wales and the south west of England. We invest money, time and effort every year to make sure our pipelines are protected – but the biggest danger to our network is you.



D is for Dial

Digging can be dangerous. Hit a gas pipe and you might cause a gas leak, a fire or explosion.

So phone us first on **029 2027 8912** or email **dig@wwutilities.co.uk**

- You can find out where our pipes are.
- You need to give us 10 working days' notice before you start working.



I is for Investigate

It's the only way to stay safe

- Before you start work, you must get a copy of our up-to-date gas plans and General Conditions and keep them with you on site.
- Use our online mapping service to find the mains pipes under your land.
- Working near a medium-, or intermediate- or high-pressure gas pipe? You might need a site visit – call us so we can arrange it.
- Plan ahead – we need at least 10 days' notice for a site visit.
- You'll also need our publication 'SSW22 Safe working in the vicinity of high-pressure pipelines and associated installations'.
- Remember, you can't work on a Wales & West Utilities wayleave or easement (land which we have rights over to maintain our gas network) without written permission.
- And you can't work near or move heavy equipment over any gas pipeline until all our conditions have been met and we agree your method of working.
- Watch the video on our website to find out more.

G is for Go ahead

- Make sure you have our up-to-date gas plans on site.
- Need extra advice? Call our Plant Protection team on **029 2027 8912** or email **dig@wwutilities.co.uk**
- Use cable- and pipe-locating devices.
- Use safe digging practices, taking every precaution to avoid damaging gas pipes, damaging yourself and damaging your bank balance. You will be billed for any costs if something goes wrong.
- If in doubt, phone us again. We're happy to help.

We need **10 days'** notice





Smell gas?

Our Gas Emergency Service is on call 24 hours a day, seven days a week, 365 days a year.

If you cause a gas leak, or think the network might be leaking, call the Gas Emergency Service immediately on **0800 111 999**.

- Get everyone away from the leak.
- Ask everyone in nearby buildings to leave until we're sure it's safe.
- Put out all naked flames and other sources of ignition and make sure no one smokes within 15 metres of the leak.
- Don't try to fix the leak by filling the hole, as gas may enter buildings.
- Don't try to operate any valves.
- Don't let anyone go near the leak.
- Help our engineers, the police or fire services if they ask.

COMMERCIAL UNIT
LOAD: 280KVA 3-PH
400AMP CUT-OUT
400AMP FUSES
CT METERING 400:5

DANGER
HIGH VOLTAGE CABLES
PRESENT EXPOSE ALL
CABLES BEFORE
JOINTING

3c-300mm² W/F

3c-300mm² W/F

DNO/IDNO INTERFACE SUBSTATION
24/7 DUAL UNRESTRICTED ACCESS

- RN2c-T1/16 11kV RINGMAIN UNIT, Tx MOUNTED (SP)
- 11kV/433V 500kVA TRANSFORMER (ESP)
- 1600A 5-WAY LV FUSE CABINET, Tx MOUNTED (ESP)
- SEE DRG NO. 7419-SLD-01 FOR ADOPTION BOUNDARIES
- EARTHING TO SPECIFICATION SP EART-02-003 AND DRG NO. M.E.1
- SUB CONSTRUCTION TO SCOTTISH POWER DRG NO: SP2103445

4x 3c-300mm² W/F B.E

3x 150mm DUCTS (RED)

2x TRIFURCATING
STRAIGHT JOINTS

2x 3c-185mm², Al, XLPE 11kV

HV POC
2x HV STRAIGHT JOINTS
3c-185mm², Al, XLPE 11kV TO EXISTING
3c-0.1ins, HV MAIN
GRID REF: 332825,350630

EXISTING 3c-0.1ins, HV MAIN

Wats dyke

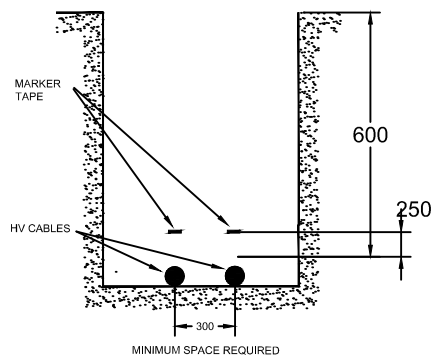
RAILWAY LINE

REDUNDANT PLATFORM / RETAINING WALL

82 No

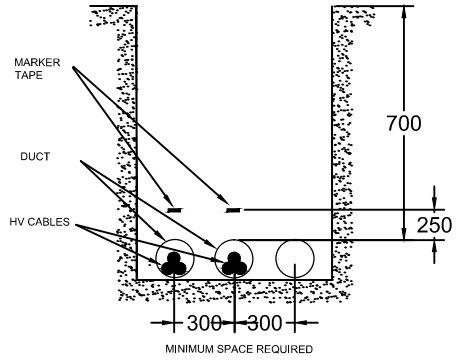
86.05

VIEW A
HV IN UNMADE GROUND, FOOTWAYS & FOOTPATHS



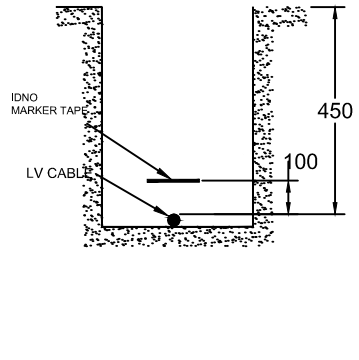
NTS

VIEW B
HV IN ROAD



NTS

VIEW C
LV IN FOOTPATH/VERGE



NTS

WARNING
ALL EXCAVATION SHOULD BE DONE BY TAKING THE APPROPRIATE SAFETY PRECAUTIONS IN THE "HEALTH & SAFETY EXECUTIVE GUIDE Note47" (HSEg47)
"AVOIDING DANGER FROM UNDERGROUND SERVICES"
TAKING COGNIZANCE OF THE FACT THAT OTHER PLANT MAY BE IN THE VICINITY WHICH IS NOT SHOWN ON THE PLANS.

A	FOR APPROVAL	23/05/13	PA
REV	REVISION NOTES	DATE	ENG.

DRAWING KEY

SOLID LINE - EXISTING COLOUR DEFINES VOLTAGE		
DASHED LINE - PROPOSED COLOUR DEFINES VOLTAGE		
PROPOSED 11kV MAIN CABLING.	RED	
PROPOSED 6.6kV MAINS CABLING.	BLUE	
PROPOSED LV MAINS CABLING.	BROWN	
PROPOSED LV SERVICE CABLING.	BROWN	
PROPOSED CABLE DUCT.		
PROPOSED EARTHING CABLE.		
PROPOSED EARTHING ROD (S) .		
B.J./ S.J. / B.E. (JOINT		
PHASE ALLOCATION.		L1 L2 L3
METER POSITIONS.		M

NOTE: UNLESS OTHERWISE STATED; ALL SINGLE PHASE DOMESTIC SERVICES TO BE 2c.35.SAC.PC AND ALL DOMESTIC ELECTRICITY METERS TO BE INSTALLED IN EXTERNAL METER BOXES. CONTRACTOR TO INSTALL CABLE MARKER TAPE.

SERVICE ROUTES

ALL SERVICE ROUTES ARE INDICATIVE ONLY AND MUST BE CONFIRMED ON SITE BY THE INSTALLATION CONTRACTORS REPRESENTATIVE. IT IS THE RESPONSIBILITY OF THE CUSTOMER TO ENSURE THAT ALL SERVICE ROUTES ARE WITHIN THE DEMISE OF THE PROPERTY BEING SUPPLIED AND THE EXACT LOCATION OF DUCTS ARE CLEARLY IDENTIFIED.

Planning Drawing Only

Obtain up-to-date utility records from asset owner before commencing work.

The details supplied on this drawing are intended to be used for information only and are not representative of any binding or contractual agreement between R & D Network Design and any other parties involved. The positions of existing mains is given for guidance only and, as such, no liability can be accepted by R & D Network Design Ltd for any damage caused to, nor any injury sustained, as a result of interference with such apparatus. Before any onsite works commence an up to date copy of the relevant utilities records must be obtained.

R & D Network Design Ltd.
Blue Pit Mill
Queensway
Rochdale
OL11 2YW

Client	CROWN	Client Ref	CU1357
Site Address	Premier Inn, Mold Road, Wrexham		
Title	Site Plan with Cable Routes		
Drawn By	PA	Date	23/05/2013
Checked By	DK	Date	23/05/2013
Approved By	SD	Date	23/05/2013
Scale	1:500 @ A3		
Revision	A		
Drawing No	7419/SP/01		

PRECAUTIONS TO BE TAKEN WHEN CARRYING OUT WORK IN THE VICINITY OF ELECTRICITY CABLES

ADVICE TO SITE PERSONNEL

MANAGEMENT NOTE

Please ensure that a copy of this note is read by your site management and to your site operatives.

Early consultation with ESP Utilities Group prior to excavation is recommended to obtain the location of plant and precautions to be taken when working nearby.

This Guidance Note should be read in conjunction with the Health and Safety Executive guidance HSG47 "Avoiding danger from underground services".

1.0 Introduction

This procedure should be read in conjunction with the ESP Electricity Distribution Safety Rules and other relevant procedures.
The object of this procedure is:

a) To lay down the rules for the location of cable before work is started.

b) To specify the safe working procedure to be adopted by persons who have to work on or in the vicinity of cables.

2.0 Reference

ESP Electricity G81 – Design and Planning
ESP Electricity G81 – Installation and Records
National Joint Utilities Group (NJUG) Guidance Notes
Avoiding danger from underground services HSG47 HSE Advice Booklet.

3.0 Work

3.1 All cables and apparatus to which the cables are connected shall be treated as being live, until they have been proved dead and all points of isolation have been establish and controlled.

3.2 All work carried out under this procedure shall also be carried out in strict accordance with the ESP Electricity Distribution Safety Rules and other relevant procedures.

3.3 For the purpose of this procedure:

a) Work on a cable includes the intentional cutting or removal of its Sheath or Armour, cutting of its core(s) or conductor(s) and the removal of a spiking gun.

b) Work in the vicinity of a cable includes digging or any activity carried out at any work location where cables are or may be present, whether or not for the specific purpose of preparation for work on a cable.

4.0 Cable Locating Devices

4.1 An approved cable locating device is to be used on every occasion before any surface is removed or any digging is started. It must also be used during the course of any digging work.

4.2 Cable location devices provide information on the position of cables. They must not be used as the only means of cable location.

4.3 Cable locating devices must be regularly checked for correct operation.

All persons using cable locating devices must be adequately trained in their use and must be Competent Persons.

5.0 Location of Cables

5.1 The depth of underground cables varies greatly. It is essential that a site specific risk assessment is undertaken for the proposed work you are planning this must include obtaining an up-to-date map of the electricity cables in the area and to make use of it. The electricity cable records must be checked before any work is started. Changes in surface level or reference points, and work carried out by other people may affect the reliability of these records. Anybody excavating must be told of these possibilities.

5.2 Before the start of any excavation work, a cable locating device shall be used to establish the run of live cables. Reasonable steps should be taken to establish the runs of cables both along and across the length of the intended area of digging. The cable avoidance tool shall be used together with mains records and where provided, service records.

5.3 All cable runs either confirmed by use of the cable locating device or indicated on the mains records must be marked out on the surface using a waterproof marker. Marked cable runs must be extended 300mm beyond either end or side of the intended digging area, and must stay visible while the digging is going on. The trial hole dig method can be used to identify the run of cables using hand dig tools only.

6.0 Precautions to be Taken while Working in Vicinity of Cables

6.1 Work in the vicinity of cables must be carried out as if the cables are live and all excavation work must be personally supervised by a Competent Person. All persons shall wear a minimum of safety footwear, Safety Glasses, hard hat, Task Specific Gloves flame retardant overalls.

6.2 Approved hand tools should always be used in preference to power tools in the vicinity of cables, unless site conditions make this impracticable. Spades should always be used in preference to forks. Extreme care must always be taken when using a fork or pick. Forks must be of approved type with shortened chisel ended tines. Spades must have sharp corners of the blade rounded. The selection of a fork or pick will be assessed on a Task Specific Risk Assessment.

6.3 A proprietary air digging tool, which removes oil with a high-velocity jet of air, can be used to expose buried services without damage to the service. However, it will not penetrate asphalt, concrete or frozen ground. Also precautions need to be taken that will prevent injury to the operator and members of the public from ejected soil and other materials.

6.4 When site conditions require the use of hand held power tools they must be fitted with a short bit. The following method of work must be used:

a) Using all the information provided, together with an approved cable locating device, the line of all know cables must be marked out at least 300mm past the hole that will be dug using waterproof marker.

b) Encroachment lines must be drawn 300mm parallel to and away from the outer and innermost cable marker lines. And as in (a) above these must be drawn to extend at least 300mm beyond the edge of the hole that will be dug.

c) Hand held power tools must not be used below ground level in between the encroachment lines. Hand tools must be used for progressive and careful undermining from outside the encroachment lines towards the cable(s). Hand power tools must only be used to break up any hard surface, keeping pace with, but not going past the undermining. Extreme care must, in particular, be exercised when using power tools above cables already exposed by undermining. The use of power tools must stop if at any time the cutting rate quickens, indicating softer ground. At all times, attention must be paid to the cable run marker lines outside the edges of the holes.

d) The safe digging procedure in (c) above must be followed until all cable(s) required for work or for identification have been located.

e) If all recorded or detected cables inside the digging area have been located then hand held power tools may be used below ground level to break up concrete or similar structures, but even then only when site conditions render the use of hand tools impractical.

6.5 During excavation, full use must be made of cable locating devices which must be used to assist in establishing the exact location of live cables.

6.6 Where exposed cables are likely to be damaged in any way they shall be adequately protected and/or supported. Where in the opinion of the person in charge on site it is appropriate, warning notices must be attached to cables e.g. ‘live cable exposed above ground level’ or ‘live coiled cables’.

6.7 Irrespective of the color of the electricity cable it shall be considered as being in a ‘live’ status unless it has been confirmed and proven that the cable has been physically isolated or turned off.

If damage is caused or suspected the following action should be taken at once:

- Remove all personnel from the immediate vicinity
- Contact ESP Electricity 01372 587500 or out of hours Emergency contact Number 0800 731 6945
- Prevent any approach by the public.
- Assist electricity personnel, Police or Fire Service as requested.

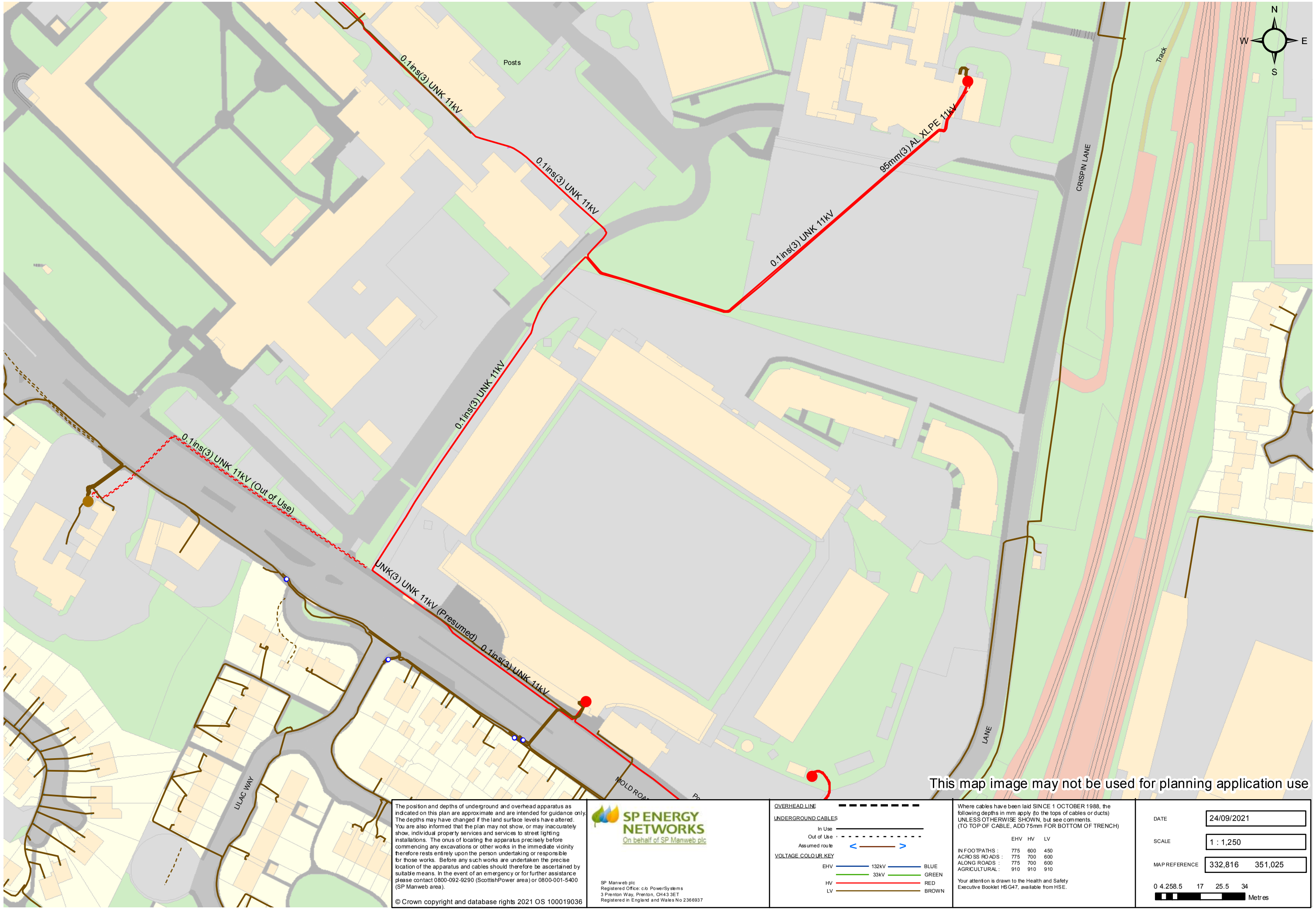
REMEMBER – IF IN DOUBT; SEEK ADVICE FROM ESP Utilities Group.

ESP Utilities Group can be contacted at:

Office Address: Bluebird House, Mole Business Park, Leatherhead, Surrey, KT22 7BA

Office Tel: 01372 587 500**; Fax:** 01372 377996

Electric



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SP ENERGY NETWORKS
On behalf of SP Manweb plc

SP Manweb plc
Registered Office: c/o PowerSystems
3 Prenton Way, Prenton, CH43 3ET
Registered in England and Wales No 2366937

OVERHEAD LINE

UNDERGROUND CABLES

In Use

Out of Use

Assumed route

VOLTAGE COLOUR KEY

EHV	132kV	BLUE
	33kV	GREEN
HV		RED
LV		BROWN

Where cables have been laid SINCE 1 OCTOBER 1988, the following depths in mm apply (to the tops of cables or ducts) UNLESS OTHERWISE SHOWN, but see comments. (TO TOP OF CABLE, ADD 75mm FOR BOTTOM OF TRENCH)

	EHV	HV	LV
IN FOOTPATHS :	775	600	450
ACROSS ROADS :	775	700	600
ALONG ROADS :	775	700	600
AGRICULTURAL :	910	910	910

Your attention is drawn to the Health and Safety Executive Booklet HSG47, available from HSE.

DATE	24/09/2021
SCALE	1 : 1,250
MAP REFERENCE	332,816 351,025

0 4.258.5 17 25.5 34 Metres



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OVERHEAD LINE

UNDERGROUND CABLES
In Use
Out of Use
Assumed route

VOLTAGE COLOUR KEY

EHV	132kV	BLUE
	33kV	GREEN
HV		RED
LV		BROWN

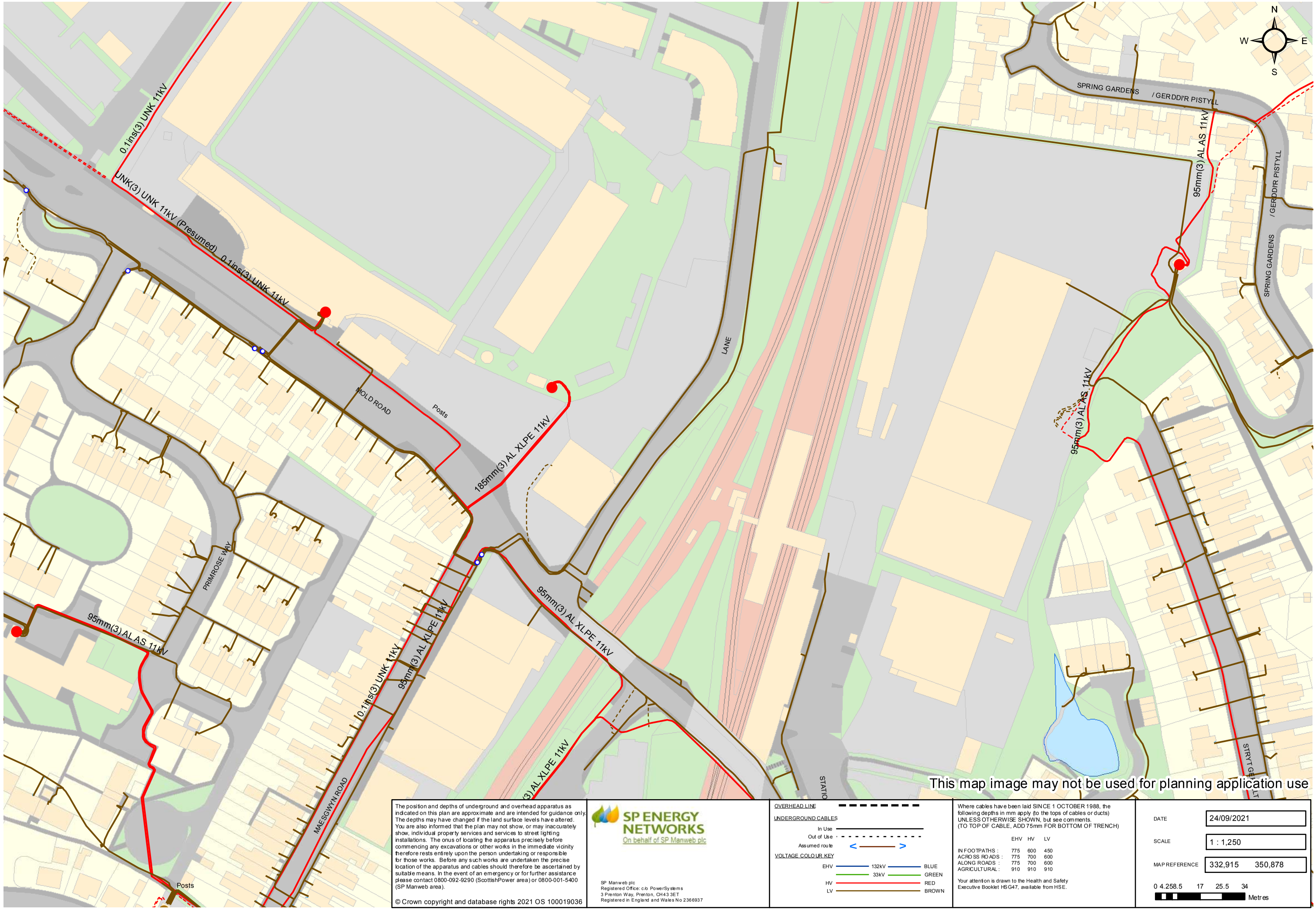
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IN FOOTPATHS :			
ACROSS ROADS :	775	600	450
ALONG ROADS :	775	700	600
AGRICULTURAL :	775	700	600
	910	910	910

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DATE	24/09/2021
SCALE	1 : 1,250
MAP REF.	332,857 350,996

0 2.75 5.5 11 16.5 22 Metres



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Registered in England and Wales No 2366937

OVERHEAD LINE

UNDERGROUND CABLES

In Use

Out of Use

Assumed route

VOLTAGE COLOUR KEY

EHV	132kV	BLUE
	33kV	GREEN
HV		RED
LV		BROWN

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AGRICULTURAL :	910	910	910

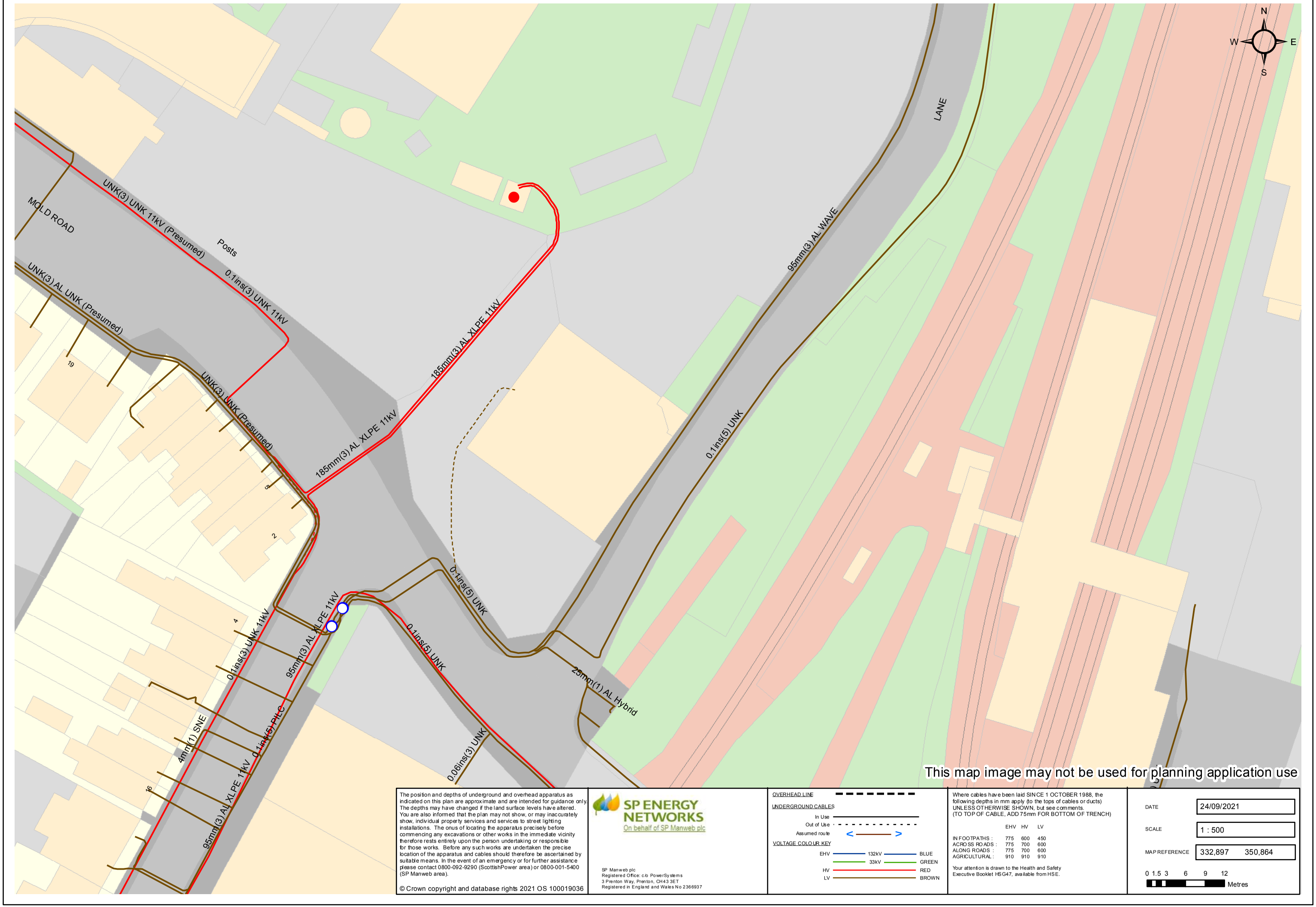
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DATE 24/09/2021

SCALE 1 : 1,250

MAP REFERENCE 332,915 350,878

0 4.258.5 17 25.5 34 Metres



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OVERHEAD LINE

UNDERGROUND CABLES

In Use

Out of Use

Assumed route

VOLTAGE COLOUR KEY

EHV	132kV	BLUE
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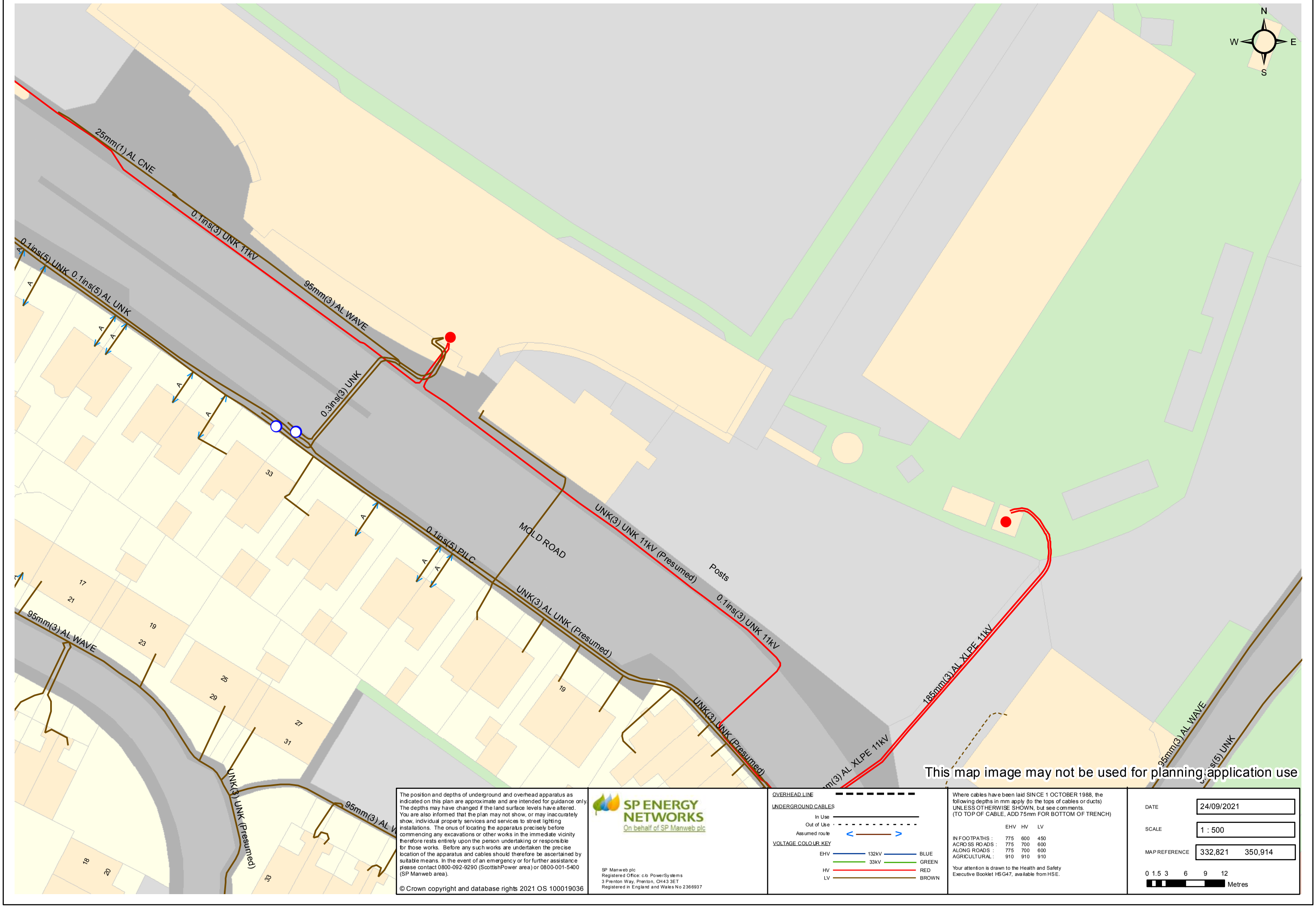
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DATE	24/09/2021
SCALE	1 : 500
MAP REFERENCE	332,897 350,864

0 1.5 3 6 9 12 Metres



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OVERHEAD LINE

UNDERGROUND CABLES

In Use

Out of Use

Assumed route

VOLTAGE COLOUR KEY

EHV	132kV	BLUE
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HV		RED
LV		BROWN

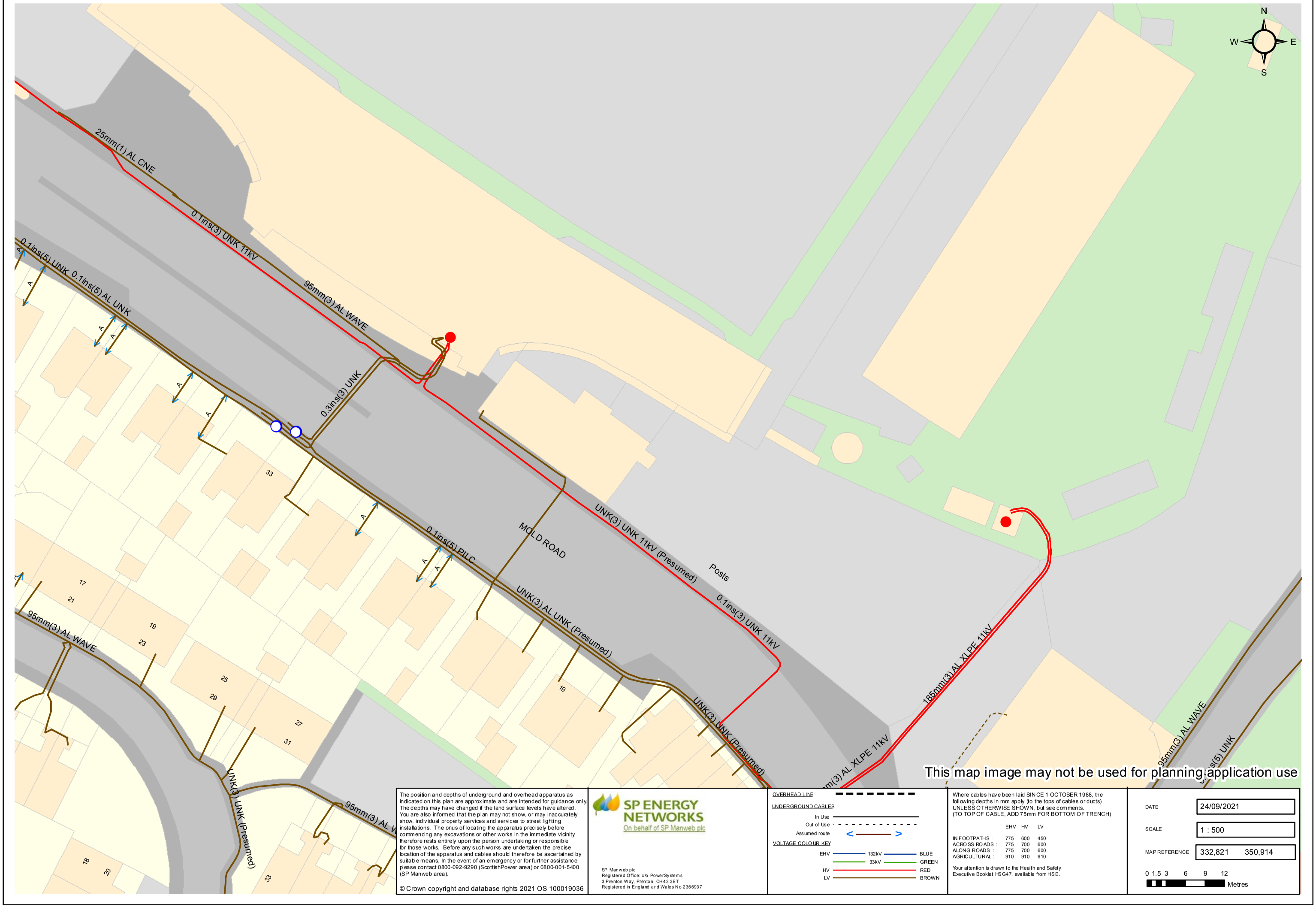
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AGRICULTURAL :	910	910	910

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DATE	24/09/2021
SCALE	1 : 500
MAP REFERENCE	332,821 350,914

0 1.5 3 6 9 12 Metres



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OVERHEAD LINE

UNDERGROUND CABLES

In Use

Out of Use

Assumed route

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DATE	24/09/2021
SCALE	1 : 500
MAP REFERENCE	332,821 350,914

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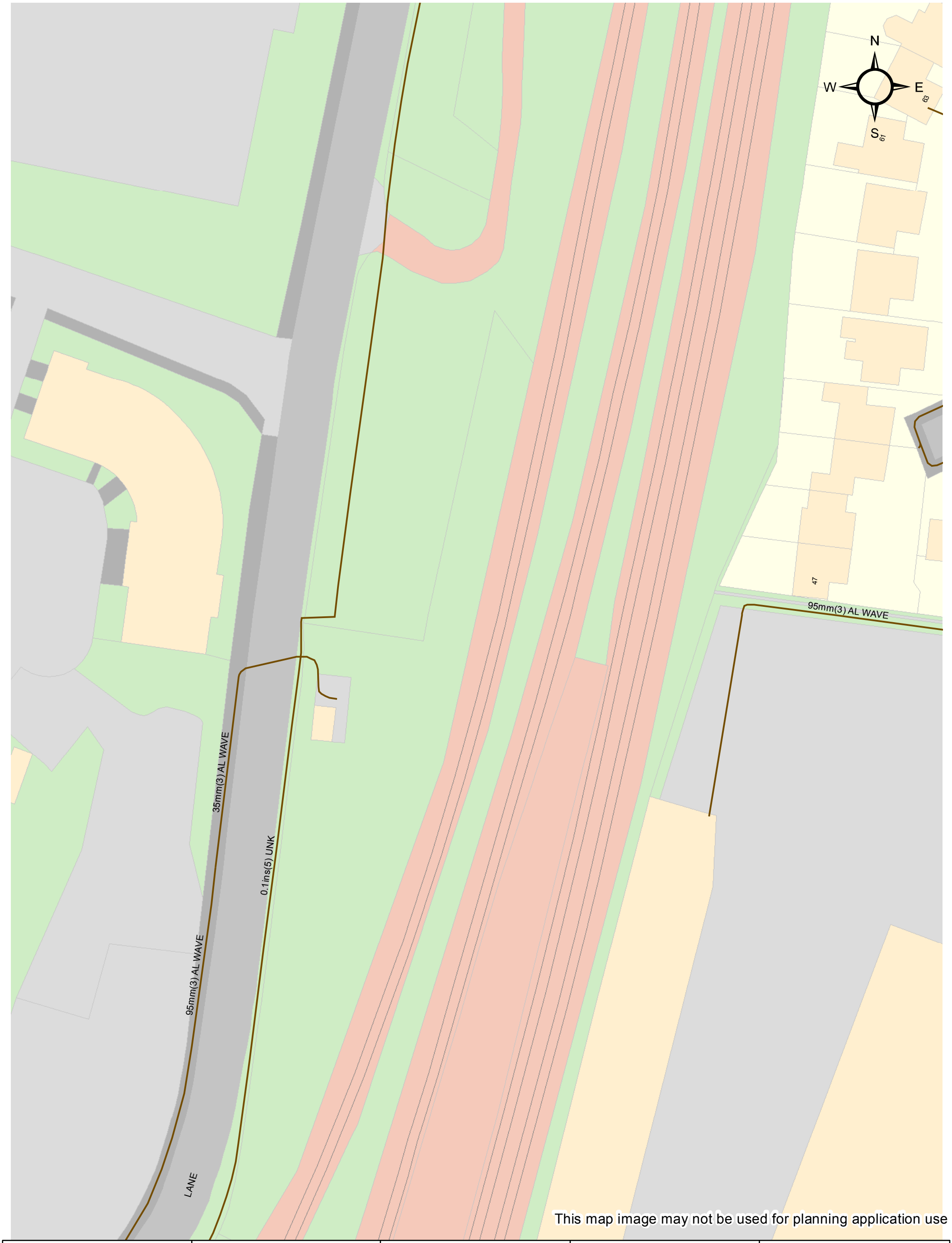
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DATE	24/09/2021
SCALE	1 : 500
MAP REFERENCE	332,823 351,068

0 1.5 3 6 9 12 Metres



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OVERHEAD LINE

UNDERGROUND CABLES

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Out of Use

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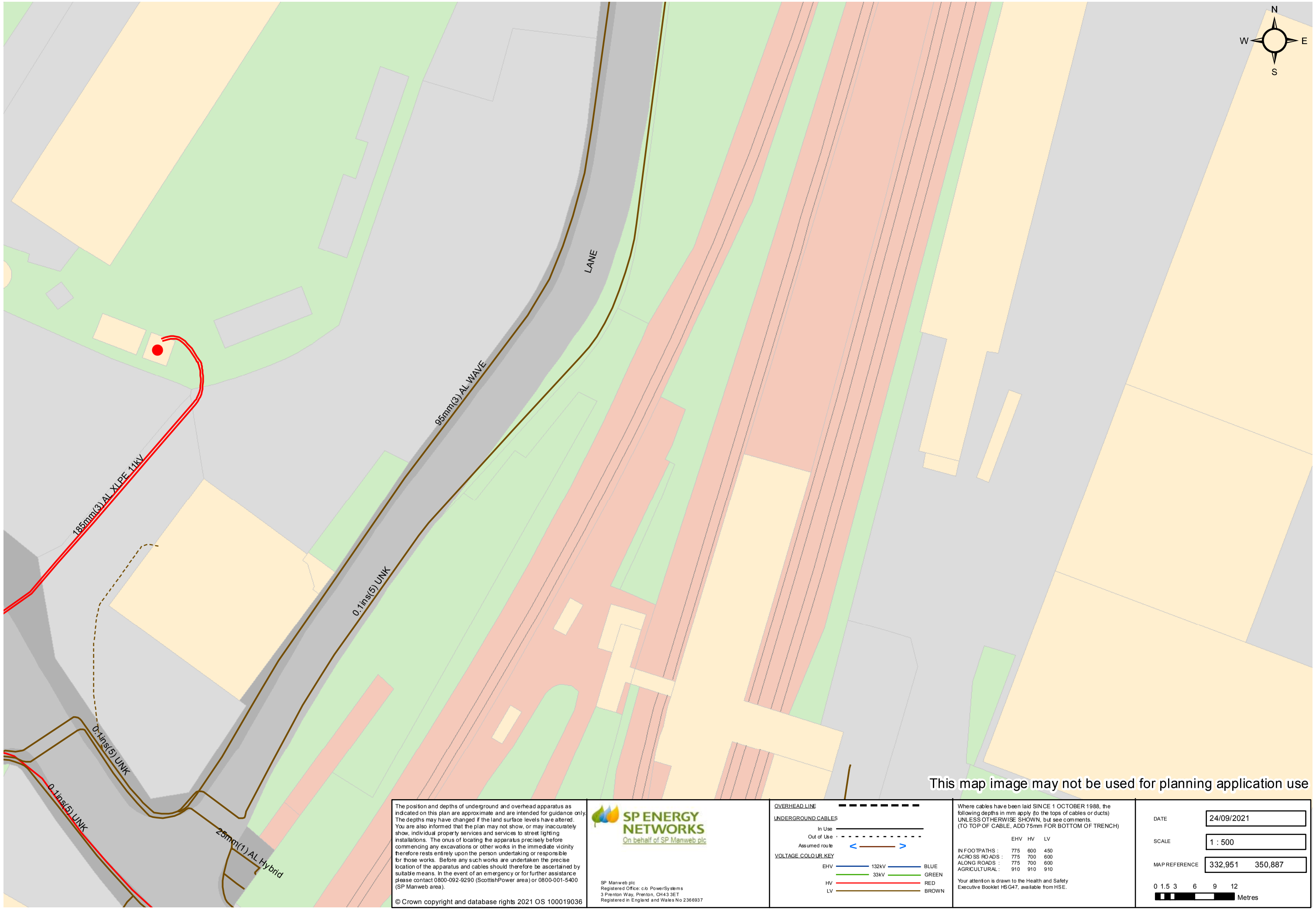
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ALONG ROADS :	775	700	600
AGRICULTURAL :	910	910	910

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DATE	24/09/2021
SCALE	1 : 500
MAP REFERENCE	332,982 350,992

0 1.5 3 6 9 12
Metres



The position and depths of underground and overhead apparatus as indicated on this plan are approximate and are intended for guidance only. The depths may have changed if the land surface levels have altered. You are also informed that the plan may not show, or may inaccurately show, individual property services and services to street lighting installations. The onus of locating the apparatus precisely before commencing any excavations or other works in the immediate vicinity therefore rests entirely upon the person undertaking or responsible for those works. Before any such works are undertaken the precise location of the apparatus and cables should therefore be ascertained by suitable means. In the event of an emergency or for further assistance please contact 0800-092-9290 (ScottishPower area) or 0800-001-5400 (SP Manweb area).

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SP ENERGY NETWORKS
On behalf of SP Manweb plc

SP Manweb plc
Registered Office: c/o PowerSystems
3 Prenton Way, Prenton, CH43 3ET
Registered in England and Wales No 2366937

OVERHEAD LINE

UNDERGROUND CABLES

In Use

Out of Use

Assumed route

VOLTAGE COLOUR KEY

EHV	132kV	BLUE
	33kV	GREEN
HV		RED
LV		BROWN

Where cables have been laid SINCE 1 OCTOBER 1988, the following depths in mm apply (to the tops of cables or ducts) UNLESS OTHERWISE SHOWN, but see comments.
(TO TOP OF CABLE, ADD 75mm FOR BOTTOM OF TRENCH)

	EHV	HV	LV
IN FOOTPATHS :	775	600	450
ACROSS ROADS :	775	700	600
ALONG ROADS :	775	700	600
AGRICULTURAL :	910	910	910

Your attention is drawn to the Health and Safety Executive Booklet HSG47, available from HSE.

DATE	24/09/2021
SCALE	1 : 500
MAP REFERENCE	332,951 350,887

0 1.5 3 6 9 12 Metres

UTILITY MAP VIEWER (UMV)

SYMBOLS AND SCALES
VERSION 3.1

Author: Louise Edwards, Steve Holmes, Sheryl Wilkinson, Naomi Kishigami
Date: 07th May 2015

Contents

Introduction **3**
GIS Symbols and Scales **4**
Overhead Lines, Underground Cables and Non Power Cables **12**
GND Symbols and Scales **13**

Introduction

The GIS application suite comprising UMV, ArcView and ArcMap is in everyday use throughout the company, as well as being available to scores of third party companies throughout the UK.

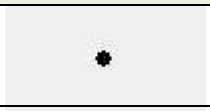
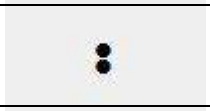
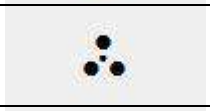
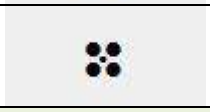
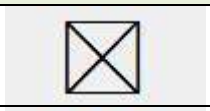
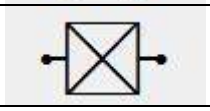
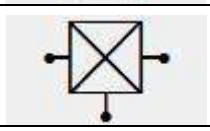
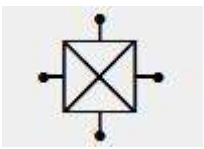
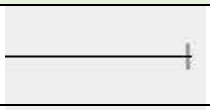
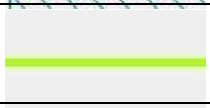
Within the pages of this document, a brief explanation for each asset type modelled within GIS is given. Said explanation comprises the asset name, its symbology, its whereabouts within the layer control environment and finally the scale range at which they become visible.

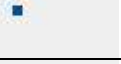
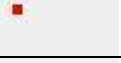
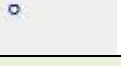
Knowing at which scales assets are designed to be visible at may well solve users problems based on ‘it’s ticked to display but I can’t see anything...’

GIS Symbols and Scales

Symbology	Asset	Scale
Substation Locations		
/ SOP		
	SOP	250 - 7,505
/ Ground-Mounted Sub		
	Trans/Grid Substation (including. Switchgear Only)	<51,000
	Primary Substation (including. Switchgear Only)	<50,000
	Secondary Substation (including. Switchgear Only)	40 - 7,505
	LV Only Substation	40 - 5,005
	Externally Deleted Substation	Same as their voltages above
	Building and Site Only	Same as their voltages above
/ Pole-Mounted Sub		
	Pole Mounted Secondary Substation	<25,000
	Pole Mounted Secondary Substation (Externally Deleted)	<25,000
	Remote Equipment Location	<25,000
	Remote Equipment Location (Externally Deleted)	<25,000
/ Dynamic Protective Device		
	Dynamic Protective Device (Unknown)	<40
	Circuit Breaker	<40

	Circuit Breaker (Externally Deleted)	<40
	Sectionaliser	<40
	Sectionaliser (Externally Deleted)	<40
	Pole Mounted Auto Recloser	<40
	Pole Mounted Auto Recloser (Externally Deleted)	<40
/ Protective Device		
	Protective Device (Unknown)	<1,000
	Switch Fuse Fuse Gear	<1,000
	Switch Fuse (Externally Deleted) Fuse Gear(Externally Deleted)	<1,000
/ Switch		
	Switch (Unknown)	<40
	Switch AB Switch Disconnector PM Switch	<40
	Switch (Externally Deleted) AB Switch Disconnector (Externally Deleted) PM Switch (Externally Deleted)	<40
/ Distribution Transformer		
	Distribution Transformer (Unknown)	<40
	Pole Mounted / Ground Mounted Secondary Transformer	<40
	Pole Mounted / Ground Mounted Secondary Transformer (Out Of Use)	<40
/ LV Fuse		
	LV Fuse	<40

Overhead Assets		
Under Each Voltage		
	Single Pole	<7,505
	A Pole	<7,505
	H Pole	<7,505
	3 Member Pole	<7,505
	4 Member Pole	<7,505
/ Trans / Tower		
	Single Circuit	<10,005
	Dual Circuit	<10,005
	Tri Circuit	<10,005
	Quad Circuit	<10,005
/ Support Structure		
	Stay	<5,005
	Flying Stay	<5,005
Low Ground Clearance		
	Hazard Observation	250 - 7,505
	Location Risk	250 - 7,505
	Span	250 - 7,505

Ground Assets		
Under Each Voltage		
	Cable Joint	<750
Under Each Voltage		
	Trans Metered Service Point (400/275/132kV)	<2,005
	EHV Metered Service Point	<2,005
	HV Metered Service Point (22kV)	<2,005
	HV Metered Service Point (11kV)	<2,005
	HV Metered Service Point (6.6kV)	<2,005
	LV Metered Service Point	<2,005
/ Non Voltage Specifics		
	Fault Symbol	<7,505
	System Abnormal	<7,505
	Temporary Joint	<7,505
	Working In Progress	<7,505
	Duct (1 Line to 20 Line)	<2,505
/ LV / LV Switch Point		
	Pillar	<2,505
	Link Box	<2,505
/ LV / UnMetered Service Point		

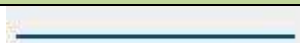
	Unmetered Service Point	<2,000
General Info		
/ SAP		
	SAP Observations	<5,000
/ Data Management Return		
DMR	DMR - Outstanding	<10,000
DMR	DMR - Complete	<10,000
/ Area Info		
	Independent Network Operator	<10,000
	Contaminated Ground	<10,000
	ACCESS ALERT	<10,000
	Ad Hoc instances	<10,000
	Shallow Cables	<10,000
	Problem	<10,000
	Second Comer	<10,000
	Substation Compound	<10,000
	Wayleave Access	<10,000
/ Line Info / Assumed Route		
< >	Assumed Route	<1,255
/ Line Info / Others		
< >	Duplex	<1,255
< >	IDNO	<1,255

< >	Water Main	<1,255
< >	Moled Cable	<1,255
< >	Non Standard Depth	<1,255
/ General Info / Category 1		
	Access Alert	<3,000
	Danger	<3,000
	G59 Generator	<3,000
	Generator	<3,000
	IDNO	<3,000
	Point Of Connection	<3,000
	Potential Generation	<3,000
/ General Info / Category 2		
	Fault Indicator	<2,005
	LVFM	<2,005
	Missing As-Laid	<2,005
	Missing Joint	<2,005
	Sensitive Building	<2,005
	Susceptible To Flooding	<2,005
	Zero Customers	<2,005
/ General Info / Category 3		

	11Kv Surge Divertor	<2,005
	33Kv Surge Divertor	<2,005
	Approximation	<2,005
	Assumed Position	<2,005
	Clarity Point	<2,005
	Earth Point	<2,005
	Edge Connector	<2,005
	Forced Connectivity	<2,005
	Functional Location	<2,005
	Lateral Mains	<2,005
	Note	<2,005
	Pseudo Joint	<2,005
	Quality	<2,005
	Second Corner	<2,005
	Voltage Regulator	<2,005
/ Proposed Development		
	Proposed Development	<7,505
/ Environmentally Sensitive Areas		

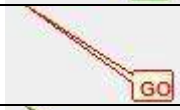
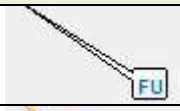
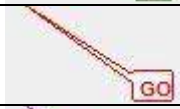
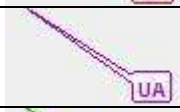
	National Parks	<50,000
	Areas of Outstanding Natural Beauty	<50,000
	Special Protection Areas	<50,000
	Special Area of Conservation	<50,000
	RAMSAR	<50,000
	National Nature Reserves	<50,000
	Site of Special Scientific Interest	<50,000
	Ancient Woodland	<50,000
	Scheduled Monuments	<50,000
	National Scenic Areas	<50,000
OS		
/ Customers Details		
	Medically sensitive	<2,000
	Other Sensitive	<2,005
	Non Sensitive	<2,005
	Commercially Sensitive Customer	<20,000

Overhead Lines, Underground Cables and Non Power Cables

Symbology	Asset	Scale
Overhead Assets		
	Trans	<65,000
	33kV	<50,000
	22kV	<50,000
	11kV	<50,000
	6.0kV and 6.6kV	<50,000
	LV	<50,000
	Out of Use	Same as their voltages above
Ground Assets		
	Trans	<65,000
	Trans (Out of Use)	<65,000
	33kV	<50,000
	33kV (Out of Use)	<50,000
	22kV	<50,000
	22kV (Out of Use)	<50,000
	11kV	<7,505
	11kV (Out of Use)	<7,505
	6.0kV and 6.6kV	<7,505
	6.0kV and 6.6kV (Out of Use)	<7,505
	LV	<5,005
	LV (Out of Use)	<5,005
General / Third Party Data		
	Third Party Overhead Lines	<100,000
	Third Party Underground Cables	<10,000
	High Pressure Gas Pipelines	<65,000
General / Third Party Data / Dee Valley Water		
	Raw Water	<50,000

	Potable Water	<50,000
	Non Potable Water	<50,000

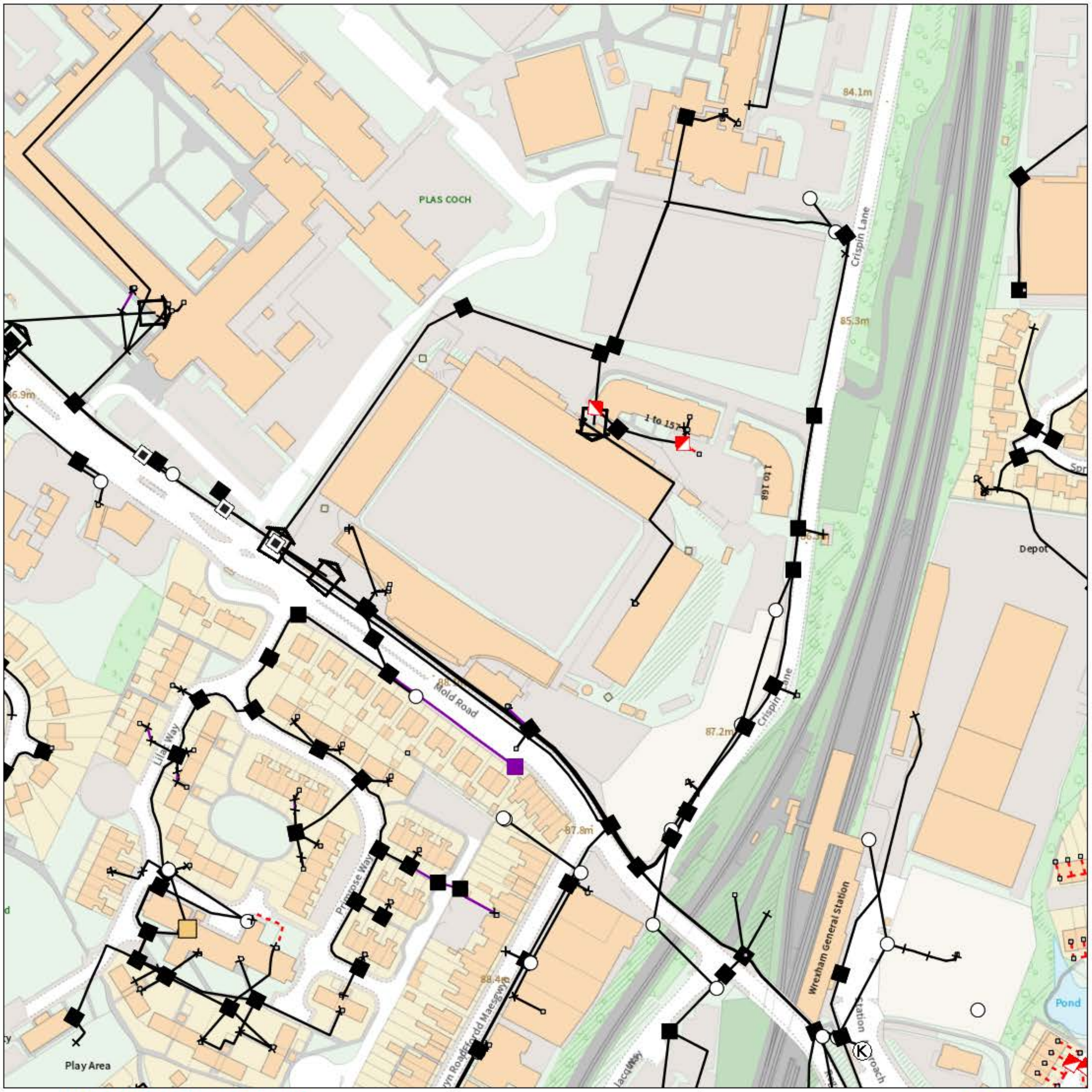
GND Symbols and Scales

Symbology	Asset	Scale
GND		
LV Diagram / Dressing Symbology / Surveyed State & Design State Archive 27032011		
	Normally Open	None
	Grid Open	None
	Automation	None
	Surveyed Open	None
	Surveyed Closed	None
	Presumed Open point	None
LV Diagram / Dressing Symbology / LV Link		
	Fused	None
	Temporary Closed	None
	Normally Open	None
	Grid Open	None
	Urban Automation	None
	Presumed Open	None

	Temporary Open	None
LV Diagram / LV Transition Point		
	LV Transition Joint	<2,505
LV Diagram / LV Switch Point		
	Pillar	None
	Link Box	None
/ General		
	Commercially Sensitive Customer	<7,505
	Out Of Phase	<5,505
	Proposed Development	<7,505
	Fault Symbol	<7,505
	System Abnormal	<7,505
	Work In Progress	<7,505

BT (Openreach)

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

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

email cbyd@openreach.co.uk

ADVANCE NOTICE REQUIRED
(Office hours: Monday - Friday 08.00 to 17.00)
www.openreach.co.uk/cbyd

Accidents happen

If you do damage any Openreach equipment please let us know by calling 0800 023 2023 (opt 1 + opt 1) and we can get it fixed ASAP

Reproduced from the Ordnance Survey map by BT
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KEY TO BT SYMBOLS

	Planned	Live
PCP		
Pole		
Box		
Manhole		
Cabinet		

Change Of State	+	Hatchings	
Split Coupling	×	Built	
Duct Tee	▲	Planned	
Building		Inferred	
Kiosk	K	Duct	

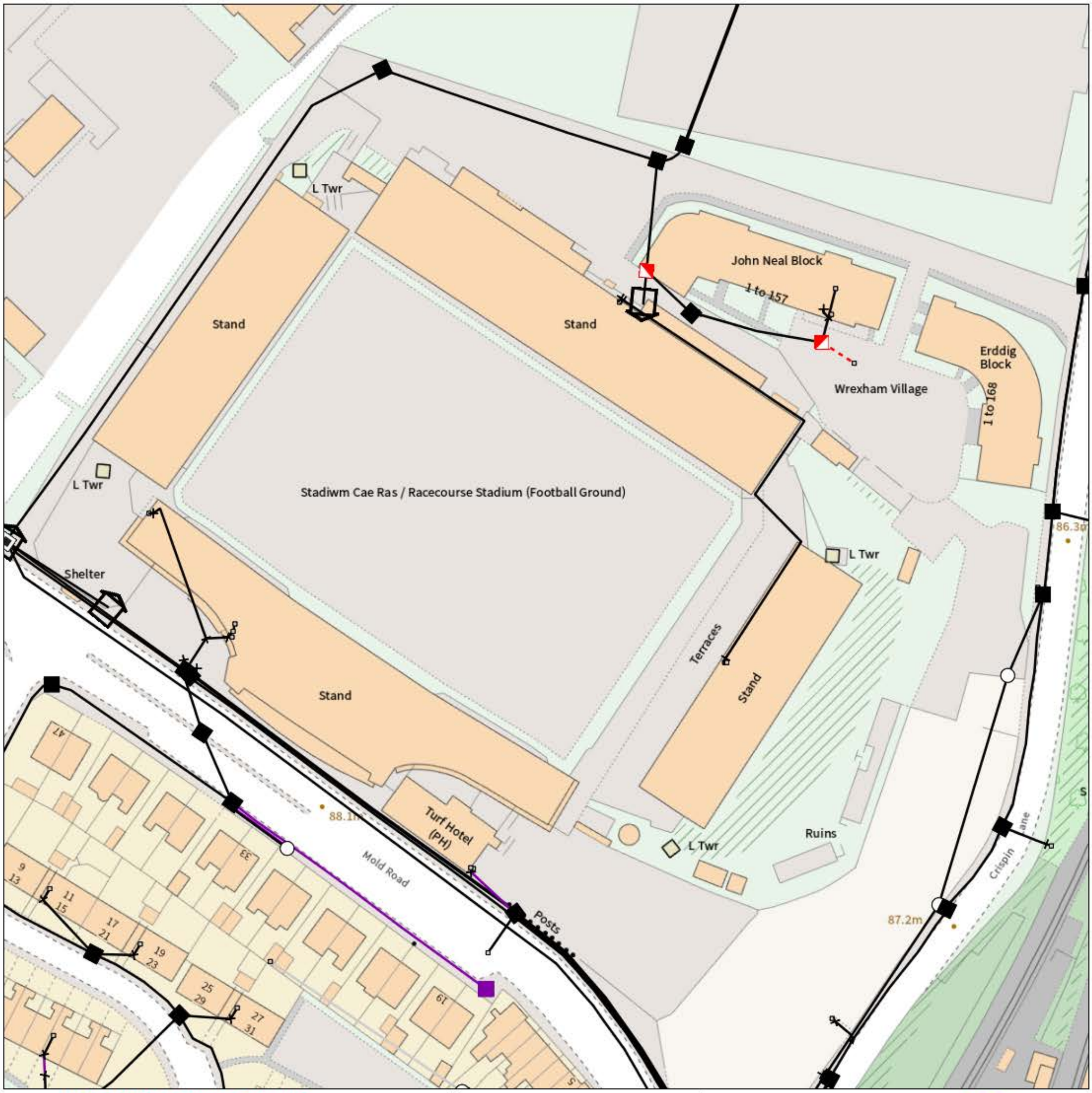
Other proposed plant is shown using dashed lines.
BT Symbols not listed above may be disregarded.
Existing BT Plant may not be recorded.
Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.

	Pending Add	In Place	Pending Remove	Not In Use
Power Cable				
Power Duct				N/A

BT Ref : GEE02237C
Map Reference : (centre) SJ3283050981
Easting/Northing : (centre) 332830,350981
Issued : 17/09/2021 14:23:16

WARNING: IF PLANNED WORKS FALL INSIDE HATCHED AREA IT IS ESSENTIAL BEFORE PROCEEDING THAT YOU CONTACT THE NATIONAL NOTICE HANDLING CENTRE. PLEASE SEND E-MAIL TO: nnhc@openreach.co.uk

Maps by email Plant Information Reply



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KEY TO BT SYMBOLS

	Planned	Live
PCP		
Pole		
Box		
Manhole		
Cabinet		

Change Of State	+	Hatchings	
Split Coupling	×	Built	
Duct Tee	▲	Planned	
Building		Inferred	
Kiosk	K	Duct	

Other proposed plant is shown using dashed lines.
BT Symbols not listed above may be disregarded.
Existing BT Plant may not be recorded.
Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.

	Pending Add	In Place	Pending Remove	Not In Use
Power Cable				
Power Duct				N/A

BT Ref : OMB02237W
Map Reference : (centre) SJ3283050981
Easting/Northing : (centre) 332830,350981
Issued : 17/09/2021 14:23:40

WARNING: IF PLANNED WORKS FALL INSIDE HATCHED AREA IT IS ESSENTIAL BEFORE PROCEEDING THAT YOU CONTACT THE NATIONAL NOTICE HANDLING CENTRE. PLEASE SEND E-MAIL TO: nnhc@openreach.co.uk

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Identifying our equipment



If you're planning or building a new development, working on a regeneration project or undertaking roadworks it's likely that you'll come across some of our network infrastructure.

This guide includes images and descriptions of the most common types of equipment (past and present) to help you identify what's on your site so we can best advise you if you need anything moved or removed.

If you're not sure, please contact us – ideally sending a photo of the plant on your site – before you start work.

Poles and attachments



There are currently three materials used for poles: wood, steel and fibreglass.
Wooden poles vary in length from 7 to 15m depending on the span the lines need to cover.

There are two types of pole in use:

- **Radial Distribution Poles:** typically to serve a number of properties in a street
- **Carrier Poles:** typically found in more rural locations, these are often used to provide an overhead route from A to B.

Pole markings



Owner of the pole – In this case BT. Older poles may also be marked as GPO or PO

Pole length and class (light, medium or stout) – 10L = 10m light

Year of preservation – 97

Supplier marker and type of wood – 2I = supplier 2 and Imported (I)



The punch hole sign is a testing cycle sign. This label is for internal Openreach use.

The pole reference number:

Distribution Pole – The letters DP, plus a number, in this case 19.

Carrier Pole – No letters, just a number will be shown.

You may also see square metal labels with a letter on a pole, i.e. C, D, H, SD and Z. These indicate the status of the pole to a visiting engineer.

Street covers and cabinets

Street covers and cabinets (PCP) have changed over the years, from cast iron to fibreglass to pressed steel. Sizes vary and all are made in single door versions. The most common examples are:



Cast iron cabinet



Fibreglass cabinet



Single door cabinet (with replacement steel door)



Steel cabinet



All-in-one cabinet

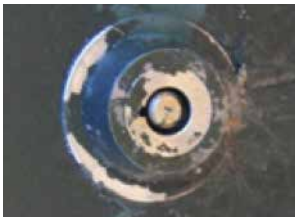
How to spot one of our cabinets: keys and markings

Openreach and Virgin Media both have street cabinets and they look quite similar. Often the only difference is the type of key needed to open them. Openreach cabinets have a triangular or star shaped insert, while Virgin Media use conventional keys (see below).





Openreach keys



Virgin Media key

All Openreach cabinets, frames and covers, are marked to show who owns them. Examples of these markings and the materials cabinets are made of are shown below.



Cast iron GPO marking



Fibreglass Telecom marking



Steel BT marking

Carriageway covers

These boxes generally contain small customer connections. The old type of covers were made of concrete with a concrete lid while current covers are made of fibreglass and have a steel lid.

There are generally two types of carriageway covers. Those with a T-shaped key, the Silent Night, and those with a D-shaped key, the Elkington. Both types were supplied in all sizes and while the design varied slightly all have ownership markings on them.

All sizes are approximate.

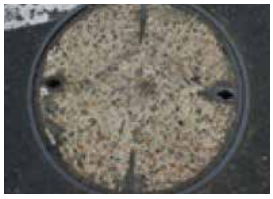
Carriageway covers with two triangular lids



CW No.1
Silent Night
680mm x 680mm



CW No.1
old type (Elkington)
inserts vary



Very old round
CW no.1

Carriageway covers with four triangular lids



CW No.2 Silent Night
1220mm x 680mm



CW No.2 old type
(Elkington)

Carriageway covers with six triangular lids



CW No.3 current type



CW No.3 Silent Night type



CW No.3 Elkington type

Footway covers

Footway covers come in six basic sizes: small, medium, large, square, twin and triple, although there are size variants within some types. All sizes are approximate.

Small covers

These lids cover boxes which generally contain small customer connections. Previously the boxes and lids were made of concrete, but the current footway boxes are made of fibreglass and have steel lids.



JB21 31x41cm



JB22 41x61cm



JB23 28x50cm

Medium covers

There is only one size of cover in this category. This lid can be found on a fibreglass preformed box, JB26, as well as a concrete/brick chamber, JF2. As with the JB 23 small footway box above the JB26 will have a thin white edge around the cover while the JF2 has a fillet.



Old style cast iron and concrete 38x80cm



JF2/JB26 34x80cm

Large covers

Along with the twin, this is probably the most common footway type in the network. Originally the covers were made of cast iron and concrete but now they're just made of concrete.



JF4 current type 55x100cm



JF4 old type 55x100cm

Square covers

These covers are placed over manholes and are found in the footways and verges.



JF5 70x70cm



JF5 old type 70x70cm

Twin covers

This cover shown in the section is probably the most common footway type in our network. Originally the cover was made of cast iron and concrete but now they're just made of concrete. You can see variations to the inserts and markings below.



JF6
70x140cm



JF6 old cast and concrete type 70x140cm

Triple covers

The two sizes of triple lid covers are shown here.



JF10 80x240cm



JF11 80x140cm

Inserts and markings

In this section you can see examples of the markings that you would expect to find on our equipment.

Footway

Examples of the current JF4 and JF5 inserts are shown below. The number ‘4’ or ‘5’ shown on the right hand side of the insert identifies the type. The letters ‘DW’ shown on the top right hand corner of the JF5 box indicate that this is a drive way lid built to stand further loading.



JF4



JF5

The following examples show the changes undertaken from GPO to BT.



Carriageway

The current marking is shown below, with some of the older versions beneath.

Current marking



Older markings



Non-standard plant

Some locations have used bespoke cover infills which improve the aesthetics of the area, enhance paving designs or accommodate high tactile surfacing. The scope of these type of covers is endless.

Maintenance for these covers may not reside with Openreach as often the responsibility remains with the Authority.

A small selection of non-standard footway and carriageway covers are shown below.



FW No.4



CW No.3 insert type



FW No.6



Detail of legend built into frame



National Telephone Company Limited

Disclaimer
This document contains information intended to help you to identify Openreach equipment on your site and is provided for information purposes only. Whilst Openreach makes every effort to ensure that the information contained in this document is accurate, Openreach does not represent that it is complete. The contents of this pack cannot be copied or reproduced in whole or in part without the written consent of British Telecommunications plc, through its division, Openreach.

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Rail

Dear Sir/Madam,

With regards to your enquiry, Network Rail does not believe there is any Network Rail owned apparatus or underground services within the area you have defined. As there is always the possibility that new works could be planned and undertaken in this area by Network Rail this information is valid as at today's date and is supplied for general guidance only.

Please be aware that this response is based on Network Rail's records and knowledge and no guarantee can be given regarding accuracy or completeness. CAT scans, safe digging practices (as contained in HSE publications) and other appropriate investigative techniques should always be carried out.

There may be other apparatus or underground services owned or operated by Utility Companies and accordingly you should contact individual utilities for information.

If, in connection with your investigations and/or work, you become aware of Network Rail apparatus or underground services within your area of work, please ensure these are notified to our Asset Protection team via the following link as a matter of urgency so that appropriate measures for avoidance of risk and damage can be put in place.

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

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

Regards,

Gareth Milne

Distribution Administrator

Worksite Survey | Asset Information Services
National Records Centre | Audax Road | York YO30 4US
T: 01904 386353 | **E:** gareth.milne@networkrail.co.uk
W: www.networkrail.co.uk

Environment

UNEXPLODED BOMB RISK MAP

SITE LOCATION

Location: LL11 2AH,
Map Centre: 332807,350914



LEGEND

- **High:** Areas indicated as having a bombing density of 50 bombs per 1000acre or higher.
- **Moderate:** Areas indicated as having a bombing density of 15 to 49 bombs per 1000acre.
- **Low:** Areas indicated as having 15 bombs per 1000acre or less.

miltary	**industry**	**UXO find**
transport	**dock**	**Luftwaffe targets**
utilities	**Bombing decoy**	**other**

How to use your Unexploded Bomb (UXB) risk map?

The map indicates the potential for Unexploded Bombs (UXB) to be present as a result of World War Two (WWII) bombing.

You can incorporate the map into your preliminary risk assessment* for potential Unexploded Ordnance (UXO) for a site. Using this map, you can make an informed decision as to whether more in-depth detailed risk assessment* is necessary.

What do I do if my site is in a moderate or high risk area?

Generally, we recommend that a detailed UXO desk study and risk assessment is undertaken for sites in a moderate or high UXB risk area.

Similarly, if your site is near to a designated Luftwaffe target or bombing decoy then additional detailed research is recommended.

More often than not, this further detailed research will conclude that the potential for a significant UXO hazard to be present on your site is actually low.

Never plan site work or undertake a risk assessment using these maps alone. More detail is required, particularly where there may be a source of UXO from other military operations which are not reflected on these maps.

If my site is in a low risk area, do I need to do anything?

If both the map and other research confirms that there is a low potential for UXO to be present on your site then, subject to your own comfort and risk tolerance, works can proceed with no special precautions.

A low risk really means that there is no greater probability of encountering UXO than anywhere else in the UK.

If you are unsure whether other sources of UXO may be present, you can ask for one of our **pre-desk study assessments (PDSA)**

If I have any questions, who do I contact?

tel: **+44 (0) 1993 886682**

email: **uxo@zetica.com**

web: **www.zeticauxo.com**

The information in this UXB risk map is derived from a number of sources and should be used in conjunction with the accompanying notes on our website: **(https://zeticauxo.com/downloads-and-resources/risk-maps/)**

Zetica cannot guarantee the accuracy or completeness of the information or data used and cannot accept any liability for any use of the maps. These maps can be used as part of a technical report or similar publication, subject to acknowledgment. The copyright remains with Zetica Ltd.

It is important to note that this map is not a UXO risk assessment and should not be reported as such when reproduced.

*Preliminary and detailed UXO risk assessments are advocated as good practice by industry guidance such as CIRIA C681 'Unexploded Ordnance (UXO), a guide for the construction industry'.

Communications (None Affected)

Enquiry Confirmation

LSBUD Ref: 23301736

Date of enquiry: 17/09/2021
Time of enquiry: 13:43

Enquirer

Name	Mr Paul Hodgson	Phone	01302 352116
Company	Utility Site Search	Mobile	Not Supplied
Address	Towpath Cottage Top Lane Braithwaite Doncaster South Yorkshire DN7 5SX		
Email	hodbate@yahoo.com		

Enquiry Details

Scheme/Reference	Wrexham AFC		
Enquiry type	Initial Enquiry	Work category	Utility Works
Start date	18/09/2021	Work type	Multiple excavations site (1.5m or s
End date	25/09/2021	Site size	48935 metres square
Searched location	XY= 332830, 350981	Work type buffer*	25 metres
Confirmed location	332826 350985		
Site Contact Name	Not Supplied	Site Phone No	Not Supplied
Description of Works			

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

Site Map



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Enquiry Confirmation

LSBUD Ref: 23301736

Date of enquiry: 17/09/2021
Time of enquiry: 13:43

Asset Owners

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

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

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

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

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

Below are three lists of asset owners:

1. LSBUD Members who have assets registered within your search area. ("Affected")
   a. These LSBUD Members will either:
      i. Ask for further information ("Email Additional Info" noted in status). The additional information includes: Site contact name and number, Location plan, Detailed plan (minimum scale 1:2500), Cross sectional drawings (if available), Work Specification.

      ii. Respond directly to you ("Await Response"). In this response they may either send plans directly to you or ask for further information before being able to do so, particularly if any payments or authorisations are required.

2. LSBUD Members who do not have assets registered within your search area. ("Not Affected")

3. Non LSBUD Members who may have assets within your search area. Please note that this list is not exhaustive and all details are provided as a guide only. It is your responsibility to identify and consult with all asset owners before proceeding.

Enquiry Confirmation

LSBUD Ref: 23301736

Date of enquiry: 17/09/2021
Time of enquiry: 13:43

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

List of affected LSBUD members			
Asset Owner	**Phone/Email**	**Emergency Only**	**Status**
ESP Utilities Group	01372227560	01372227560	Await response
Wales and West Utilities	02920278912	0800111999	Await response

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

List of not affected LSBUD members		
AWE Pipeline	Balfour Beatty Investments Limited	BOC Limited (A Member of the Linde Group)
Box Broadband	BP Exploration Operating Company Limited	BPA
Cadent Gas	Carrington Gas Pipeline	CATS Pipeline c/o Wood Group PSN
Cemex	Centrica Storage Ltd	CNG Services Ltd
Concept Solutions People Ltd	ConocoPhillips (UK) Teesside Operator Ltd	Diamond Transmission Corporation
DIO (MOD Abandoned Pipelines)	DIO (MOD Live Pipelines)	E.ON UK CHP Limited
EirGrid	Electricity North West Limited	ENI & Himor c/o Penspen Ltd
EnQuest NNS Limited	EP Langage Limited	ESSAR
Esso Petroleum Company Limited	euNetworks Fiber UK Ltd	Exolum Pipeline System
Fulcrum Pipelines Limited	Gamma	Gas Networks Ireland (UK)
Gateshead Energy Company	Gigaclear Ltd	Gtt
Harbour Energy	Heathrow Airport LTD	Humbly Grove Energy
IGas Energy	INEOS FPS Pipelines	INEOS Manufacturing (Scotland and TSEP)
INOVYN ChlorVinyls Limited	INOVYN Enterprises Limited	Intergen (Coryton Energy or Spalding Energy)
Jurassic Fibre Ltd	Last Mile	Mainline Pipelines Limited
Manchester Jetline Limited	Manx Cable Company	Marchwood Power Ltd (Gas Pipeline)
Melbourn Solar Limited	Murphy Utility Assets	National Grid Electricity Transmission
National Grid Gas Transmission	Neos Networks	Northumbrian Water Group
NPower CHP Pipelines	NTT Global Data Centers EMEA UK Ltd	NYnet Ltd
Oikos Storage Limited	Ørsted	Palm Paper Ltd
Perenco UK Limited (Purbeck Southampton Pipeline)	Petroineos	Phillips 66
Portsmouth Water	Premier Transmission Ltd (SNIP)	Redundant Pipelines - LPDA
RWE - Great Yarmouth Pipeline (Bacton to Great Yarmouth Power Station)	RWEnpower (Little Barford and South Haven)	SABIC UK Petrochemicals
Scottish and Southern Electricity Networks	Scottish Power Generation	Seabank Power Ltd
SES Water	SGN	Shell
Shell NOP	SSE Generation Ltd	SSE Transmission
SSE Utility Solutions Limited	Tata Communications (c/o JSM Construction Ltd)	Total Colnbrook Pipelines
Total Finaline Pipelines	Transmission Capital	UK Power Networks

Uniper UK Ltd	University of Cambridge Granta Backbone Network	Vattenfall
Veolia ES SELCHP Limited	Veolia ES Sheffield Ltd	VPI Power Limited
West of Duddon Sands Transmission Ltd	Western Power Distribution	Westminster City Council
Zayo Group UK Ltd c/o JSM Group Ltd		

Enquiry Confirmation

LSBUD Ref: 23301736

Date of enquiry: 17/09/2021
Time of enquiry: 13:43

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

Non-LSBUD members (Asset owners not registered on LSBUD)			
Asset Owner	**Preferred contact method**	**Phone**	**Status**
BT	https://www.swns.bt.com/pls/mbe/welcome.home	08000232023	Not Notified
CenturyLink Communications UK Limited	plantenquiries@instalcom.co.uk	02087314613	Not Notified
CityFibre	asset.team@cityfibre.com	033 3150 7282	Not Notified
Colt	plantenquiries@catelecomuk.com	01227768427	Not Notified
Dwr Cymru Welsh Water	ndcenquiries@dwrcymru.com	0800 917 2652	Not Notified
ENGIE	nrswa.uk@engie.com	01293 549944	Not Notified
GTC	https://pe.gtc-uk.co.uk/PlantEnqMembership	01359240363	Not Notified
Hafren Dyfrdwy	www.stwater.co.uk/building-and-developing/estimators-and-maps/request-a-water-sewer-map	03306781492	Not Notified
Mobile Broadband Network Limited	mbnl.plant.enquiries@turntown.com	01212 621 100	Not Notified
Scottish Power (South)	requestforplansmanweb@spenergynetworks.co.uk	01416145666	Not Notified
Sky UK Limited	nrswa@sky.uk	02070323234	Not Notified
Sota	SOTA.plantenquiries@instalcom.co.uk		Not Notified
Utility assets Ltd	enquiries@utilityassets.co.uk		Not Notified
Verizon Business	osp-team@uk.verizonbusiness.com	01293611736	Not Notified
Virgin Media	http://www.digdat.co.uk	08708883116	Not Notified
Vodafone	osm.enquiries@atkinsglobal.com	01454662881	Not Notified

Disclaimer

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

Dear Sir/Madam,

Thank you for your enquiry for the above reference.

We can confirm that Colt Technology Services do not have apparatus near the above location as presented on your submitted plan, if any development or scheme amendments fall outside the 50 metre perimeter new plans must be submitted for review.

Search is based on Overseeing Organisation Agent data supplied; we do not accept responsibility for O.O. Agent inaccurate data.

If we can be of any further assistance please do not hesitate to contact us.

Kind regards,

Plant Enquiry Team

C.A. TELECOM UK LIMITED

Dear Sir or Madam,

With reference to your plant enquiry below, we can confirm that KPN do not have any apparatus within the immediate proximity of your proposed works

If you require any further information, please do not hesitate to contact us.

Please note that this response is only valid for 3 months. If your works do not commence within this time period, please resubmit your plant enquiry for assessment before any works commence.

Regards

Plant Enquiries Dept

Instalcom Limited

Borehamwood Ind. Park

Rowley Lane

Borehamwood

WD6 5PZ

Office: +44 (0)208 731 4613

Fax: +44 (0)208 731 4601

Email: kpn.plantenquiries@instalcom.co.uk

Web: http://www.instalcom.co.uk

Dear Sir or Madam,

Thank you for your plant enquiry below.

We can confirm that Level 3, Global Crossing (Uk) Ltd, Global Crossing PEC, Fibernet UK Ltd and Fibrespan Ltd do not have any apparatus within the indicated works area.

Instalcom responds to plant enquiries for all of the above and therefore you only need send one plant enquiry to cover all of these companies.

Please note that this response is only valid for 3 months. If your works do not commence within this time period, please resubmit your plant enquiry for assessment before any works commence.

Regards

Plant Enquiries Dept

Instalcom Limited

Borehamwood Ind. Park

Rowley Lane

Borehamwood

WD6 5PZ

Office: +44 (0)208 731 4613

Fax: +44 (0)208 731 4601

Email: plantenquiries@instalcom.co.uk

Web: http://www.instalcom.co.uk

Thank you for your enquiry.

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

Best endeavours have been made to ensure accuracy, however if you require further information, please contact us by email at nrswa@sky.uk.

Regards

NRSWA Department
Sky UK – Technology - Operations
nrswa@sky.uk +44 2070323234

Hi, thanks for the advance notice however I can confirm on this occasion we have NO apparatus in the vicinity of the proposed works. (Gtt formerly Hibernia Networks). We are now a member of LSBUD, for all future requests please contact LSBUD directly.

Regards

Owen Maguire

Networks Operations Manager NI
office: +44 (0) 28 70380028 | mobile: +44 754-553-2224

www.gtt.net



dig .co.uk dat
Ordnance Survey © Crown Copyright, 100018507
There are no assets within this map area

(c) Crown copyright and database rights 2021 Ordnance Survey 100019209 | Scale: 1:1250 | Date: 17/09/21 | Telecoms Plan A3

Data updated: 01/08/21 | Map Centre: 332836,350979 | Our Ref: 651821 - 1 | Powered by digdat

Duct, Trench — Chamber / Pole — Cabinet

utilitysitesearch@outlook.com

WREXHAM

Virgin media

Important Information - please read The purpose of this plan is to identify Virgin Media apparatus. We have tried to make it as accurate as possible but we cannot warrant its accuracy. In addition, we caution that within Virgin Media apparatus there may be instances where mains voltage power cables have been placed inside green, rather than black ducting. Further details can be found using the "Affected Postcodes.pdf", which can be downloaded from this website. Therefore, you must not rely solely on this plan if you are carrying out any excavation or other works in the vicinity of Virgin Media apparatus. The actual position of any underground service must be verified by cable detection equipment, etc. and established on site before any mechanical plant is used. Accordingly, unless it is due to the negligence of Virgin Media, its employees or agents, Virgin Media will not have any liability for any omissions or inaccuracies in the plan or for any loss or damage caused or arising from the use of and/or any reliance on this plan. This plan is produced by Virgin Media Limited (c) Crown copyright and database rights 2021 Ordnance Survey 100019209.

Dear Sir/Madam

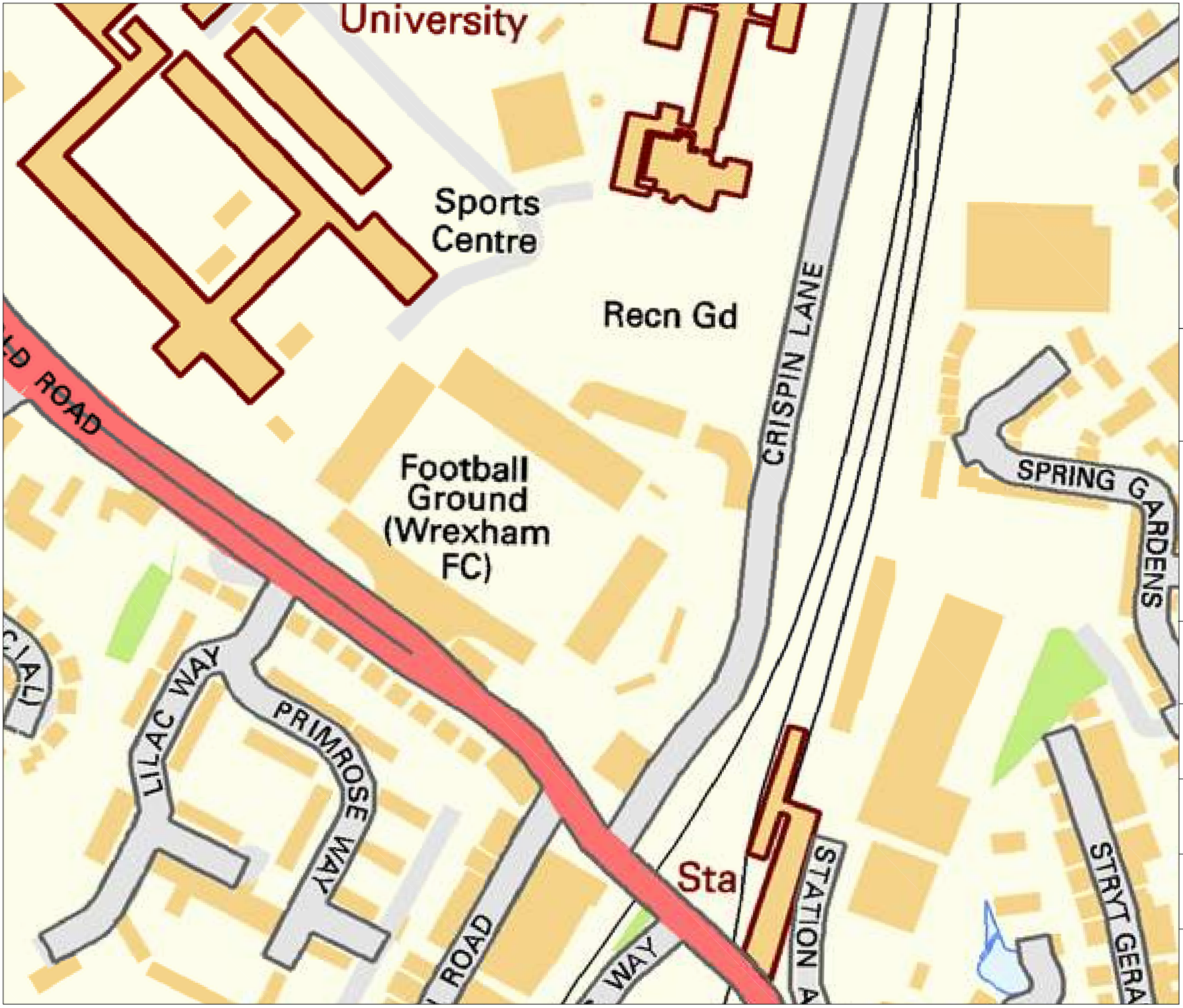
Verizon is a licensed Statutory Undertaker.

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

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

Yours faithfully

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



bitmap_layout select_raster

LEGEND

EXISTING PLANT

EXISTING PLANT

bitmap_layout select_raster

Head Office
CityFibre Holdings Ltd
15 Bedford Street,
London,
WC2E 9HE

Tel: 0845 293 0774
Web: www.cityfibre.com

Asset Office
CityFibre Holdings Ltd,
Rutherford House,
Birchwood,
Warrington,
WA3 6ZH

Email: asset.team@cityfibre.com

Disclaimer:

Information shown on this plan is for general guidance only. No warranty is made as to its accuracy.
This plan must not be solely relied upon in the event of excavation or other works being carried out in the vicinity of Cityfibre plant.
No liability of any kind is accepted by Cityfibre, its agents or servants for any error, omission, discrepancy or deviation. This information is valid for the date printed.

Project

Plant Enquiry

Drawing

Existing Plant

Drawn by:

smallworld

Date: 20/09/2021

Drawing No.

CFH_EP_000001

Revision

001

Scale: 1:2500

A4

0m 20m 40m 60m 80m 100m

N

Dear Sir/Madam,

Please note that KCOM only own apparatus within the Public Highway in East Yorkshire and Lincolnshire.

Apparatus in the Public Highway, which was previously owned by KCOM outside of East Yorkshire and Lincolnshire, is now owned by City Fibre.

All future Plant enquiries or NRSWA C2, C3 or C4 Inquiries, regarding this apparatus outside of East Yorkshire and Lincolnshire, should be directed to City Fibre not KCOM.

Please forward your enquiry to asset.team@cityfibre.com

PLEASE NOTE THIS EMAIL HAS NOT BEEN FORWARDED

Regards

Jarod Gillespie

Apprentice Planning and Design Consultant– Field Engineering

Tel: +44 (0)3316 646302

Mob: +44 (0)7484 032622

Email: jarod.gillespie@kcom.com

Web: www.kcom.com

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

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

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

Asset Manager - Utility Assets Ltd

Thank you for your recent enquiry regarding your proposed work at the above location.

euNetworks Fiber UK Limited do not have plant in the vicinity of your proposed works and no strategic additions to our existing network are envisaged in the immediate future.

This information is only valid for a period of 3 months so, if your start date is 3 months or more from the date of this email, please re-apply for updated information at our generic email address: plantenquiries@psgservices.co.uk.

Kind regards

ALL PLANT ENQUIRIES AND DIVERSIONARY REQUESTS SHOULD BE ADDRESSED BY EMAIL TO THE OPERATIONS

TEAM AT plantenquiries@psgservices.co.uk **, WITH A PLAN AND FULL POSTAL ADDRESS OF YOUR ENQUIRY,**

THANK YOU

For and on behalf of euNetwork Fiber UK Limited

Regards

Stuart Green

M 07796 696810 | **T** 01257 433166 | **E** plantenquiries@psgservices.co.uk

Telecommunications Survey, Planning, Engineering & GIS Services

---

GTC Apparatus Not Found In Search Area

Our Plant Enquiry Service

Thank you for your enquiry concerning apparatus in the vicinity of your proposed work. GTC can confirm that we have no apparatus in the vicinity but please note that other asset owners may have and ensure all utility owners have been consulted. For your records, the search area is shown in the attached map.

Please note our assets now include those owned and operated by:

- GTC Pipelines Limited
- Independent Pipelines Limited
- Quadrant Pipelines Limited
- Electricity Network Company Limited
- Independent Power Networks Limited
- Independent Water Networks Limited
- Open Fibre Networks Limited
- Independent Community Heating Limited

If you have any queries or require any further information please do not hesitate to contact us.

Your sincerely,
GTC Plant Enquiry Service.

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

Good Morning,

We can confirm we do not have anything in this area at present.

Thank you for your email.

Please do not hesitate to contact me with any queries

Victoria Coles
Eclipse Power
Office: +44 (0) 1234 486487
Mobile: +44 (0) 7860927197

www.eclipsepower.co.uk

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Good Morning,

I can confirm there are no assets in the area.

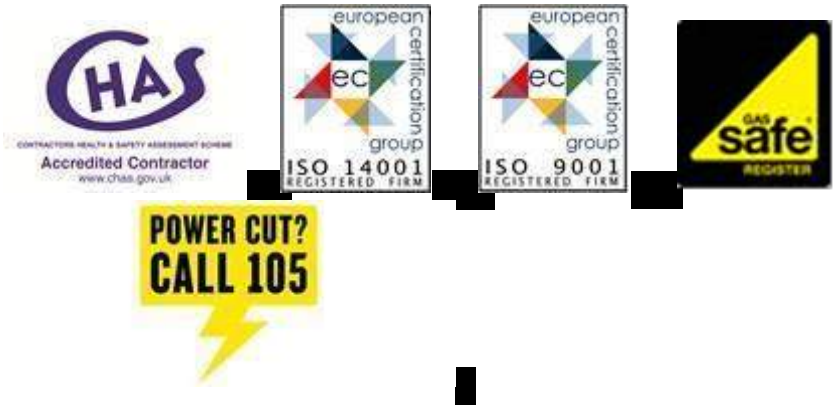
Kind Regards

Claire Phillips

Distribution Administration Assistant

0844 800 1813





Harlaxton
Energy Networks Limited

Energy Assets

Hello,

Thank you for your email.
I can confirm we have no assets in the area.

Kind regards,

Leep Electricity Networks Ltd & Leep Utilities have no apparatus in this area.

Regards
Diane

Leep Electricity Networks
Take a look at our **website**

e: lenl@leeputilities.co.uk
w: **www.leeputilities.co.uk**
Privacy Notice

Leep Holdings (Utilities) Limited : Registered in England & Wales : Company Number 06729159 : Registered Office: The Greenhouse, MediaCity UK, Salford, M50 2EQ.

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Dear Sir or Madam,

With reference to your plant enquiry below, we can confirm that SOTA do not have any apparatus within the immediate proximity of your proposed works.

If you require any further information, please do not hesitate to contact us.

Please note that this response is only valid for 3 months. If your works do not commence within this time period, please resubmit your plant enquiry for assessment before any works commence.

Regards

Plant Enquiries Dept.
Instalcom Limited
Borehamwood Ind. Park
Rowley Lane
Borehamwood
WD6 5PZ

Office: +44 (0)208 731 4613
Fax: +44 (0)208 731 4601
Email: sota.plantenquiries@instalcom.co.uk
Web: http://www.instalcom.co.uk

Dear Sir/Madam

Turner & Townsend Project Management are appointed on behalf of MBNL to conduct Plant (apparatus) Searches in accordance with the relevant NRSWA Act 1991- Diversionary Works legislation. These searches considered plant belonging to EE (T-Mobile and Orange sites) and the HG3 mobile telecommunication networks.

Further to your plant enquiry please see the response below to the NRSWA request submitted.

MBNL do not have any plant that would be affected by the proposed work please see attached. Should you have any further queries please use the contact details below.

PS: Please can you send all future Plant enquiries for EE or H3G to this email address mbnlplantenquiries@turntown.com

Thank you,

Kind regards,

MBNL SHQE Team

Turner & Townsend
t: 0121 262 3663 | www.turnerandtownsend.com





To whom it may concern

With regard to your request for details of existing services in the specified area;

We can confirm that, based on the details provided to us, we have no buried plant or equipment in the identified area.

ENGIE Document Control
Urban Energy
UK & Ireland
NRSWA.UK@engie.com

Cofely GDF SUEZ is now ENGIE

engie.co.uk

Kings Yard,
1 Waterden Road,
Queen Elizabeth Olympic Park
London E15 2GP - UK

Please consider the environment before printing this message

Thank you for your correspondence enclosing details of your proposals as per your reference below.

Our client's apparatus, Teliasonera, is not located within the vicinity of the above reference and we therefore have no further interest in this current location.

Please note that all enquiries relating to the Teliasonera line plant should be forwarded to:

By post – to, telent,

Teliasonera line plant enquiries,

Mayne House,

Fenton Way,

Basildon,

Essex

SS15 6TD

By email - to, telenttelia.plantenquiries@telent.com

By phone – to, 01268 269096

Yours faithfully

Telent CCO

Basildon

Dear Sir,

Our records show we have no equipment at this location.

Linda
Linda Francomb Delivery Administrator
Clear Channel United Kingdom Unit 9, Newtons Court, Galleon Boulevard, Crossways Business Park Park, Dartford, Kent DA2 6QL
D 0044 1322 620 707
M N/A



Disclaimer

Disclaimer

This record pack has been compiled from information provided by statutory utility providers.

Whilst every effort has been made to ensure the accuracy

and completeness of information included within this report,

SUBSITE SURVEYS Ltd

take no responsibility for erroneous or missing historic record data which has been supplied

to us from a utility provider. Due to the nature of record

information being indicative rather than accurate it is advisable

for a full site utility survey to be undertaken

prior to any groundwork's or construction.

Subsite Surveys Ltd

Willow House
Low Lane, Braithwaite, Doncaster, South Yorkshire, DN7 5SS

M: +44 (0)7427 O: 401344 +44 (0)1302 391348

www.subsitesurveys.co.uk

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