

## Utilities Planning Statement

### Naylor Street Proposed Development – Phase 2

#### Introduction

Thomasons Limited have been appointed to prepare a Utilities Statement in support of a new Planning Application for a residential development on land between Naylor and Oriel Street in Liverpool. The site originally accommodated heavy industry and there were a number of small units across the site.

The proposed development consists of 5 interconnecting residential blocks with some commercial development on the ground floor. The blocks range from 6 to 11 storeys containing 240 residential apartments with a mix of 1/2 bedroom and studio apartments. The ground floor will consist of 13 commercial units and associated road, drainage infrastructure and underground parking

The 13 no. commercial developments to the ground floor of the apartment blocks and are expected to have a min of 2 bathroom/toilets per commercial unit.

For further site layout details refer to **Appendix A** for proposed floor plans and site location.

#### Utilities Records Search

A detailed utility records search has been undertaken for the site and the surrounding area to determine what utility assets exist on or near to the proposed site. As part of the search a total of 33 utility asset companies were identified who geographically could own and operate assets in or near to the development area. Each have been contacted to provide details of assets that may be affected as part of the proposed development.

For further details of the utility's asset information received refer to **Appendix B**.

#### Utilities Diversions

A review of the Desktop Study and historic records indicate that the site is currently occupied by informal car parking, however a number of buildings, factories and workshops have previously occupied this site. Following a review of the utility records provided, several utilities may be affected by the proposed development in terms of diversion works and network capacity demand and further dialogue should be undertaken with the individual utility companies.

The following gives a summary of the utilities which are affected and the loading on each of the service provisions for the new development.

### **Load Assessment**

A load assessment was undertaken for the residential element based on the plan areas and the house unit mix. The detailed breakdown can be found in **Appendix C** of this document and is summarised as follows;

**Table 1 – Residential Loadings**

<b>Service</b>	<b>Average Loading</b>	<b>Peak Loading</b>
Electricity	85 kVA	255.4 kVA
Gas	654 kW	1963 kW
Foul Water	1.8 l/s	10.6 l/s
Potable Water	1.8 l/s	5.3 l/s

The commercial unit loading is based on a percentage ratio of the residential floor area to the commercial floor area and a conservative percentage of 10% is used and is summarised as follows;

**Table 2 – Commercial Loadings**

<b>Service</b>	<b>Average Loading</b>	<b>Peak Loading</b>
Electricity	8.5 kVA	25.5 kVA
Gas	65.4 kW	196 kW
Foul Water	0.18 l/s	1.0 l/s
Potable Water	0.18 l/s	0.53 l/s

### **New Utility Infrastructure**

The utilities highlighted in the load study above will be required as a minimum for the development. Any utility infrastructure not catered for in the load assessment above is highlighted below and discussions will need to be undertaken with the utility operator for supply of the site.

### **Water (potable)**

There are pressurized potable water mains that run in the footway in Naylor Street and Oriel Street from sizes ranging from 90mm PE to 180mm PE. See **Appendix B** for location and details.

### **LV Electricity**

There is currently an existing network of LV cabling to both sides of Paul Street, Oriel Street, Naylor Street and St Bartholomew Road. There is also an LV cable that runs along the existing access road with several LV cables that cross the access road within the site. See **Appendix B** for details.

### **EHV / HV Electricity**

There is a 132kV EHV located in Paul Street that runs in the footway/carriageway.

There is a 33kV EHV located in Paul Street that runs in the footway on the side of the development.

There is a HV cable located in Paul Street that runs in the footway for the full length. A HV cable is also located in Oriel Street however it runs from an existing substation towards Vauxhall Road and does not affect the development site.

See **Appendix B** for location and details.

### **Gas**

There are low pressure Gas mains located in Oriel Street and Naylor Street, see **Appendix B** for location and details.

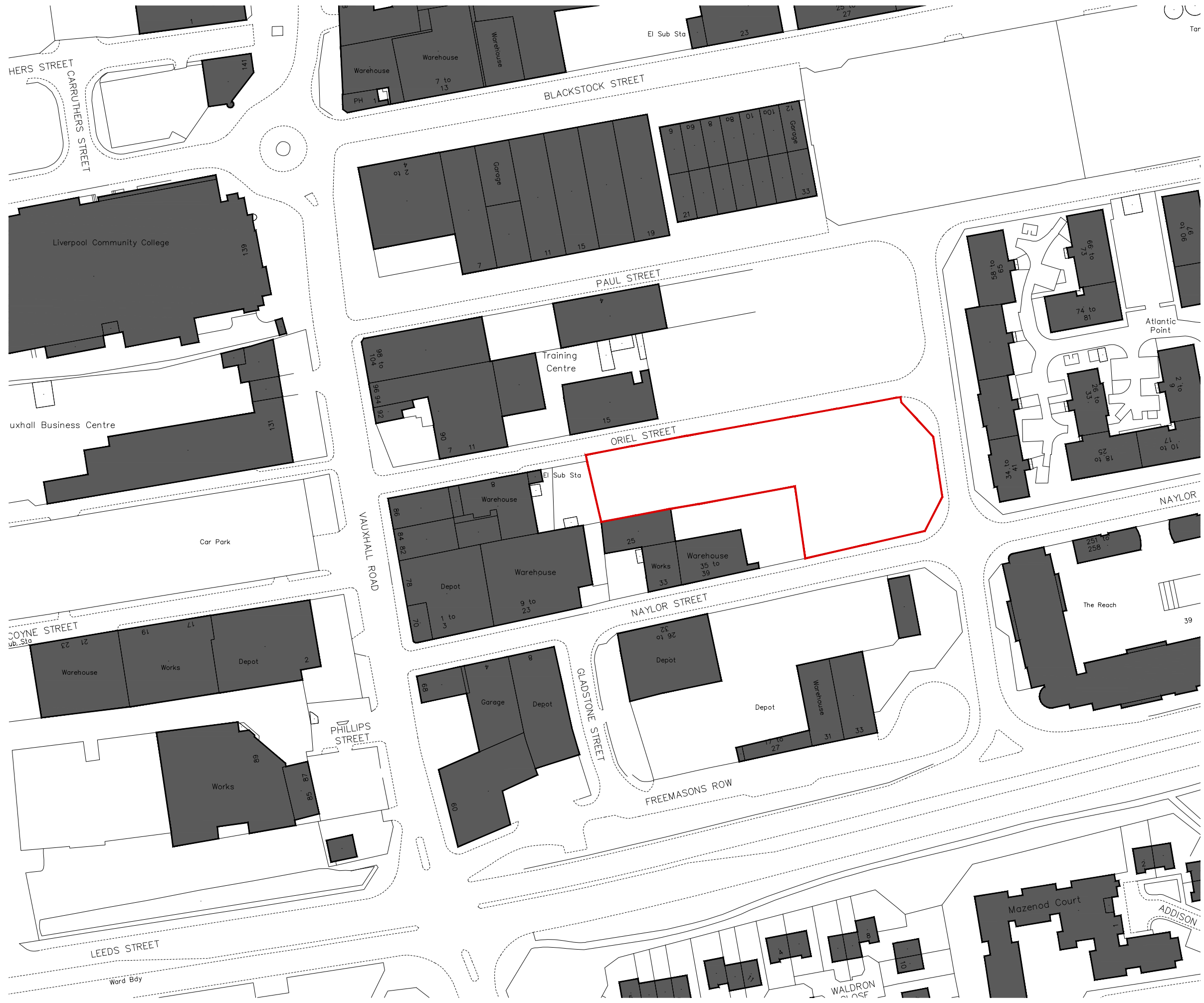
### **Telecommunications**

BT (Openreach) infrastructure is located in Paul Street / Oriel Street and Naylor Street, see **Appendix B** for location and details.

## **Appendix A**

### Proposed Site Layout Details





All dimensions to be checked on site.  
Figured dimensions to be read in preference to scaled.

This drawing is copyright and remains the property of SMITH YOUNG Architecture Ltd unless otherwise agreed.

SMITH YOUNG Architecture Ltd accepts no responsibility for any unauthorised amendments to the drawing and does not permit unauthorised copying of the drawing.

Revisions / Notes:

KEY

Site Boundary

N

Scale Bar (metres)

0102550

Job Title:	NAYLOR STREET PHASE 1		
Purpose:	PLANNING		
Client:	SIMTH YOUNG ARCHITECTURE LTD		
Date:	24/01/2018		
Drawing Title:	LOCATION PLAN AS EXISTING		
Drawn By:	MIS	Checked By:	MJY
Scale:	1:1250	Paper Size:	A3
Job Number:	19.021	Drwg No:	001
		Rev:	

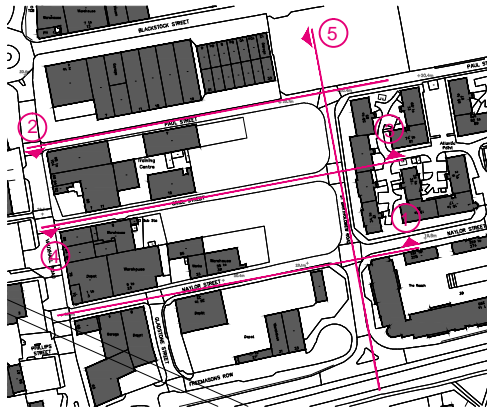
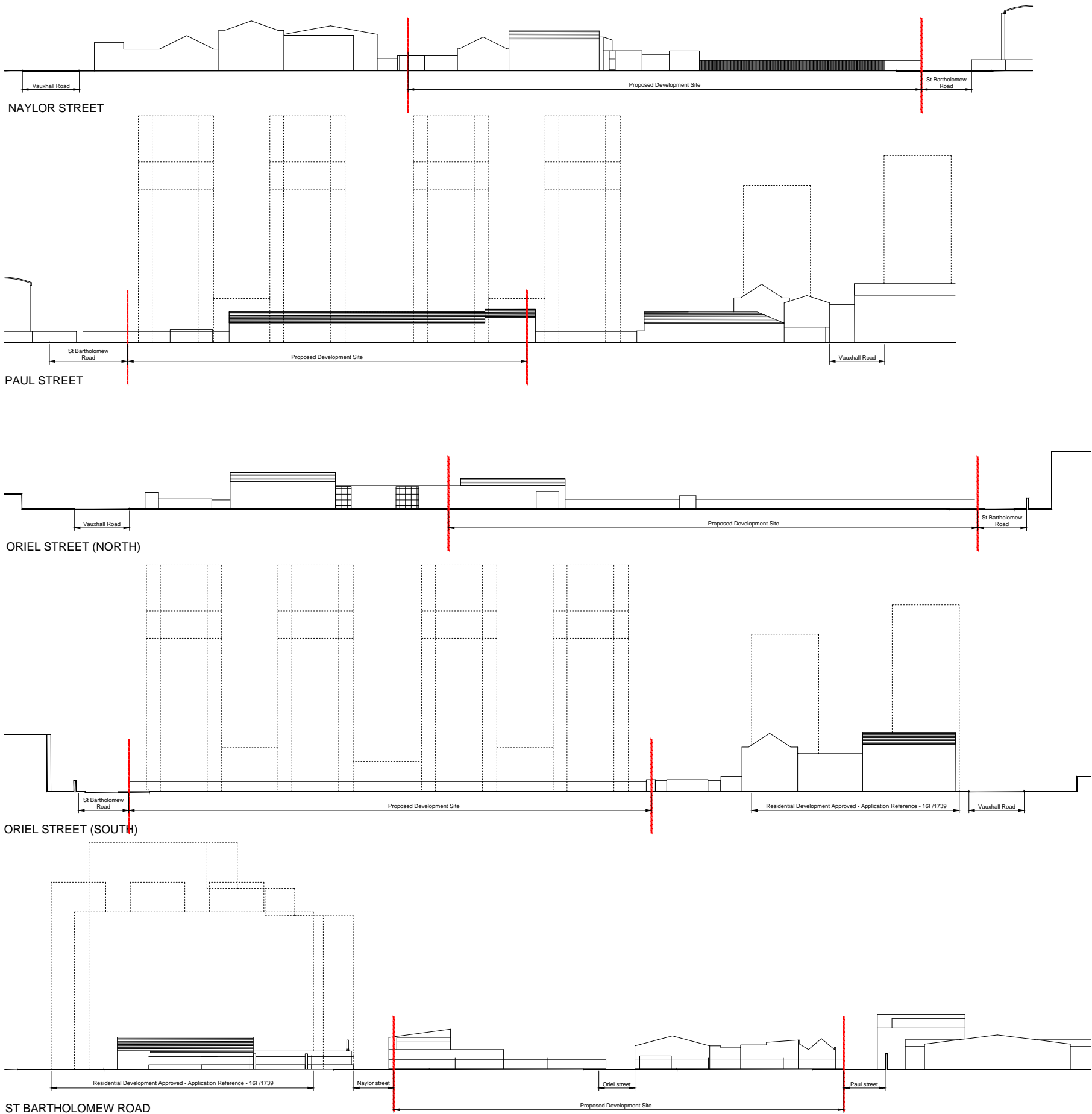
LOCATION PLAN AS EXISTING @ 1:1250

All dimensions to be checked on site.  
Figured dimensions to be read in preference to scaled.

This drawing is copyright and remains the property of SMITH YOUNG Architecture Ltd unless otherwise agreed.

SMITH YOUNG Architecture Ltd accepts no responsibility for any unauthorised amendments to the drawing and does not permit unauthorised copying of the drawing.

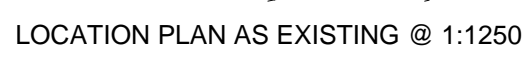
Revisions / Notes:



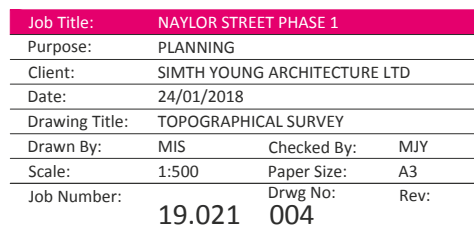
KEY  
Site Boundary



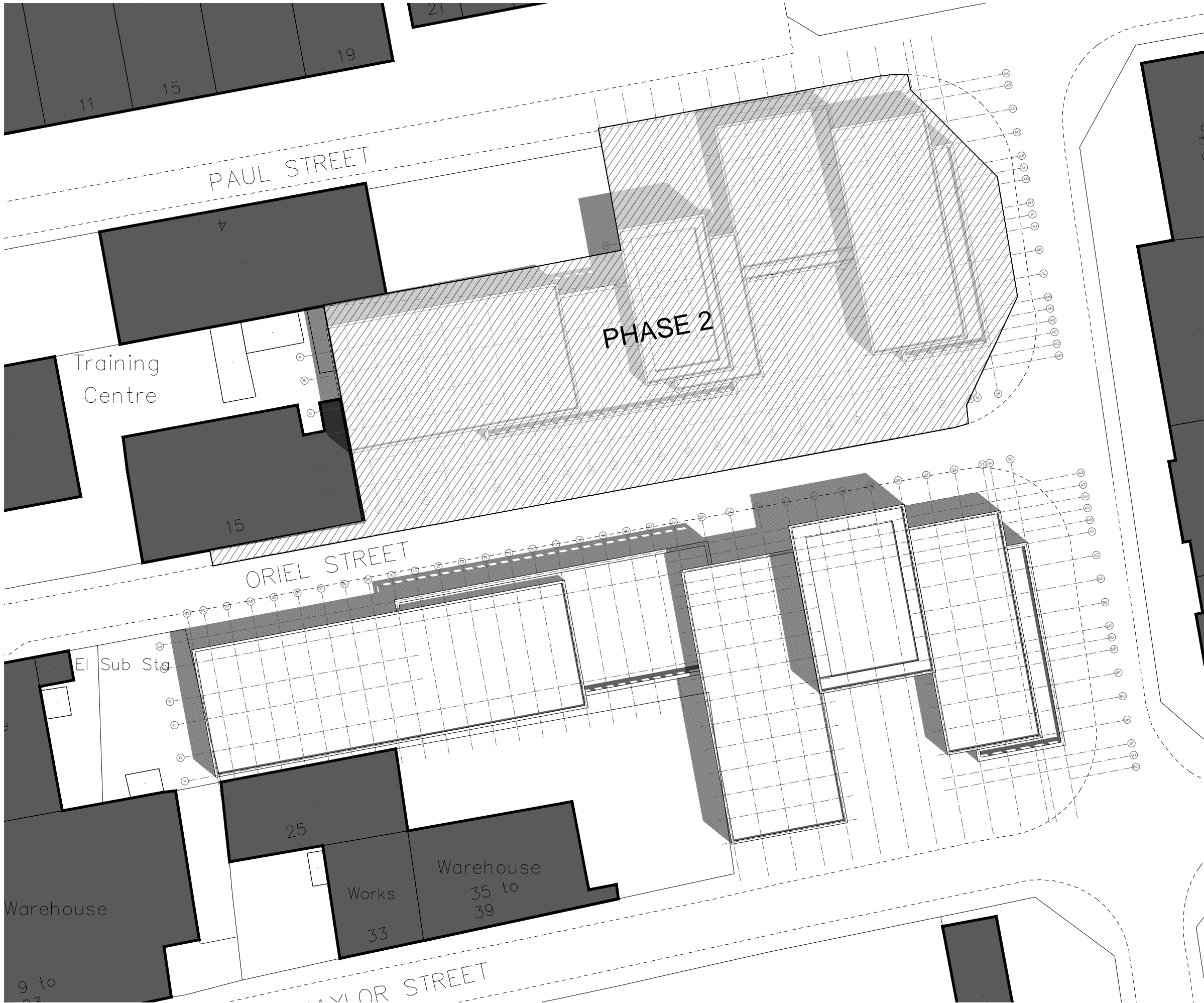
Job Title:	NAYLOR STREET PHASE 1		
Purpose:	PLANNING		
Client:	SIMTH YOUNG ARCHITECTURE LTD		
Date:	24/01/2018		
Drawing Title:	CONTEXT ELEVATIONS AS EXISTING		
Drawn By:	MIS	Checked By:	MJY
Scale:	1:1000	Paper Size:	A3
Job Number:	19.021	Drwg No:	003
		Rev:	



Revisions / Notes:







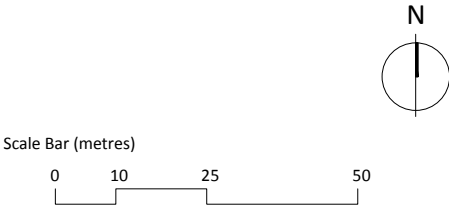
LOCATION PLAN AS PROPOSED @ 1:500

All dimensions to be checked on site.  
Figured dimensions to be read in preference to scaled.

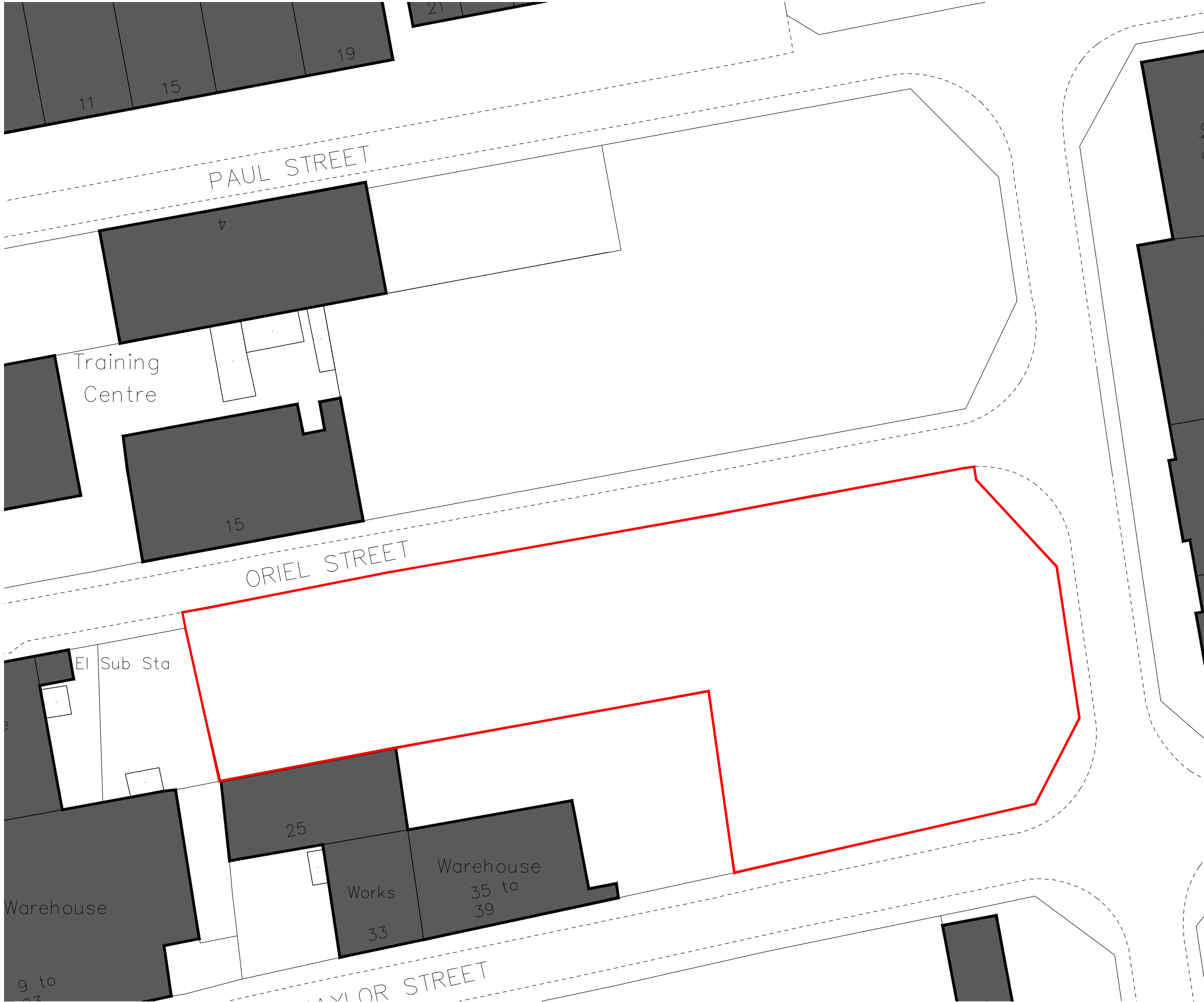
This drawing is copyright and remains the property of SMITH YOUNG Architecture Ltd unless otherwise agreed.

SMITH YOUNG Architecture Ltd accepts no responsibility for any unauthorised amendments to the drawing and does not permit unauthorised copying of the drawing.

Revisions / Notes:



Job Title:	NAYLOR STREET PHASE 1		
Purpose:	PLANNING		
Client:	SIMTH YOUNG ARCHITECTURE LTD		
Date:	24/01/2018		
Drawing Title:	SITE PLAN AS PROPOSED		
Drawn By:	MIS	Checked By:	MJY
Scale:	1:500	Paper Size:	A3
Job Number:	19.021	Drwg No:	005
		Rev:	



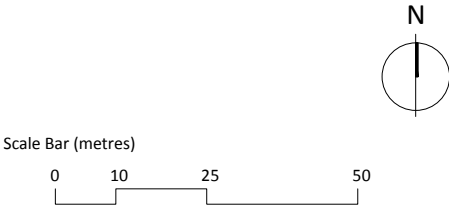
LOCATION PLAN AS EXISTING @ 1:500

All dimensions to be checked on site.  
Figured dimensions to be read in preference to scaled.

This drawing is copyright and remains the property of SMITH YOUNG Architecture Ltd unless otherwise agreed.

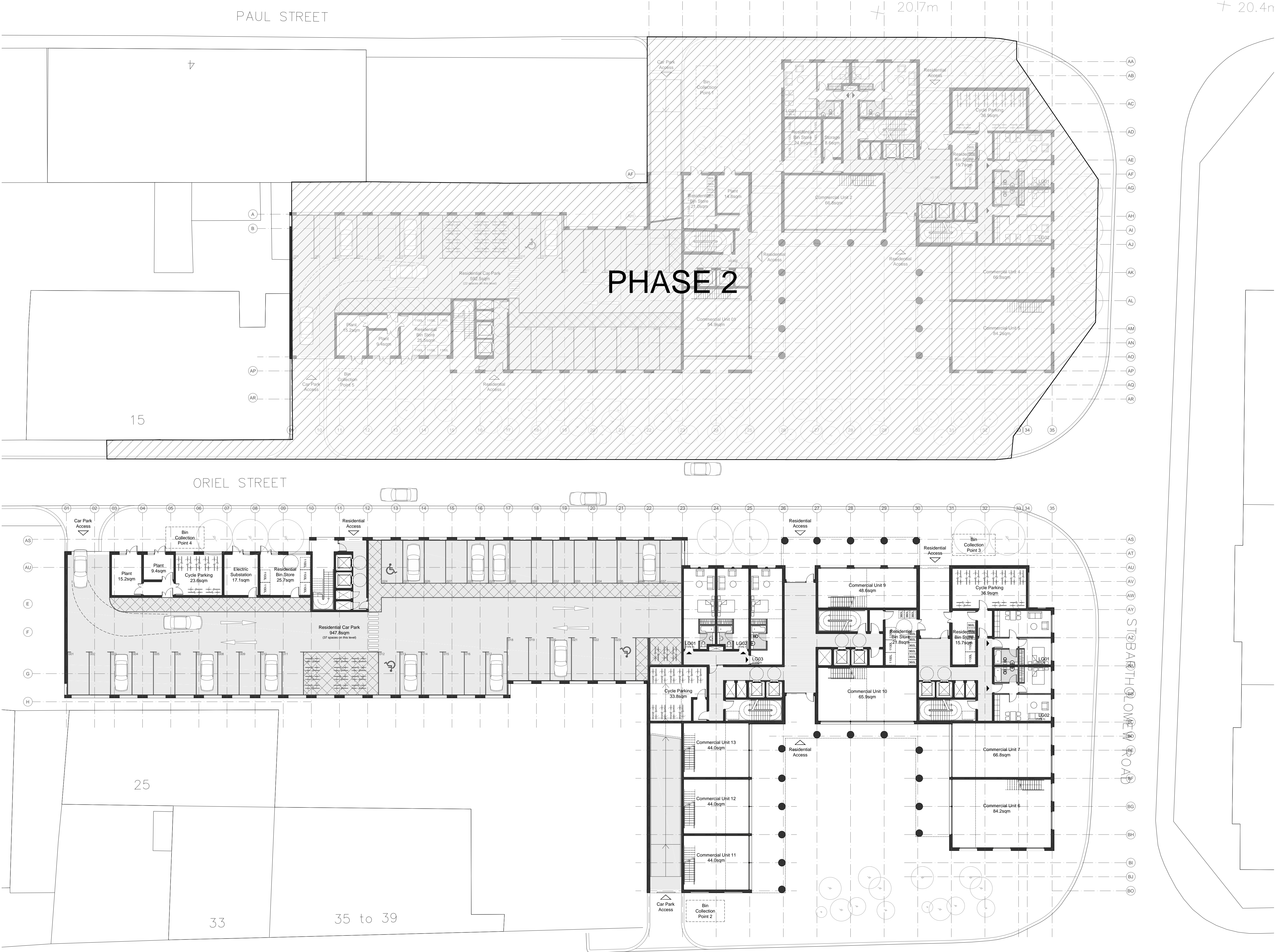
SMITH YOUNG Architecture Ltd accepts no responsibility for any unauthorised amendments to the drawing and does not permit unauthorised copying of the drawing.

Revisions / Notes:



Job Title:	NAYLOR STREET PHASE 1		
Purpose:	PLANNING		
Client:	SIMTH YOUNG ARCHITECTURE LTD		
Date:	09/05/2019		
Drawing Title:	SITE PLAN AS EXISTING		
Drawn By:	MIS	Checked By:	MJY
Scale:	1:500	Paper Size:	A3
Job Number:	19.021	Drwg No:	007

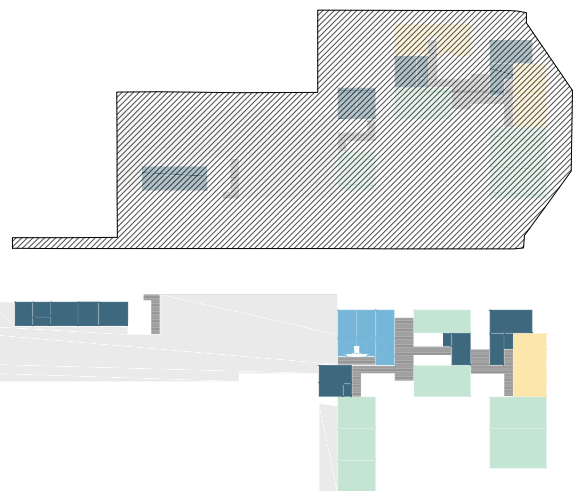




Figured dimensions to be read in preference to scaled.  
This drawing is copyright and remains the property of SMITH YOUNG Architecture Ltd unless otherwise agreed.  
SMITH YOUNG Architecture Ltd accepts no responsibility for any unauthorised amendments to the drawing and does not permit unauthorised copying of the drawing.

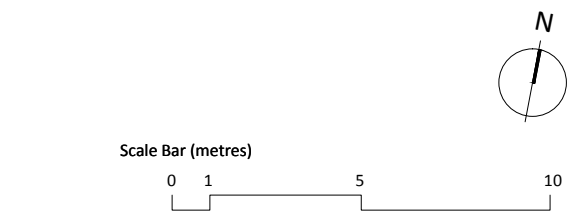
Revisions / Notes:

LOWER GROUND FLOOR SCHEDULE OF ACCOMMODATION			
<b>BLOCK E</b>			
Studio	00no.		
1 Bed	00no.		
2 Bed	00no.		
Sub Total Apartments = 00no			
<b>BLOCK F</b>			
Studio	03no.		
1 Bed	00no.		
2 Bed	00no.		
Sub Total Apartments = 03no			
<b>BLOCK G</b>			
Studio	00no.		
1 Bed	00no.		
2 Bed	00no.		
Sub Total Apartments = 00no			
<b>BLOCK H</b>			
Studio	00no.		
1 Bed	02no.		
2 Bed	00no.		
Sub Total Apartments = 02no			
<b>TOTALS</b>			
Studio	03no.		
1 Bed	02no.		
2 Bed	00no.		
Sub Total Apartments = 05no			



Lower Ground Floor Accommodation Plan @ 1:1500

KEY	
Approved Development	
Site Boundary	
Commercial Space	
Support Areas	
Circulation Areas	
Studio (30m <sup>2</sup> )	
1 Bed Apartment (38m <sup>2</sup> )	
2 Bed Apartment (58m <sup>2</sup> )	



Job Title:	NAYLOR STREET PHASE 1		
Purpose:	PLANNING		
Client:	SMITH YOUNG ARCHITECTURE LTD		
Date:	24/01/2018		
Drawing Title:	LOWER GROUND FLOOR PLAN		
Drawn By:	MIS	Checked By:	MIY
Scale:	1:200	Paper Size:	A1
Job Number:	19.021	Drwg No:	101
Rev:			





Lower Ground Floor Accommodation Plan @ 1:150

**KEY**

Job Title:	NAYLOR STREET PHASE 1		
Purpose:	PLANNING		
Client:	SMITH YOUNG ARCHITECTURE LTD		
Date:	24/01/2018		
Drawing Title:	UPPER GROUND FLOOR PLAN		
Drawn By:	MIS	Checked By:	MJY
Scale:	1:200	Paper Size:	A1
Job Number:	19 021	Drwg No:	102
		Rev:	

## **Appendix B**

### Utility Information





# Groundsure Premier Utilities

**Oriel Street, Liverpool**

## LOCATION INTELLIGENCE

To access Groundsure's market leading environmental solutions,  
please call **08444 159 000** or email **[info@groundsure.com](mailto:info@groundsure.com)**  
**[WWW.GROUNDSURE.COM](http://WWW.GROUNDSURE.COM)**





## Oriel Street, Liverpool

Oriel Street  
Vauxhall  
Liverpool  
Merseyside  
L3 6DU

**23/02/2018**

PROJECT NO.

**603546**

ISSUE NO.

**1**

STATUS

**For Information**

### LOCATION INTELLIGENCE

To access Groundsure's market leading environmental solutions,  
please call **08444 159 000** or email **info@groundsure.com**  
**WWW.GROUNDSURE.COM**

# Introduction

**This report assesses the potential constraints presented by the existing utility infrastructure both within the boundary and in the vicinity of the search area.**

The report is based on the information provided by the client about the location of the search area and the information provided by the utilities about their existing plant and networks. The information contained in this report is based on desk research only.

## What is a utility constraint?

We use the term constraint to indicate that there may be limitations or prohibitions on designs and planned works due to the presence of utility apparatus. To overcome these can be costly and time-consuming. Depending on the legal rights and statutory powers of the utility the costs may have to be borne by the applicant/developer.

## Report interpretation

We have developed a simple traffic light mechanism to present site constraints based on a red/amber/green evaluation;



Red – site constraints exist due to the presence of utility apparatus.



Amber – site constraints may exist due to the proximity of utility apparatus.



Green – site constraints do not appear to exist.

This report confirms to QL-D of PAS 128:2014 - Specification for Underground Utility Detection, Verification and Location. To obtain further detail on utility locations consider site reconnaissance (QL-C), detection (QL-B) and verification (QL-A) as recommended under 'Important Information'.

Prepared by

Signed off by

Michael Riley

Martin Darlison



Cert No 6206  
ISO 9001



*Premier Energy Services Ltd has taken all reasonable steps, within the timescales, to obtain the most robust information in this report but accepts no liability for the accuracy of such information or report and in addition to any limitation of liability under its Standard Terms and Conditions. These services are provided subject to our standard Scope of Services, the Supplementary Terms and our Standard Terms and Conditions.*

*This report is for the private and confidential use of the client for whom the report is undertaken and should not be reproduced in whole or in part or relied upon by third parties for any use whatsoever without the express authority of Premier Energy Services Ltd.*

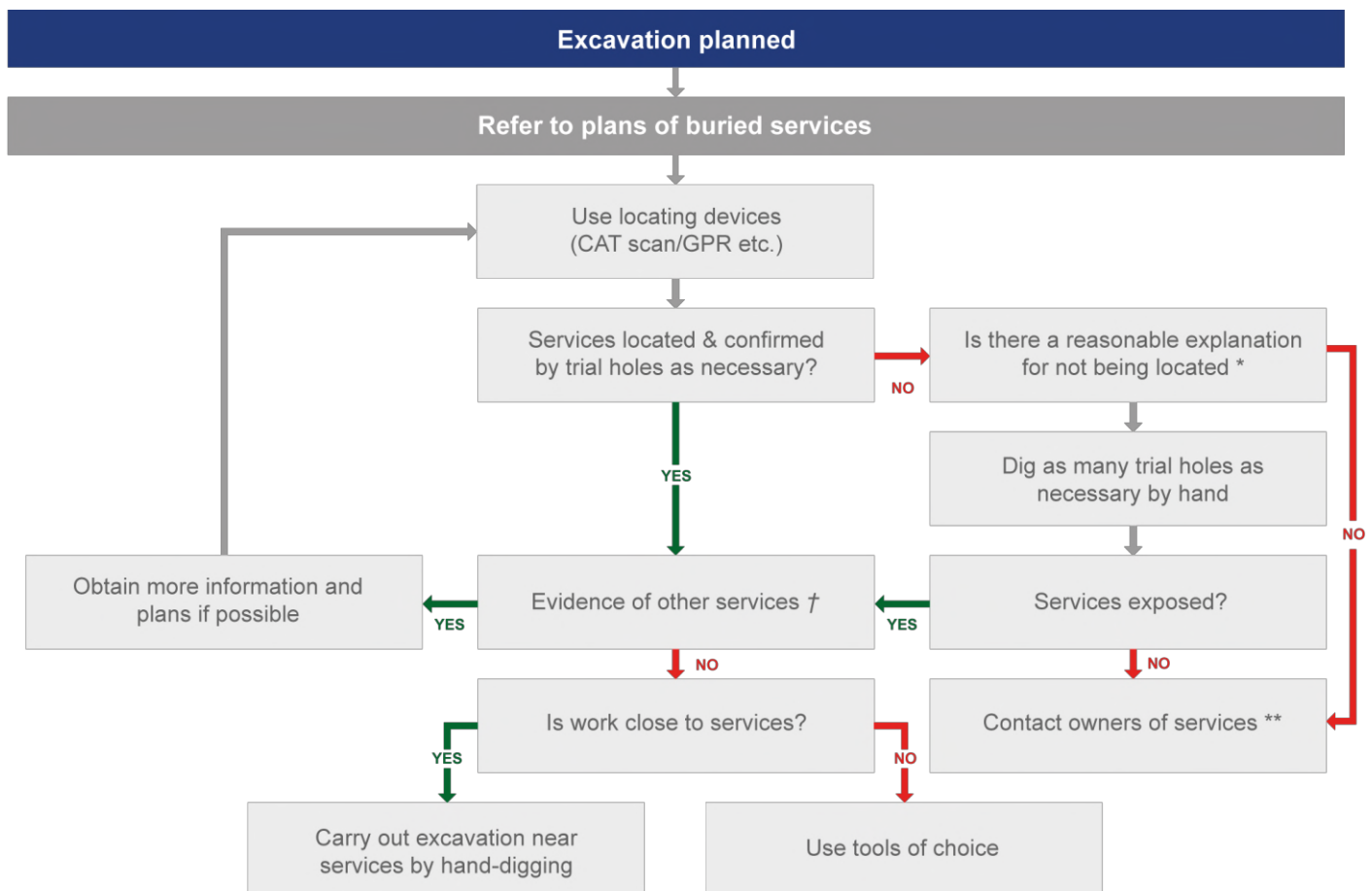
## LOCATION INTELLIGENCE

To access Groundsure's market leading environmental solutions,  
please call **08444 159 000** or email **info@groundsure.com**  
**WWW.GROUNDSURE.COM**

## Important Information

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 when excavating in a road or footway. However it:

- Describes only part of the process; it does not, for example, describe planning the work, including reference to plans at the design stage;
- Is a simplified picture and not a substitute for reading the text;
- Is not a substitute for a suitable and sufficient risk assessment;
- Does not take account of a number of other situations, e.g. cable embedded in concrete or those situations where resiting services is proposed.



\* 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.

## Important Information

### 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 2015.
- PAS 128:2014 Specification for Underground Utility Detection, Verification and Location.

### 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.



## Enclosures

Type	Company	In Vicinity	Desk Research	Awaiting Response
Electricity	SP Energy Networks			
Water	United Utilities			
Drainage	United Utilities			
Gas	Cadent			
Openreach	Openreach (formerly BT)			
Virgin Media	Virgin Media (Not requested by client)			
Independents	GTC			
	Energetics			
Comms.	Vodafone Ltd (Not requested by client)			
	Colt			
	TATA			
	KPN			
	SKY Telecommunications			
	Interoute			
	SOTA			
	Instalcom (multiple co's)			
	Verizon			
	Vtesse Networks (Not requested by client)			



	TeliaSonera		
	euNetworks		✓
	SSE Telecoms		✓
	CityFibre		✓
	Mast Data		
Tunnels & Pipelines	LinesearchbeforeUdig (Gamma in vicinity)		
	BT Deep Level Tunnels		
	Thames Water Ring Main		✓
	Thames Tunnel		✓
	Post Office Tunnels		✓
Transport	Docklands Light Railway		✓
	London Underground		✓
	LUL HV Power Assets		✓
	Crossrail		✓
	Network Rail		✓
	Transport for London		✓
	Trafficmaster		✓

## LOCATION INTELLIGENCE

To access Groundsure's market leading environmental solutions,  
please call **08444 159 000** or email **info@groundsure.com**  
**WWW.GROUNDSURE.COM**

## Optional Searches

### Virgin Media

You have chosen not to include a Virgin Media enquiry in your search. Virgin Media have built network extensively across the urban areas of the UK and are common in the South East. We often find they are affected by our enquiries. We recommend that you should only decide not to search Virgin Media where you are sure that they are not in your area of interest or in the event that you consider them as a cost disproportionate to the risk.

Please contact us if you wish to have Virgin Media searched regardless at an additional charge.

### Vodafone

You have chosen not to include a Vodafone enquiry in your search. We find that Vodafone are only in vicinity in around 10% of cases nationally but this number increases further in the South East and London.

Please contact us if you wish to have Vodafone searched regardless at an additional charge.

### Vtesse Networks

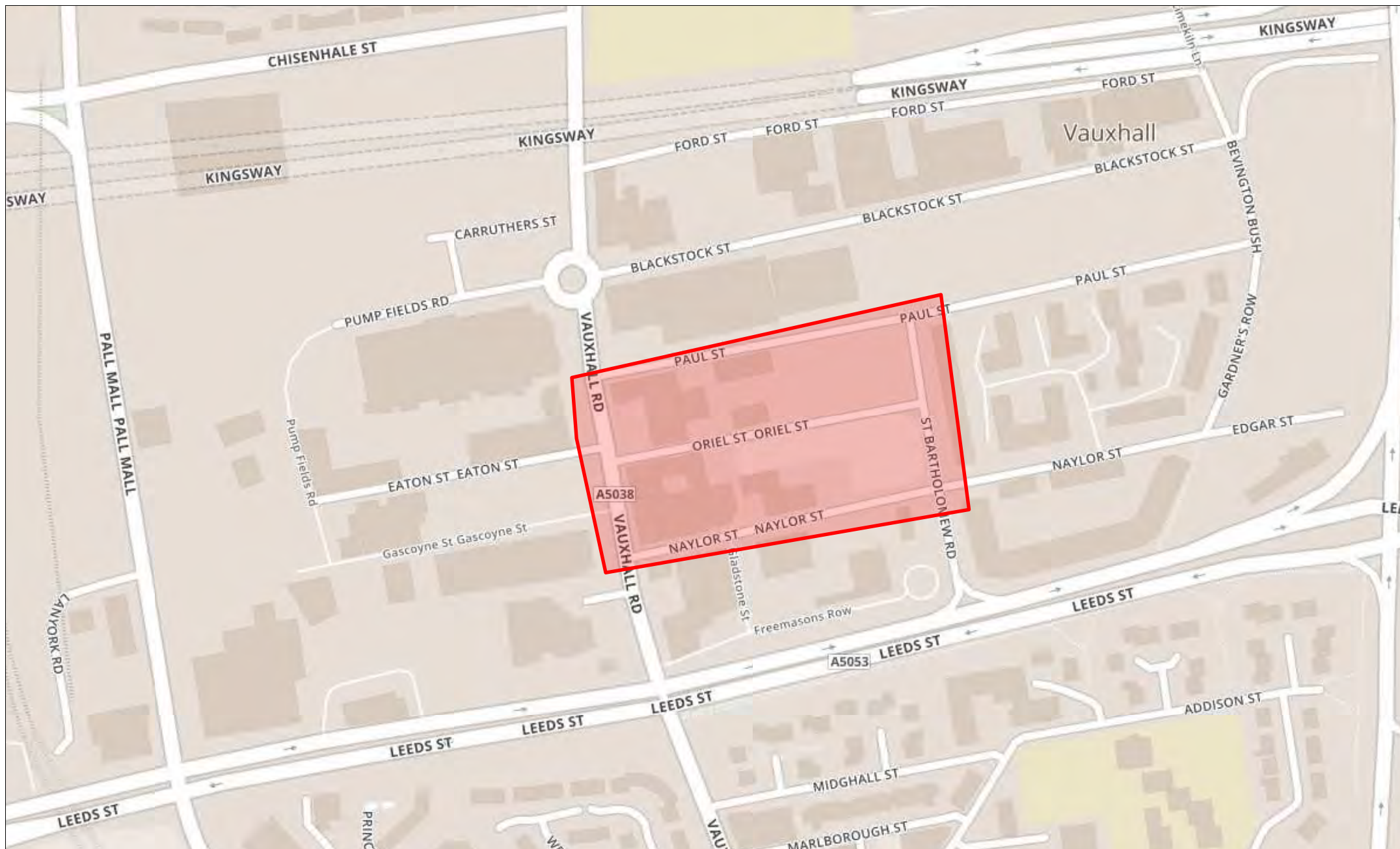
You have chosen not to include a Vtesse enquiry in your search. We find that Vtesse are in vicinity in less than 1% of enquiries and that their charge is disproportionate to the risk of making the enquiry.

Please contact us if you wish to have Vtesse searched regardless at an additional charge.



# Acronyms Key

Apparatus			
Electric			
DNO	Distribution Network Operator	KVA	Kilo Volt Amperes
IDNO	Independent Distribution Network Operator	MVA	Mega Volt Amperes
ICP	Independent Connections Provider	AC	Alternating Current
LV	Low Voltage	S/S	Substation
HV	High Voltage	PMT	Pole Mounted Transformer
EHV	Extra High Voltage		
Water			
SLO	Self Lay Organisation	WRAS	Water Regulation Advisory Scheme
Incumbent	Local Water / Water & Sewerage Company		
Gas			
GT	Gas Transporter	LP	Low Pressure
iGT	Independent Gas Transporter	MP	Medium Pressure
UIP	Utility Infrastructure Provider	IP	Intermediate Pressure
PRS	Pressure Reducing Station (Governor)	HP	High Pressure
Others			
PES	Premier Energy Services	CATV	Cable Television
PE	Polyethylene	FTTP	Fibre to the premise
DI	Ductile Iron	FTTC	Fibre to the cabinet
ST	Steel	l/min	Litres per minute
CI	Cast Iron	H&S	Health & Safety
SI	Spun Iron	HBF	House Builders Federation
HPPE	High Performance Polyethylene	TPO	Tree Preservation Order
MDPE	Medium Density Polyethylene	TBC	To be confirmed
GRP	Glass Reinforced Plastic	N/A	Not Applicable









<b>Project No:</b>	603546
<b>Date:</b>	01/02/2018
<b>Client:</b>	Groundsure
<b>Site:</b>	Oriel Street, Liverpool

<b>Postcode:</b>	L3 6DU
<b>OS Ref:</b>	SJ 34380 91296
<b>National Grid Ref:</b>	Easting: 334380      Northing: 391296

**UTILITIES**

<b>BT OPENREACH / DEEP LEVEL TUNNELS</b>			<b>SIGNED</b>
Ordinance requested?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	MR
Is the Openreach plan marked with hatching in the vicinity of the site?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
If yes, email enquiry to Openreach	Sent <input checked="" type="checkbox"/>		
Broadband check made (SI only)?	Yes <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	

<b>GAS NETWORK</b>			<b>SIGNED</b>
GT and IGT plans requested?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	MR

<b>VIRGIN MEDIA</b>			<b>SIGNED</b>
Plan requested?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	MR

**COMMUNICATIONS**

<b>SOTA</b>			<b>SIGNED</b>
Is the site in Kent?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	MR
If yes, email enquiry to McNicholas	Sent <input type="checkbox"/>		

<b>KCOM</b>			<b>SIGNED</b>
Is the site in the vicinity of Hull?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	MR
If yes, email enquiry to KCOM	Sent <input type="checkbox"/>		

<b>SSE NEOS NETWORKS</b>			<b>SIGNED</b>
Is the site in the vicinity of NEOS Networks?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	MR
If yes, print plan	Done <input type="checkbox"/>		


<b>CITYFIBRE</b>			<b>SIGNED</b>
Is the site in the vicinity of CityFibre?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	MR
If yes, enquiry to CityFibre	Done <input type="checkbox"/>		


<b>MAST DATA</b>			<b>SIGNED</b>
Is the site in the vicinity of a mast?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	MR
If yes, print details and email to operator if necessary	Done <input type="checkbox"/>		

**TUNNELS & PIPELINES**


<b>LINESEARCH</b>			<b>SIGNED</b>
Linesearch confirmed plant in vicinity?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	MR
If yes, send enquiry to plant operator	Sent <input checked="" type="checkbox"/>		

## DESK RESEARCH


<b>THAMES WATER RING MAIN</b> Is the site in the vicinity of the TWU Ring Main? If yes, ensure TWU ordnance shows Ring Main	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	SIGNED 
---	------------------------------	--	---

<b>THAMES TUNNEL</b> Is the site in the vicinity of any planned works? If yes, print details	Yes <input type="checkbox"/> Done <input type="checkbox"/>	No <input checked="" type="checkbox"/>	SIGNED 
--	---	--	---

## TRANSPORT

<b>NETWORK RAIL</b> Is the site either (a) immediately adjacent to or above major Network Rail infrastructure such as substations or (b) on land formerly owned by Network Rail? If yes, email enquiry to Network Rail	Yes <input type="checkbox"/> Sent <input type="checkbox"/>	No <input checked="" type="checkbox"/>	SIGNED 
--	---	--	---

<b>CROSSRAIL</b> Is the site in the vicinity of Crossrail? If yes, email enquiry to Crossrail	Yes <input type="checkbox"/> Sent <input type="checkbox"/>	No <input checked="" type="checkbox"/>	SIGNED 
---	---	--	---

<b>TRAFFICMASTER</b> Is the site adjacent to a Trafficmaster installation? If yes, email enquiry to Trafficmaster	Yes <input type="checkbox"/> Sent <input type="checkbox"/>	No <input checked="" type="checkbox"/>	SIGNED 
---	---	--	---

## GREATER LONDON

YES ☐ NO ☒

<b>euNETWORKS</b> Is the site in the vicinity of euNetworks plant? If yes, email enquiry to euNetworks	Yes <input type="checkbox"/> Sent <input type="checkbox"/>	No <input type="checkbox"/>	SIGNED
--	---	-----------------------------	--------

If site is within a Greater London Borough, send enquiries to: <b>TRANSPORT FOR LONDON</b> <b>LUL HV POWER ASSETS</b> <b>LONDON UNDERGROUND</b> Check Underground map before enquiry, send if required	Sent <input type="checkbox"/> Sent <input type="checkbox"/> Sent <input type="checkbox"/>	N/A <input type="checkbox"/>	SIGNED
--	---	------------------------------	--------

## INNER LONDON

YES ☐ NO ☒

<b>DOCKLANDS LIGHT RAIL</b> Is the site close to the DLR? If yes, email enquiry to DLR	Yes <input type="checkbox"/> Sent <input type="checkbox"/>	No <input type="checkbox"/>	SIGNED
--	---	-----------------------------	--------

<b>POST OFFICE TUNNELS</b> Is the site close to the tunnels? If yes, only piling or similar depth works will affect plant	Yes <input type="checkbox"/>	No <input type="checkbox"/>	SIGNED
---	------------------------------	-----------------------------	--------





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).

© Crown copyright and database rights 2018 OS 100019036

**SP ENERGY NETWORKS**  
On behalf of SP Manweb plc

SP Manweb plc  
Registered Office: c/o PowerSystems  
3 Preston Way, Preston, CH43 3ET  
Registered in England and Wales No 2360937

OVERHEAD LINE	
IN USE	---
OUT OF USE	---
ASSUMED ROUTE	---
VOLTAGE COLOUR KEY	
EHV	132kV BLUE
HV	33kV GREEN
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: 23/02/2018

SCALE: 1 : 1,250

MAP REFERENCE: 334,415 391,298

0 4.258.5 17 25.5 34 Metres



**Premier Energy Services Ltd**

**Premier House, Daux Road  
Billingshurst  
West Sussex  
RH14 9SJ**

**FAO: Michael Riley**

Dear Sirs

**Location: Oriel Street, Liverpool Oriel Street Vauxhall Liverpool L3 6DU**

I acknowledge with thanks your request dated 01/02/18 for information on the location of our services.

Please find enclosed plans showing the approximate position of our apparatus known to be in the vicinity of this site.

The enclosed plans are being provided to you subject to the United Utilities terms and conditions for both the wastewater and water distribution plans which are shown attached.

If you are planning works anywhere in the North West, please read our access statement before you start work to check how it will affect our network.

<http://www.unitedutilities.com/work-near-asset.aspx>

I trust the above meets with your requirements and look forward to hearing from you should you need anything further.

If you have any queries regarding this matter please telephone us on 0370 7510101.

Yours Faithfully,

Karen McCormack  
Property Searches Manager

**United Utilities Water Limited**

Property Searches  
Ground Floor Grasmere House  
Lingley Mere Business Park  
Great Sankey  
Warrington  
WA5 3LP

Telephone 0370 751 0101

[Property.searches@uuplc.co.uk](mailto:Property.searches@uuplc.co.uk)

Your Ref: 603546 - ORIEL STREET

Our Ref: 1357649

Date: 5/2/2018

## **TERMS AND CONDITIONS - WASTERWATER & WATER DISTRIBUTION PLANS**

These provisions apply to the public sewerage, water distribution and telemetry systems (including sewers which are the subject of an agreement under Section 104 of the Water Industry Act 1991 and mains installed in accordance with the agreement for the self-construction of water mains) (UUWL apparatus) of United Utilities Water Limited "(UUWL)".

### **TERMS AND CONDITIONS:**

1. This Map and any information supplied with it is issued subject to the provisions contained below, to the exclusion of all others and no party relies upon any representation, warranty, collateral contract or other assurance of any person (whether party to this agreement or not) that is not set out in this agreement or the documents referred to in it.
2. This Map and any information supplied with it is provided for general guidance only and no representation, undertaking or warranty as to its accuracy, completeness or being up to date is given or implied.
3. In particular, the position and depth of any UUWL apparatus shown on the Map are approximate only and given in accordance with the best information available. The nature of the relevant system and/or its actual position may be different from that shown on the plan and UUWL is not liable for any damage caused by incorrect information provided save as stated in section 199 of the Water Industry Act 1991. UUWL strongly recommends that a comprehensive survey is undertaken in addition to reviewing this Map to determine and ensure the precise location of any UUWL apparatus. The exact location, positions and depths should be obtained by excavation trial holes.
4. The location and position of private drains, private sewers and service pipes to properties are not normally shown on this Map but their presence must be anticipated and accounted for and you are strongly advised to carry out your own further enquiries and investigations in order to locate the same.
5. The position and depth of UUWL apparatus is subject to change and therefore this Map is issued subject to any removal or change in location of the same. The onus is entirely upon you to confirm whether any changes to the Map have been made subsequent to issue and prior to any works being carried out.
6. This Map and any information shown on it or provided with it must not be relied upon in the event of any development, construction or other works (including but not limited to any excavations) in the vicinity of UUWL apparatus or for the purpose of determining the suitability of a point of connection to the sewerage or other distribution systems.
7. No person or legal entity, including any company shall be relieved from any liability howsoever and whensoever arising for any damage caused to UUWL apparatus by reason of the actual position and/or depths of UUWL apparatus being different from those shown on the Map and any information supplied with it.
8. If any provision contained herein is or becomes legally invalid or unenforceable, it will be taken to be severed from the remaining provisions which shall be unaffected and continue in full force and affect.
9. This agreement shall be governed by English law and all parties submit to the exclusive jurisdiction of the English courts, save that nothing will prevent UUWL from bringing proceedings in any other competent jurisdiction, whether concurrently or otherwise.



## WASTE WATER SYMBOLOGY



Legend			
MANHOLE FUNCTION		SEWER SHAPE	
FO	Foul	CI	Circular
SW	Surface Water	EO	Egg
CO	Combined	OV	Oval
OV	Overflow	FT	Flat Top
		RE	Rectangular
		SQ	Square
		TR	Trapezoidal
		AR	Arch
		BA	Barrel
		HO	HorseShoe
		UN	Unspecified
SEWER MATERIAL			
AC	Asbestos Cement	DI	Ductile Iron
BR	Brick	VC	Vitrified Clay
CO	Concrete	PP	Polypropylene
CSB	Concrete Segment	PF	Pitched Fibre
CSU	Concrete Segment	MA	Masonry, Coursed
CC	Concrete Box Culverted	MA	Masonry, Random
PSC	Plastic / Steel	RP	Reinforced Plastic
GR	Glass Reinforced	CI	Cast Iron
GRP	Glass Reinforced	SI	Spun Iron
PVC	Polyvinyl Chloride	ST	Steel
PE	Polyethylene	U	Unspecified

## CLEAN WATER SYMBOLOGY

### PIPE WORK



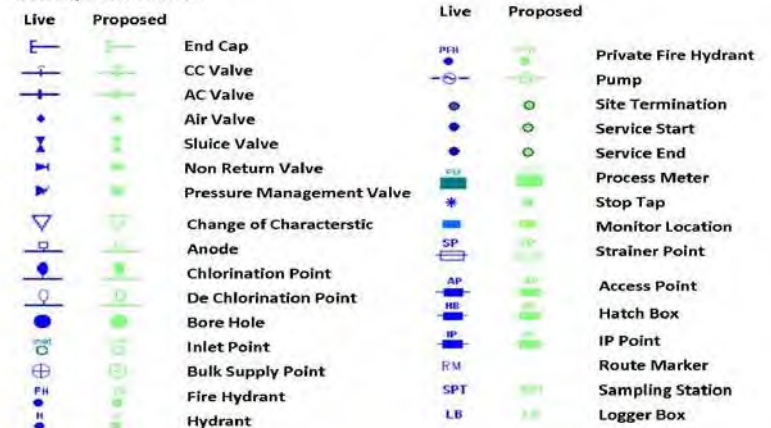
### ABANDONED PIPE



### PROPERTY TYPES



### NODES/FURNITURES



Legend	
MATERIAL TYPES	LINING TYPES
AC	ASBESTOS CEMENT
CI	CAST IRON
CU	COPPER
CO	CONCRETE
DI	DUCTILE IRON
GI	GALVANISED IRON
GR	GREY IRON
OT	OTHERS
PB	LEAD
PV	UPVC
SI	SPUN IRON
ST	STEEL
UN	UNKNOWN
PE	POLYETHYLENE
CL	CEMENT LINING
TB	TAR OR BITUMEN
ERL	EPOXY RESIN
INSERTION TYPES	
DD	DIE DRAWN
DR	DIRECTIONAL DRILLING
MO	MOLING
PI	PIPELINE
SL	SLIP LINED





# Extract from Map of Public Sewers

The position of the underground apparatus shown on this plan is approximate only and is given in accordance with the best information currently available.

The actual positions may be different from those shown on the plan and private pipes, sewers or drains may not be recorded.

United Utilities Water will not accept liability for any loss or damage caused by the actual position being different from those shown. Crown copyright and database rights [2016] Ordnance Survey 100022432.

United Utilities Water Limited 2014  
The plan is based upon the Ordnance Survey Map with the sanction of the Controller of H.M. Stationery Office. Crown and United Utilities copyrights are reserved. Unauthorised reproduction will infringe these copyrights.

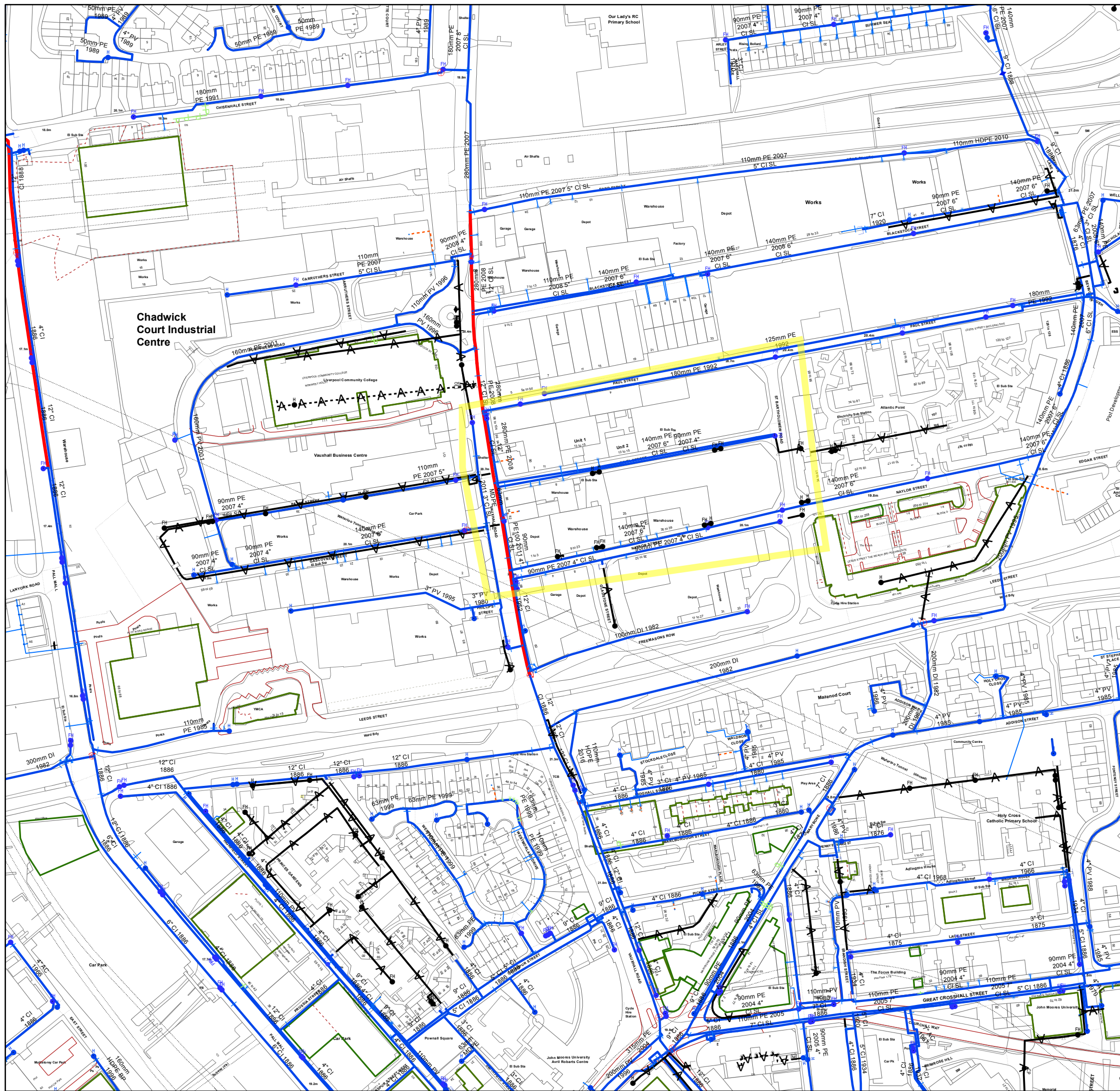
Oriel Street  
Vauxhall  
Liverpool  
L3 6DU

Printed By: Property Searches Date: 05/02/2018

**DO NOT SCALE**  
Approximate Scale: 1:2500







# Extract from Map of Water Mains

The position of the underground apparatus shown on this plan is approximate only and is given in accordance with the best information currently available

The actual positions may be different from those shown on the plan, private service pipes may be shown where a known record is available.

United Utilities Water will not accept liability for any loss or damage caused by the actual position being different from those shown. Crown copyright and database rights [2016] Ordnance Survey 100022432.

United Utilities Water Limited 2014  
The plan is based upon the Ordnance Survey Map with the sanction of the Controller of H.M. Stationery Office. Crown and United Utilities copyrights are reserved. Unauthorised reproduction will infringe these copyrights.

Oriel Street  
Vauxhall  
Liverpool  
L3 6DU

Printed By: Property Searches    Date: 05/02/2018

**DO NOT SCALE**  
Approximate Scale: 1:2500



Michael Riley  
Premier Energy Services  
Premier House  
Daux Road  
Daux Road  
Billingshurst  
Billingshurst  
West Sussex

Plant Protection  
Cadent  
Block 1; Floor 1  
Brick Kiln Street  
Hinckley  
LE10 0NA  
E-mail: [plantprotection@cadentgas.com](mailto:plantprotection@cadentgas.com)  
Telephone: +44 (0)800 688588

**National Gas Emergency Number:**  
**0800 111 999\***

**National Grid Electricity Emergency Number:**  
**0800 40 40 90\***

\* Available 24 hours, 7 days/week.  
Calls may be recorded and monitored.

[www.cadentgas.com](http://www.cadentgas.com)

**Date:** 02/02/2018

**Our Ref:** NW\_TW\_Z2\_3SWX\_400363

**Your Ref:** 603546 - Oriel Street

**RE: Proposed Works, Oriel Street, Vauxhall, Liverpool, Merseyside, L3 6DU**

Thank you for your enquiry which was received on 01/02/2018.  
Please note this response and any attached map(s) are valid for 28 days.

An assessment has been carried out with respect to Cadent Gas Ltd, National Grid Electricity Transmission plc's and National Grid Gas plc's apparatus. Please note it does not cover the items listed in the section "Your Responsibilities and Obligations", including gas service pipes and related apparatus.  
For details of Network areas please see the Cadent website (<http://cadentgas.com/Digging-safely/Dial-before-you-dig>) or the enclosed documentation.

**As your works are at a "proposed" stage, any maps and guidance provided are for information purposes only. This is not approval to commence work. You must submit a "Scheduled Works" enquiry at the earliest opportunity and failure to do this may lead to disruption to your plans and works. Plant Protection will endeavour to provide an initial assessment within 14 days of receipt of a Scheduled Works enquiry and dependent on the outcome of this, further consultation may be required.**

**In any event, for safety and legal reasons, works must not be carried out until a Scheduled Works enquiry has been completed and final response received.**



## Your Responsibilities and Obligations

The "Assessment" Section below outlines the detailed requirements that must be followed when planning or undertaking your scheduled activities at this location.

It is your responsibility to ensure that the information you have submitted is accurate and that all relevant documents including links are provided to all persons (either direct labour or contractors) working for you near Cadent and/or National Grid's apparatus, e.g. as contained within the Construction (Design and Management) Regulations.

This assessment solely relates to Cadent Gas Ltd, National Grid Electricity Transmission plc (NGET) and National Grid Gas plc (NGG) and apparatus. This assessment does **NOT** include:

- Cadent and/or National Grid's legal interest (easements or wayleaves) in the land which restricts activity in proximity to Cadent and/or National Grid's assets in private land. You must obtain details of any such restrictions from the landowner in the first instance and if in doubt contact Plant Protection.
- Gas service pipes and related apparatus
- Recently installed apparatus
- Apparatus owned by other organisations, e.g. other gas distribution operators, local electricity companies, other utilities, etc.

It is **YOUR** responsibility to take into account whether the items listed above may be present and if they could be affected by your proposed activities. Further "Essential Guidance" in respect of these items can be found on the National Grid Website (<http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=8589934982>).

This communication does not constitute any formal agreement or consent for any proposed development work; either generally or with regard to Cadent and/or National Grid's easements or wayleaves nor any planning or building regulations applications.

Cadent Gas Ltd, NGG and NGET or their agents, servants or contractors do not accept any liability for any losses arising under or in connection with this information. This limit on liability applies to all and any claims in contract, tort (including negligence), misrepresentation (excluding fraudulent misrepresentation), breach of statutory duty or otherwise. This limit on liability does not exclude or restrict liability where prohibited by the law nor does it supersede the express terms of any related agreements.

If you require further assistance please contact the Plant Protection team via e-mail ([click here](#)) or via the contact details at the top of this response.

Yours faithfully

Plant Protection Team

# ASSESSMENT

## Affected Apparatus

The apparatus that has been identified as being in the vicinity of your proposed works is:

- Low or Medium pressure (below 2 bar) gas pipes and associated equipment. (As a result it is highly likely that there are gas services and associated apparatus in the vicinity)
- Electricity Transmission underground cables and associated equipment

## Requirements

**BEFORE carrying out any work you must:**

- **Refer to the attached cable profile drawings (if any) which provide details about the location of National Grid's high voltage underground cables.**
- Carefully read these requirements including the attached guidance documents and maps showing the location of apparatus.
- Contact the landowner and ensure any proposed works in private land do not infringe Cadent and/or National Grid's legal rights (i.e. easements or wayleaves). If the works are in the road or footpath the relevant local authority should be contacted.
- Ensure that all persons, including direct labour and contractors, working for you on or near Cadent and/or National Grid's apparatus follow the requirements of the HSE Guidance Notes HSG47 - 'Avoiding Danger from Underground Services' and GS6 – 'Avoidance of danger from overhead electric power lines'. This guidance can be downloaded free of charge at <http://www.hse.gov.uk>
- In line with the above guidance, verify and establish the actual position of mains, pipes, cables, services and other apparatus on site before any activities are undertaken.

# GUIDANCE

## **Working Near National Grid Electricity Transmission equipment:**

If you are carrying out any work in proximity to an overhead line or any excavation that may be near an underground cable then please consult National Grid Technical Guidance Note 287 that can be found at <http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=8589935533> Further guidance related to underground cables can also be found at <http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=8589936512>

## **Excavating Safely - Avoiding injury when working near gas pipes:**

[http://www.nationalgrid.com/NR/rdonlyres/2D2EEA97-B213-459C-9A26-18361C6E0B0D/25249/Digsafe\\_leaflet3e2finalamends061207.pdf](http://www.nationalgrid.com/NR/rdonlyres/2D2EEA97-B213-459C-9A26-18361C6E0B0D/25249/Digsafe_leaflet3e2finalamends061207.pdf)

## Standard Guidance

### **Essential Guidance document:**

<http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=8589934982>

### **General Guidance document:**

<http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=35103>

### **Excavating Safely in the vicinity of gas pipes guidance (Credit card):**

<http://www.nationalgrid.com/NR/rdonlyres/A3D37677-6641-476C-9DDA-E89949052829/44257/ExcavatingSafelyCreditCard.pdf>

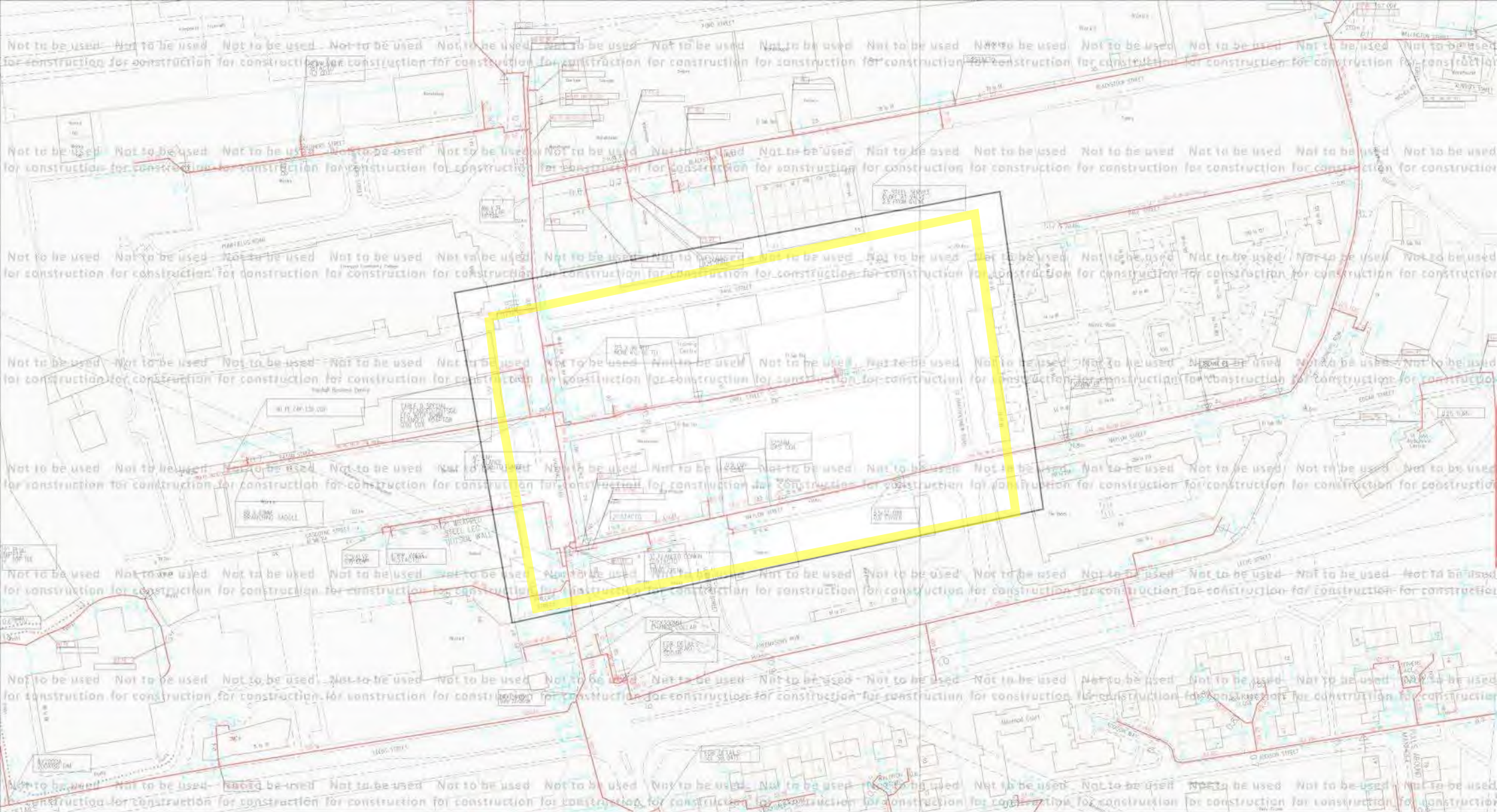
### **Excavating Safely in the vicinity of electricity cables guidance (Credit card):**


<http://www.nationalgrid.com/NR/rdonlyres/35DDEC6D-D754-4BA5-AF3C-D607D05A25C2/44858/ExcavatingSafelyCreditCardelectricitycables.pdf>

Copies of all the Guidance Documents can also be downloaded from the National Grid Website:

<http://www.nationalgrid.com/uk/Gas/Safety/work/downloads/>





ID: NW_TW_Z2_3SWX_400363		View extent: 723m, 393m	Map not to be used for construction	Map 1 of 2 (GAS)
USER: Mriley87	LP MAINS		<p>This plan shows those pipes owned by National Grid Gas plc in its role as a Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof 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 National Grid Gas plc or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, 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. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.</p>	<p>MAPS Plot Server Version 1.9.0</p>  <p>Your Gas Network</p> <p>Requested by: Premier Energy Services</p>
DATE: 02/02/2018	MP MAINS			
DATA DATE: 31/01/2018	IP MAINS			
REF: 603546 - Oriel Street	LHP MAINS			
	NHP MAINS			
MAP REF: SJ3491	<div>0m  50m</div> <p>Approximate scale 1:2500 on A4 Colour Landscape</p>			
CENTRE: 334418, 391289				
<p>Some examples of Plant Items:</p> <div><div>Valve </div><div>Depth of Cover </div><div>Syphon </div><div>Diameter Change </div><div>Material Change </div><div>Out of Standard Service </div></div>				



# ENQUIRY SUMMARY

## Received Date

01/02/2018

## Your Reference

603546 - Oriel Street

## Location

Centre Point: 334418, 391288

X Extent: 285

Y Extent: 209

Location Description: Oriel Street, Vauxhall, Liverpool, Merseyside, L3 6DU

## Map Options

Paper Size: A4

Orientation: LANDSCAPE

Requested Scale: 2500

Actual Scale: 1:2500 (GAS), 1:10000 (ELECTRIC)

Real World Extents: 723m x 393m (GAS), 2890m x 1570m (ELECTRIC)

## Recipients

michael.riley@premierenergy.co.uk

## Enquirer Details

Organisation Name: Premier Energy Services

Contact Name: Michael Riley

Email Address: michael.riley@premierenergy.co.uk

Telephone: 01403 740 240

Address: Premier House, Daux Road, Daux Road, Billingshurst, Billingshurst, West Sussex, RH14 9SJ

## Description of Works

Plans only

## Enquiry Type

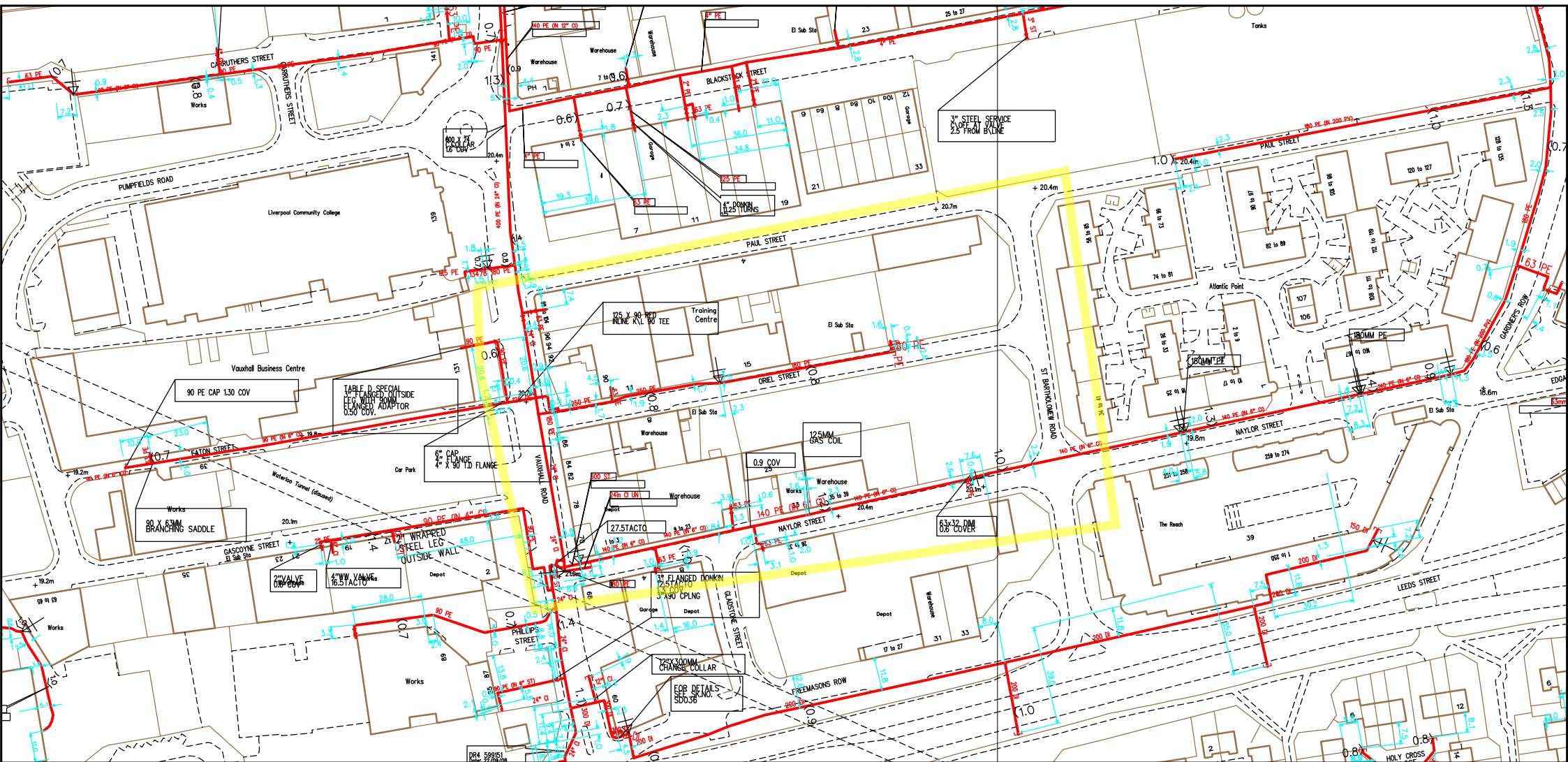
Proposed Works

## Activity Type

Development Project

## Work Types

Work Type: Plans Only



SCALE: Not to scale		<div><div>LP MAINS</div><div>MP MAINS</div><div>IP MAINS</div><div>LHP MAINS</div></div> <p>This plan shows those pipes owned by Cadent Gas Ltd in their role as a Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof 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 Cadent Gas Ltd or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, 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. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue. Further information on all DR4s can be determined by calling the DR4 hotline on 01455 892426 (9am-5pm) A DR4 is where a potential error has been identified within the asset record and a process is currently underway to investigate and resolve the error as appropriate.</p>	MAPS Viewer Version 5.8.0.1	
USER ID: holli.welsh			Local Machine	
DATE: 01/02/2018				
EXTRACT DATE: 06/12/2017				
MAP REF: SJ3491				
CENTRE: 334418, 391291			This plan is reproduced from or based on the OS map by Cadent Gas Ltd, with the sanction of the controller of HM Stationery Office. Crown Copyright Reserved.	

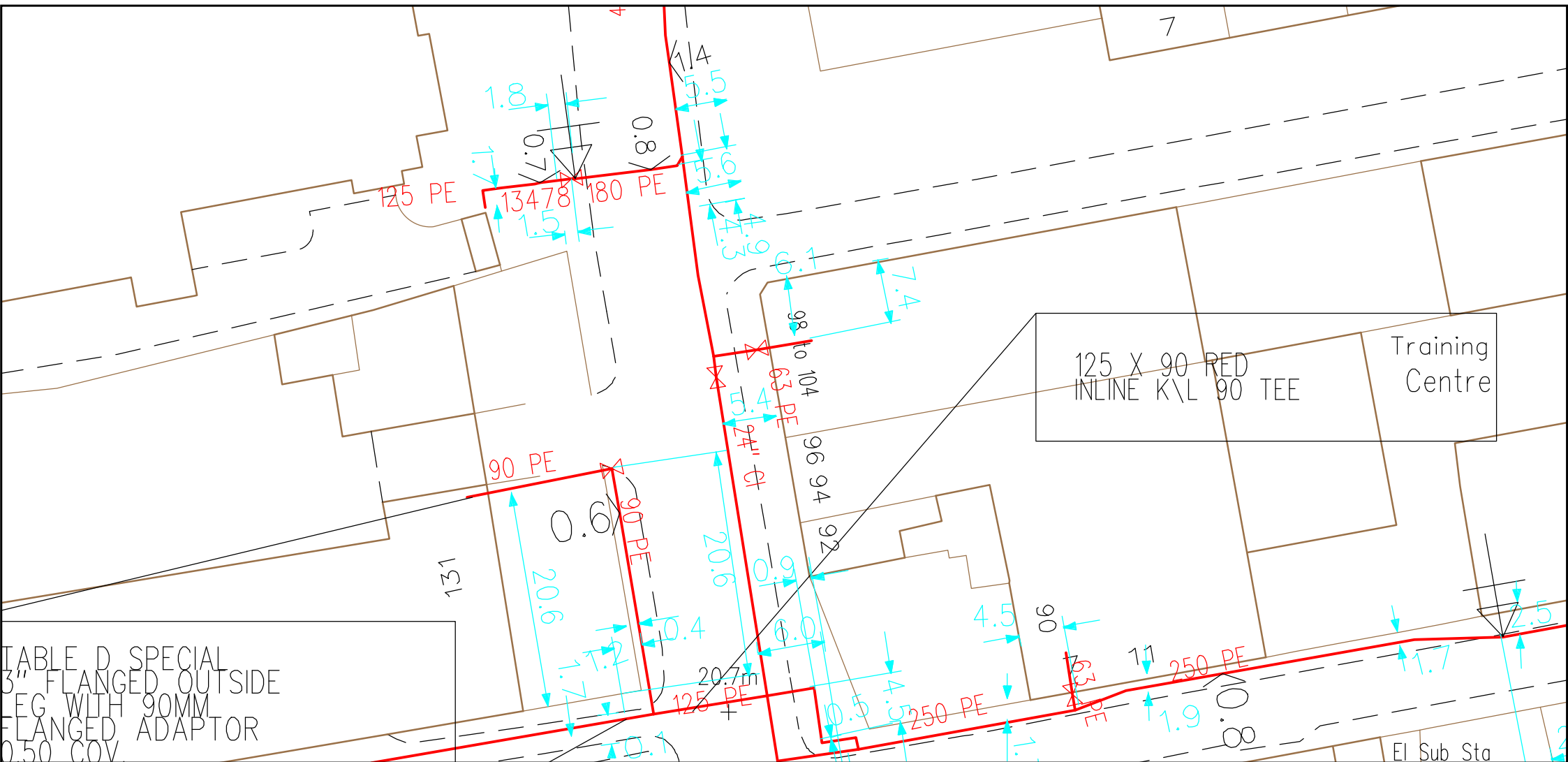
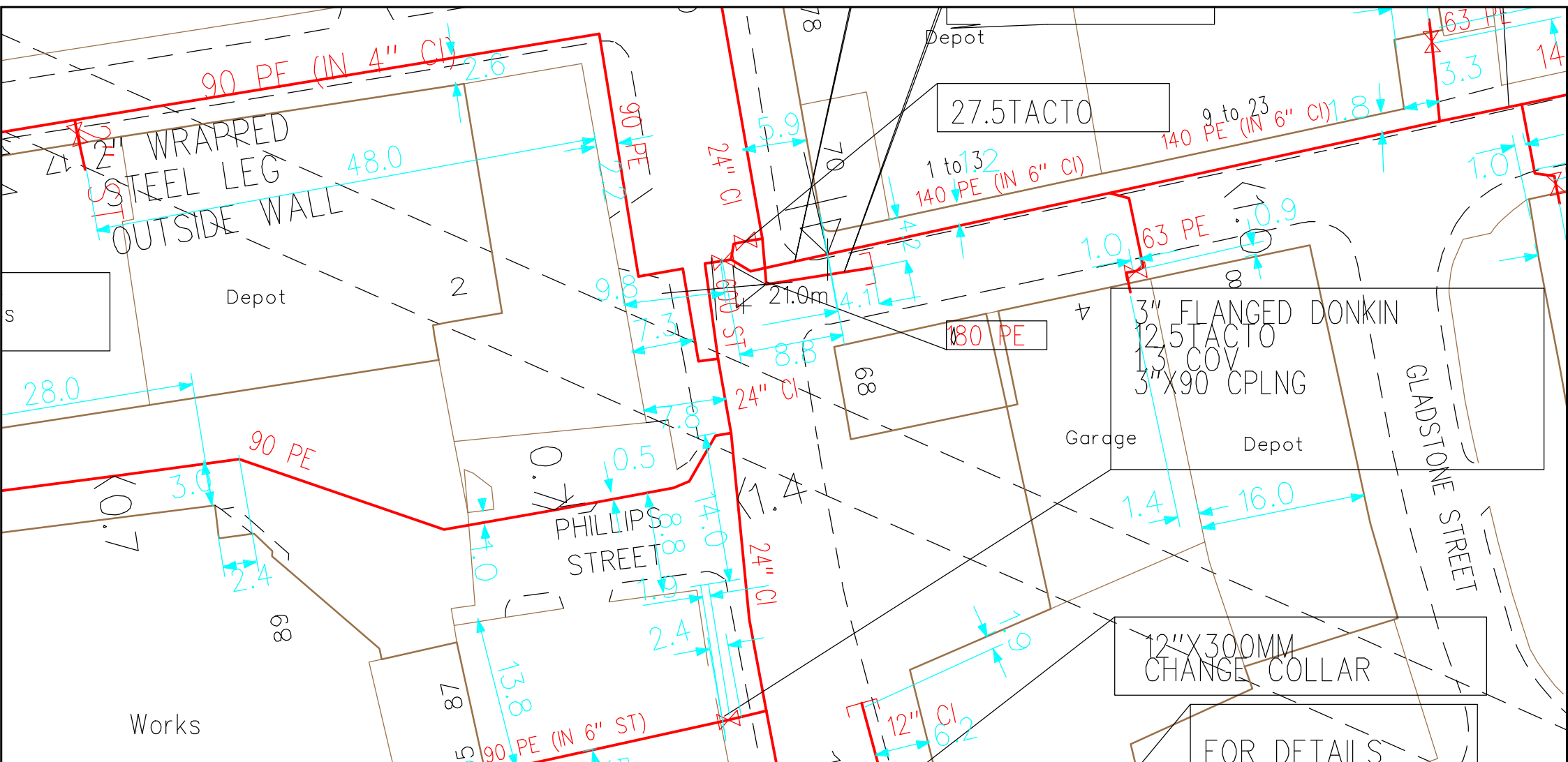


TABLE D SPECIAL  
3" FLANGED OUTSIDE  
LEG WITH 90MM  
FLANGED ADAPTOR  
0.50 COV

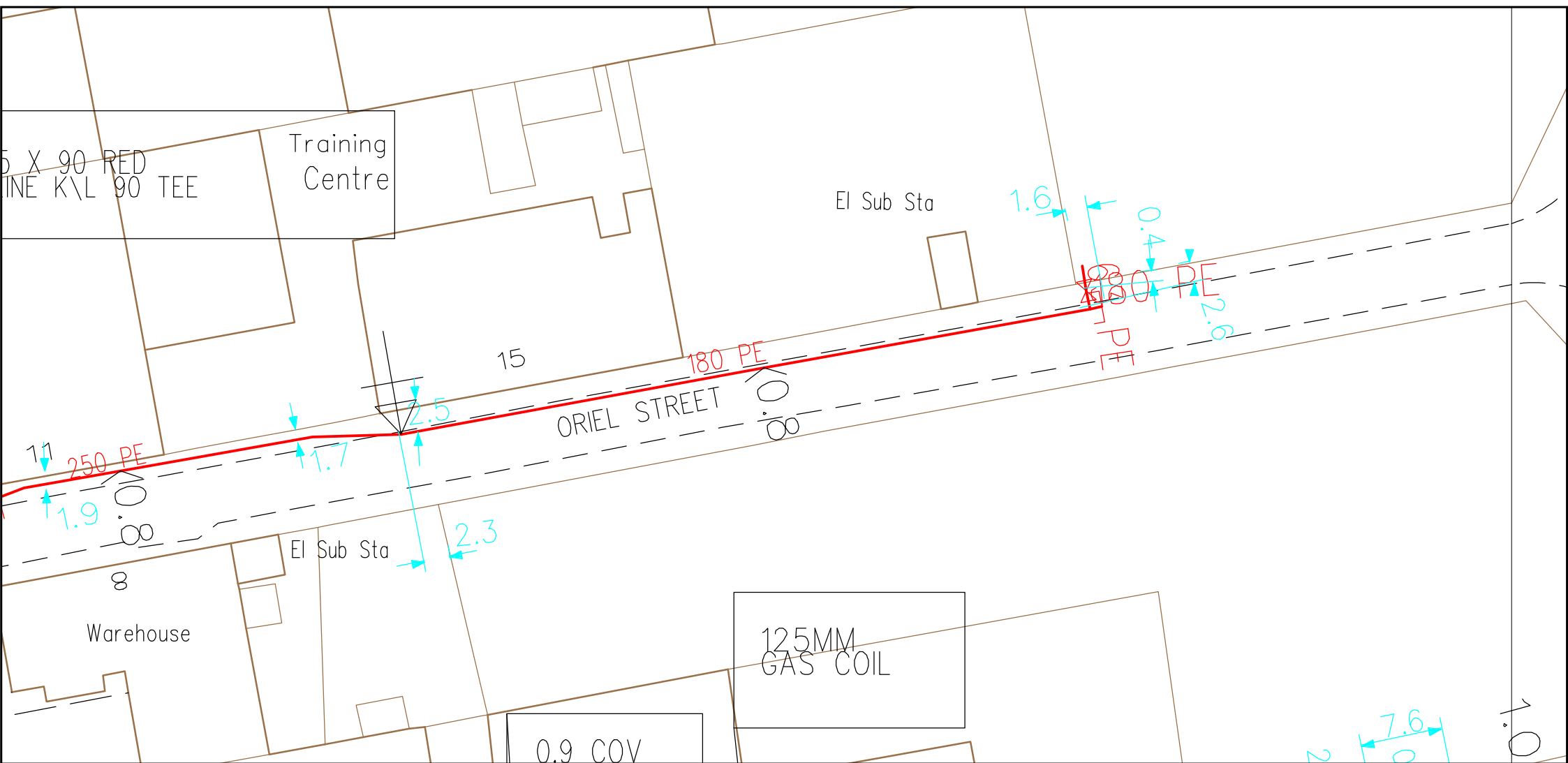
SCALE: Not to scale	<div><div>LP MAINS</div><div>MP MAINS</div><div>IP MAINS</div><div>LHP MAINS</div></div>	<p>This plan shows those pipes owned by Cadent Gas Ltd in their role as a Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof 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 Cadent Gas Ltd or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, 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. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue. Further information on all DR4s can be determined by calling the DR4 hotline on 01455 892426 (9am-5pm) A DR4 is where a potential error has been identified within the asset record and a process is currently underway to investigate and resolve the error as appropriate.</p>	MAPS Viewer Version 5.8.0.1
USER ID: holli.welsh			Local Machine
DATE: 01/02/2018			<p>This plan is reproduced from or based on the OS map by Cadent Gas Ltd, with the sanction of the controller of HM Stationery Office. Crown Copyright Reserved.</p>
EXTRACT DATE: 06/12/2017			
MAP REF: SJ3491			
CENTRE: 334325, 391315			





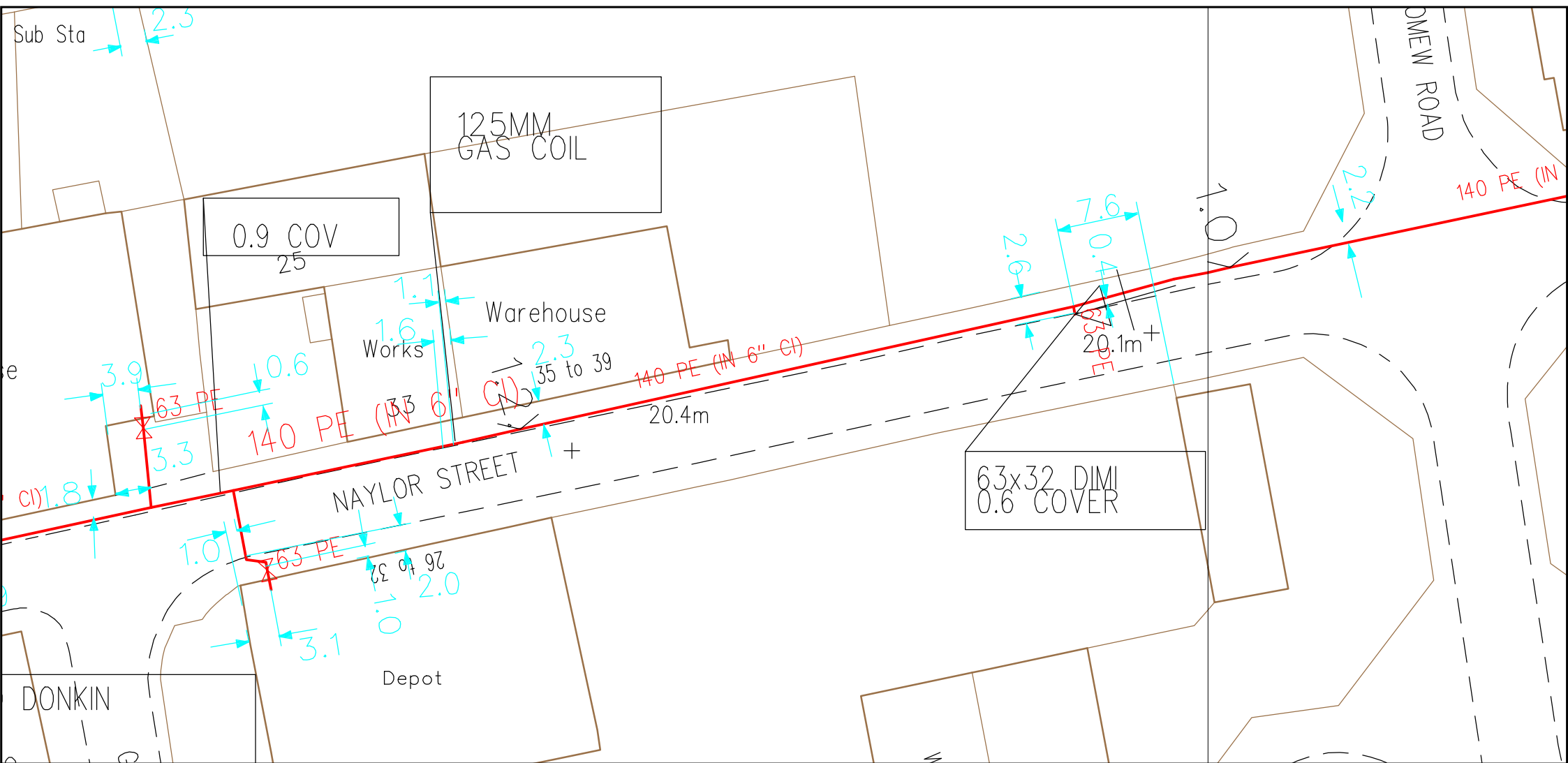


SCALE: Not to scale		<div><div>LP MAINS</div><div>MP MAINS</div><div>IP MAINS</div><div>LHP MAINS</div></div> <p>This plan shows those pipes owned by Cadent Gas Ltd in their role as a Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof 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 Cadent Gas Ltd or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, 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. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue. Further information on all DR4s can be determined by calling the DR4 hotline on 01455 892426 (9am-5pm) A DR4 is where a potential error has been identified within the asset record and a process is currently underway to investigate and resolve the error as appropriate.</p>	MAPS Viewer Version 5.8.0.1	
USER ID: holli.welsh			Local Machine	
DATE: 01/02/2018				
EXTRACT DATE: 06/12/2017				
MAP REF: SJ3491				
CENTRE: 334336, 391209			This plan is reproduced from or based on the OS map by Cadent Gas Ltd, with the sanction of the controller of HM Stationery Office. Crown Copyright Reserved.	



SCALE: Not to scale		<div><div>LP MAINS</div><div>MP MAINS</div><div>IP MAINS</div><div>LHP MAINS</div></div> <p>This plan shows those pipes owned by Cadent Gas Ltd in their role as a Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof 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 Cadent Gas Ltd or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, 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. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue. Further information on all DR4s can be determined by calling the DR4 hotline on 01455 892426 (9am-5pm) A DR4 is where a potential error has been identified within the asset record and a process is currently underway to investigate and resolve the error as appropriate.</p>	MAPS Viewer Version 5.8.0.1	
USER ID: holli.welsh			Local Machine	
DATE: 01/02/2018				
EXTRACT DATE: 06/12/2017				
MAP REF: SJ3491			This plan is reproduced from or based on the OS map by Cadent Gas Ltd, with the sanction of the controller of HM Stationery Office. Crown Copyright Reserved.	
CENTRE: 334430, 391296				

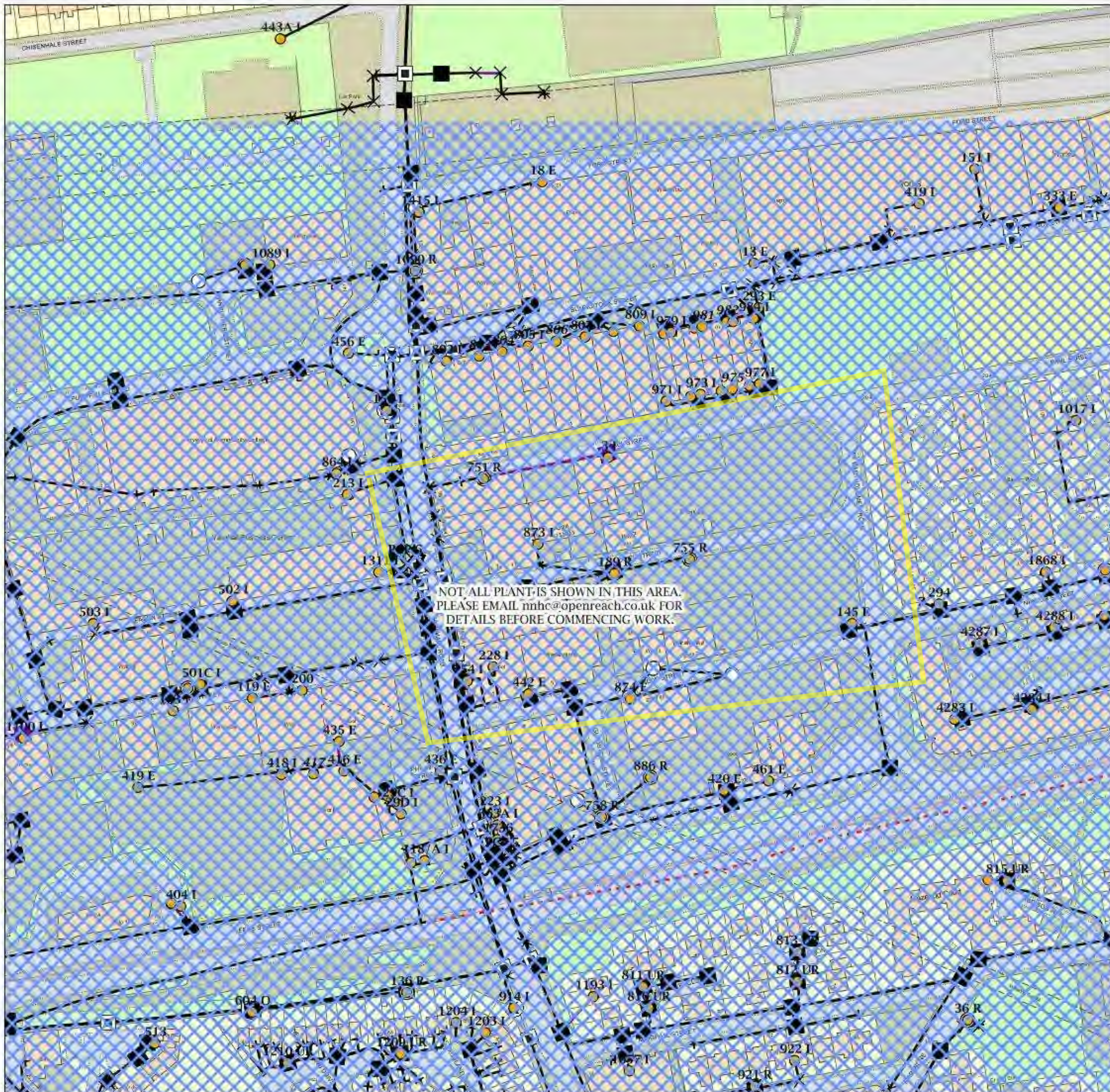




SCALE: Not to scale		<div><div>LP MAINS</div><div>MP MAINS</div><div>IP MAINS</div><div>LHP MAINS</div></div> <p>This plan shows those pipes owned by Cadent Gas Ltd in their role as a Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof 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 Cadent Gas Ltd or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, 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. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue. Further information on all DR4s can be determined by calling the DR4 hotline on 01455 892426 (9am-5pm) A DR4 is where a potential error has been identified within the asset record and a process is currently underway to investigate and resolve the error as appropriate.</p>	MAPS Viewer Version 5.8.0.1	
USER ID: holli.welsh			Local Machine	
DATE: 01/02/2018				
EXTRACT DATE: 06/12/2017				
MAP REF: SJ3491				
CENTRE: 334459, 391246			This plan is reproduced from or based on the OS map by Cadent Gas Ltd, with the sanction of the controller of HM Stationery Office. Crown Copyright Reserved.	



# 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](mailto:cbyd@openreach.co.uk)

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

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

## KEY TO BT SYMBOLS

DP		Pole	
Planned DP		Planned Pole	
PCP		Joint Box	
Planned PCP		Change Of State	
Built		Split Coupling	
Planned		Duct Tee	
Inferred		Planned Box	
Building		Manhole	
Kiosk		Planned Manhole	
Hatchings		Cabinet	
		Planned Cabinet	

Other proposed plant is shown using dashed lines.  
BT Symbols not listed above maybe disregarded.  
Existing BT Plant may not be recorded.  
Information valid at time of preparation

BT Ref : FMB03413F  
Map Reference : (centre) SJ3438091296  
Easting/Northing : (centre) 334380,391296  
Issued : 01/02/2018 15:42:11

**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](mailto:nnhc@openreach.co.uk)**



## Michael Riley

---

**From:** mike.powell@openreach.co.uk  
**Sent:** 02 February 2018 15:17  
**To:** Michael Riley  
**Subject:** FW: DLT Ref No : 118 : FW: 118 : Plant Enquiry - ORIEL STREET, LIVERPOOL, L3 6DU

**Significant Network Assets are non affecting in this instance. Please see attached**

Our Ref:- 118

Dear Customer,

Your Plant Enquiry Site:

**Prior to commencement of work: for free onsite guidance and accurate up to date location of BT plant please contact our Plant Protection Service by: Email: cbyd@openreach.co.uk  
Visit the website: [www.dialbeforeyoudig.com](http://www.dialbeforeyoudig.com)**

Thank you for your enquiry.

From the supplied map reference our records indicate that there is no Deep Level Plant or equipment at this location.

**\*\* Please note that each enquiry is unique and should your client's development or project change then you will need to make further enquiries if the area or address changes \*\***

Please ensure you quote our reference on any future correspondence.

Yours faithfully

**Mike Powell**

NNHC

Openreach

Telephone: 0117 376 0905

Web: [www.openreach.co.uk](http://www.openreach.co.uk)

Openreach is building Britain's connected future. We install and maintain the communications infrastructure that links homes and businesses to their service provider's network - meeting their digital needs both today, and in the future.

This email contains BT information, which may be privileged or confidential.

It's meant only for the individual(s) or entity named above. If you're not the intended recipient, note that disclosing, copying, distributing or using this information is prohibited. If you've received this email in error, please let me know immediately on the email address above. Thank you.

We monitor our email system, and may record your emails.

**British Telecommunications plc**

Registered office: 81 Newgate Street London EC1A 7AJ

Registered in England no. 1800000



# Legend

## CAUTION AREA

BT.CAUTION\_AREA

## EQUIPMENT

FIBRE, TCODE

COPPER, CABINET

COPPER, DP

## DUCT

AERIAL

TUNNEL

DUCT

## PROPOSED

AERIAL

DUCT

## STRUCTURE

YCODE

CABINET SHELL

SPLIT COUPLING

POLE

KIOSKS

MANHOLE

JOINTBOX

CHANGE OF STATE

DUCT TEE

## PROPOSED

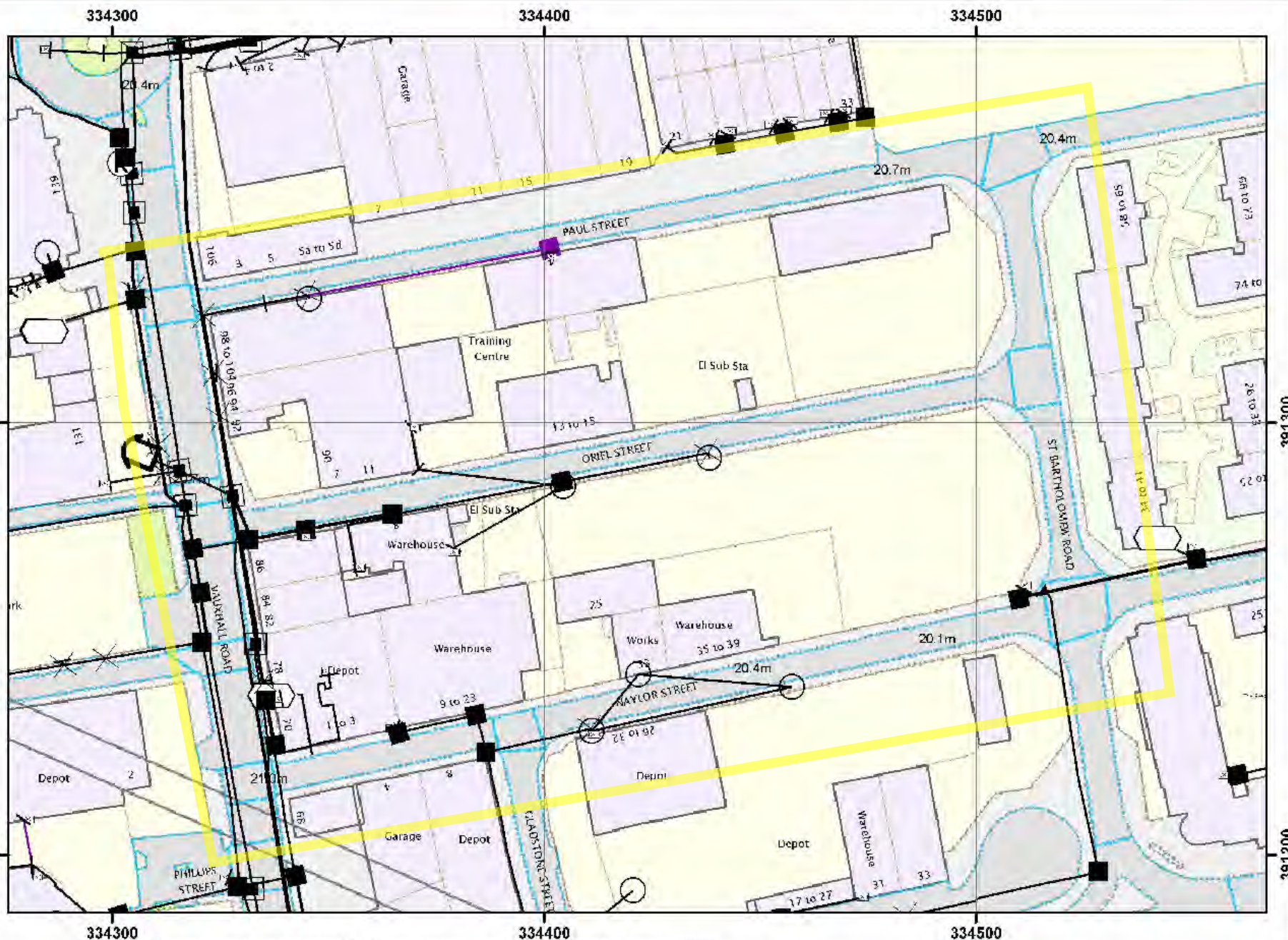
MANHOLE

JOINTBOX

DUCT TEE

Other proposed plant is shown using dashed lines.

BT symbols not listed above may be disregarded.



Reproduced by permission of Ordnance Survey on behalf of © Crown copyright. All rights reserved. Ordnance Survey Licence number: 100029040

**IMPORTANT WARNING:**  
Information regarding the location of BT apparatus is given to you as a guide 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.

Existing BT plant may not be recorded. Information valid at time of preparation.

**CLICK BEFORE YOU DIG**  
FOR A FREE COPY OF THE BT GUIDE TO THE UNDERGROUND, VISIT [www.bt.com/btguide](http://www.bt.com/btguide) OR CALL 0800 080 080. VISIT [www.bt.com/btguide](http://www.bt.com/btguide) OR CALL 0800 080 080.



## PLANT INFORMATION REPLY

DLT 118 DATE 23/02/18

ORIEL STREET 334381 : 391297 1:1250

**openreach**  
an BT Group business







## Michael Riley

---

**From:** plantenquiryservice@gtc-uk.co.uk  
**Sent:** 01 February 2018 16:25  
**To:** Michael Riley  
**Subject:** GTC Plant Enquiry - Ref- 605867  
**Attachments:** 605867.png

### GTC Apparatus Not Found In Search Area

**Our Plant Enquiry Service Ref: 605867**

**Your Enquiry Ref: ORIEL STREET**

Dear Michael,

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

#### NOTE:

This E-Mail originates from GTC, Energy House, Woolpit Business Park, Woolpit, Bury St Edmunds, Suffolk, IP30 9UP

VAT Number: GB688 8971 40. Registered No: 029431.

#### DISCLAIMER

The information in this E-Mail and in any attachments is confidential and may be privileged. If you are not the intended recipient, please destroy this message, delete any copies held on your system and notify the sender immediately. You







## Michael Riley

---

**From:** Plant Enquiries <plantenquiries@energetics-uk.com>  
**Sent:** 08 February 2018 16:21  
**To:** Michael Riley  
**Subject:** RE: Plant Enquiry - ORIEL STREET, LIVERPOOL, L3 6DU

Dear Sir/Madam,

Thank you for submitting your recent plant enquiry.

Based on the information provided, I can confirm that Energetics **does not** have any plant within the area(s) specified in your request.

If you require further assistance with outstanding enquiries, please call 03300 587 443.

Please ensure all plant enquiries are sent to [plantenquiries@energetics-uk.com](mailto:plantenquiries@energetics-uk.com)

Regards

---

<p>Plant Enquiries</p> 	<p>E: <a href="mailto:plantenquiries@energetics-uk.com">plantenquiries@energetics-uk.com</a> W: <a href="http://www.energetics-uk.com">www.energetics-uk.com</a></p>
--	--

---

---

**From:** Michael Riley [mailto:Michael.Riley@premierenergy.co.uk]  
**Sent:** 01 February 2018 15:22  
**To:** Plant Enquiries <plantenquiries@energetics-uk.com>  
**Subject:** Plant Enquiry - ORIEL STREET, LIVERPOOL, L3 6DU

Dear Plant Enquiries,

Please search the following location for your plant:

Oriel Street, Liverpool, Vauxhall, Merseyside, L3 6DU

[334332,391319]

A location plan (2 pages) showing the search area is attached. If you have plant within the search area or close to the boundary please provide record drawings, ideally by email attachment. Please provide your information as soon as possible.

Many thanks.

Kind regards,

## Michael Riley

---

**From:** Plantenquiries <plantenquiries@catelecomuk.com>  
**Sent:** 12 February 2018 10:07  
**To:** Michael Riley  
**Subject:** RE: Plant Enquiry - ORIEL STREET, LIVERPOOL, L3 6DU

**Please Note: Our search criteria has changed. We previously searched for Colt Network which was within 200 metres, this has now changed to 50 metres. The negative response will be for all enquiries that the network is 50 metres or more away from the place of enquiry.**

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



**Please consider the environment before printing this email.**

*This e-mail and any files transmitted with it are confidential and are intended solely for the use of the intended recipient(s). If you are not the intended recipient, you must not copy, distribute or take any action based on this communication. If you have received this communication in error please contact [plantenquiries@catelecomuk.com](mailto:plantenquiries@catelecomuk.com) and delete this communication and any copies of it. Any views or opinions presented are solely those of the author and do not necessarily represent those of C A Telecom LTD. C A Telecom LTD monitors e-mails to ensure that its systems operate effectively and to minimise the risk of viruses.*

---

**From:** Michael Riley [mailto:Michael.Riley@premierenergy.co.uk]  
**Sent:** 01 February 2018 15:22  
**To:** Plantenquiries <plantenquiries@catelecomuk.com>  
**Subject:** Plant Enquiry - ORIEL STREET, LIVERPOOL, L3 6DU



## Michael Riley

---

**From:** KPN Plant Enquiries <kpn.plantenquiries@instalcom.co.uk>  
**Sent:** 02 February 2018 10:28  
**To:** Michael Riley  
**Subject:** RE:K02-18- 0099 Plant Enquiry - ORIEL STREET, LIVERPOOL, L3 6DU



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](mailto:kpn.plantenquiries@instalcom.co.uk)  
Web: <http://www.instalcom.co.uk>



---

**From:** Michael Riley [mailto:Michael.Riley@premierenergy.co.uk]  
**Sent:** 01 February 2018 15:22  
**To:** KPN Plant Enquiries <kpn.plantenquiries@instalcom.co.uk>  
**Subject:** Plant Enquiry - ORIEL STREET, LIVERPOOL, L3 6DU

## Michael Riley

---

**From:** NRSWA <NRSWA@sky.uk>  
**Sent:** 01 February 2018 15:24  
**To:** Michael Riley  
**Subject:** Plant Enquiry - ORIEL STREET, LIVERPOOL, L3 6DU



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](mailto:nrswa@sky.uk).

Regards



---

**From:** Michael Riley [mailto:Michael.Riley@premierenergy.co.uk]  
**Sent:** 01 February 2018 15:22  
**To:** NRSWA <NRSWA@sky.uk>  
**Subject:** Plant Enquiry - ORIEL STREET, LIVERPOOL, L3 6DU

Dear Plant Enquiries,

Please search the following location for your plant:

Oriel Street, Liverpool, Vauxhall, Merseyside, L3 6DU

[334332,391319]

A location plan (2 pages) showing the search area is attached. If you have plant within the search area or close to the boundary please provide record drawings, ideally by email attachment. Please provide your information as soon as possible.

Many thanks.

Kind regards,

## Michael Riley

---

**From:** Interoute Enquiries <interoute.enquiries@plancast.co.uk>  
**Sent:** 02 February 2018 09:27  
**To:** Michael Riley  
**Subject:** RE: Plant Enquiry - ORIEL STREET, LIVERPOOL, L3 6DU

**This response does not include Vtesse plant, please continue to use Vtesse details for their enquiries**

To whom it may concern

Thank you for your enquiry regarding the above proposals at the above location

*We would advise that we are unaware of any Interoute plant or services in this Location as indicated in your enquiry.*

*We bring to your attention the fact that whilst we try to ensure the information we provide is accurate, the information is provided Without Prejudice and Interoute and its Agents accept no liability for claims arising from any inaccuracy, omissions or errors contained in this response.*

**All responses are only valid for 28 days**

Yours faithfully

**PLANCAST Plant Enquiry Department**



The Old Haybarn  
Rosebery Mews, Mentmore  
Bedfordshire LU7 0UE

T: 01296 662647  
[www.plancast.co.uk](http://www.plancast.co.uk)

Save Paper - Do you really need to print this email? This email and any attachments are or may be confidential and legally privileged and are sent solely for the attention of the addressee(s). If you have received this email in error, please delete it from your system: it's use, disclosure or copying is unauthorised. Statements and opinions expressed in this email may not represent those of PLANCAST. Any representations or commitments in this email are subject to contract.

Registered office: 1<sup>st</sup> Floor, The Old Haybarn, Rosebery Mews, Mentmore LU7 0UE.  
Registered in England and Wales with number 4455025 VAT No. 8567 195 80

---

**From:** Michael Riley [mailto:Michael.Riley@premierenergy.co.uk]  
**Sent:** 01 February 2018 15:22  
**To:** Interoute Enquiries <interoute.enquiries@plancast.co.uk>  
**Subject:** Plant Enquiry - ORIEL STREET, LIVERPOOL, L3 6DU



## Michael Riley

---

**From:** Plantenquiries <Plantenquiries@instalcom.co.uk>  
**Sent:** 05 February 2018 14:27  
**To:** Michael Riley  
**Subject:** RE: E02-18- 0768 Plant Enquiry - ORIEL STREET, LIVERPOOL, L3 6DU

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](mailto:plantenquiries@instalcom.co.uk)  
Web: <http://www.instalcom.co.uk>



---

**From:** Michael Riley [mailto:Michael.Riley@premierenergy.co.uk]  
**Sent:** 01 February 2018 15:22  
**To:** Plantenquiries <Plantenquiries@instalcom.co.uk>  
**Subject:** Plant Enquiry - ORIEL STREET, LIVERPOOL, L3 6DU

Dear Plant Enquiries,

Please search the following location for your plant:

## Michael Riley

---

**From:** UK OSP-Team <osp-team@uk.verizon.com>  
**Sent:** 01 February 2018 17:02  
**To:** Michael Riley  
**Cc:** UK OSP-Team  
**Subject:** RE: Plant Enquiry - ORIEL STREET, LIVERPOOL, L3 6DU

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 E.mail osp-team@uk.verizon.com

---

**From:** Michael Riley [mailto:Michael.Riley@premierenergy.co.uk]  
**Sent:** 01 February 2018 15:22  
**To:** UK OSP-Team  
**Subject:** Plant Enquiry - ORIEL STREET, LIVERPOOL, L3 6DU

Dear Plant Enquiries,

Please search the following location for your plant:

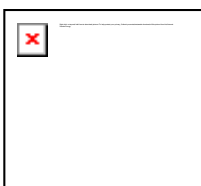
Oriel Street, Liverpool, Vauxhall, Merseyside, L3 6DU

[334332,391319]

A location plan (2 pages) showing the search area is attached. If you have plant within the search area or close to the boundary please provide record drawings, ideally by email attachment. Please provide your information as soon as possible.

Many thanks.

Kind regards,



**Michael Riley**

Utility Searches

t: 01403 740240 |

e: [Michael.Riley@premierenergy.co.uk](mailto:Michael.Riley@premierenergy.co.uk) | [www.premierenergy.co.uk](http://www.premierenergy.co.uk)

Premier House | Daux Road | Billingshurst | West Sussex | RH14 9SJ

Registered office as above. Incorporated in England & Wales No. 3023958



**telent**  
Mayne House  
Fenton Way  
Basildon  
Essex  
SS15 6TD  
United Kingdom

[www.telent.com](http://www.telent.com)

Date 19/02/2018  
Our Ref OSA180219

Dear Sir/Madam

**Teliasonera Line Plant Enquiry.**

Thank you for your correspondence enclosing details of your proposals. Our client's apparatus, Teliasonera, is not located within the vicinity of your enquiry 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](mailto:telenttelia.plantenquiries@telent.com)

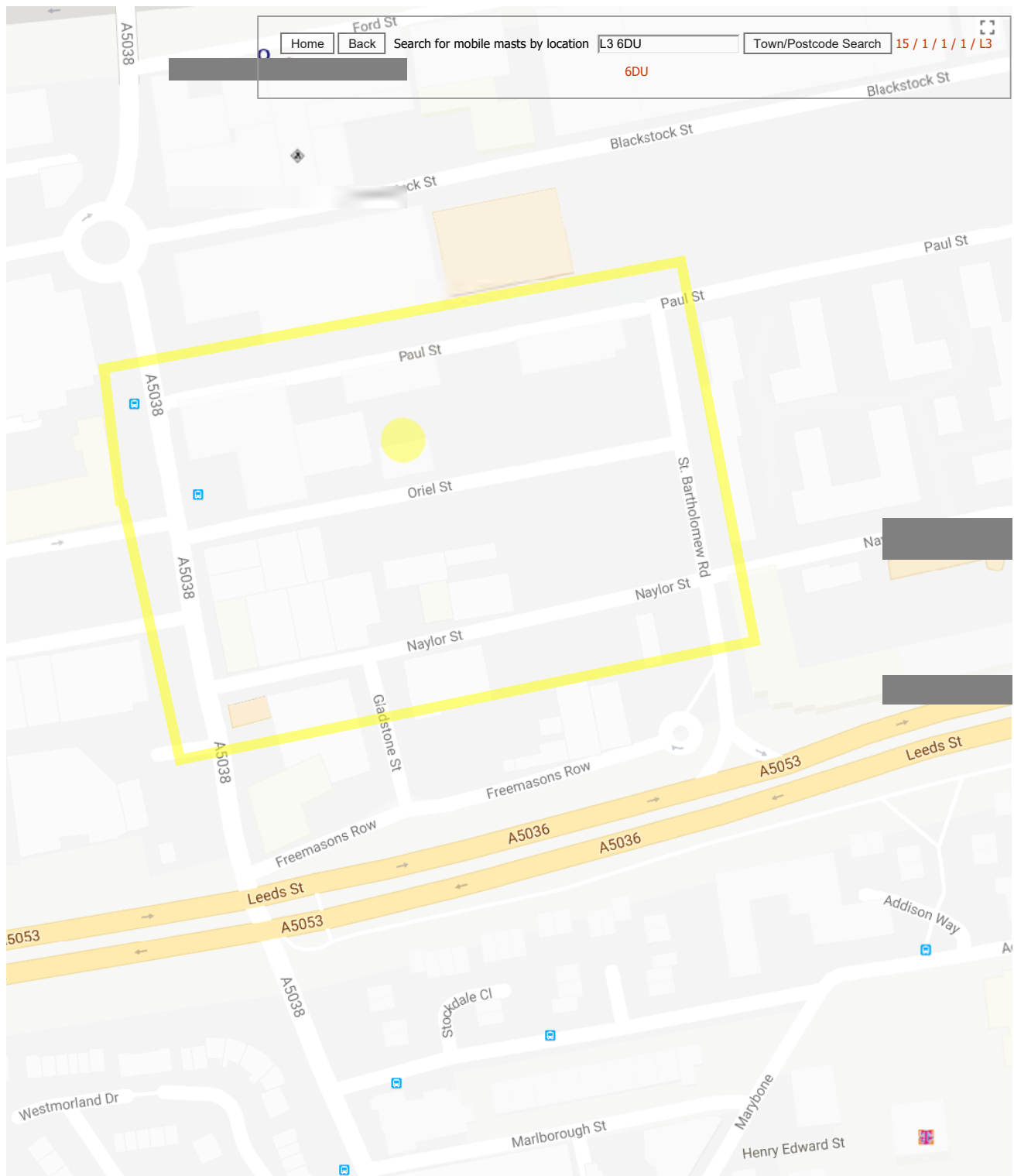
By phone – to,           01268 412670

Yours faithfully

Telent CCO

Basildon





Google

Map data ©2018 Google

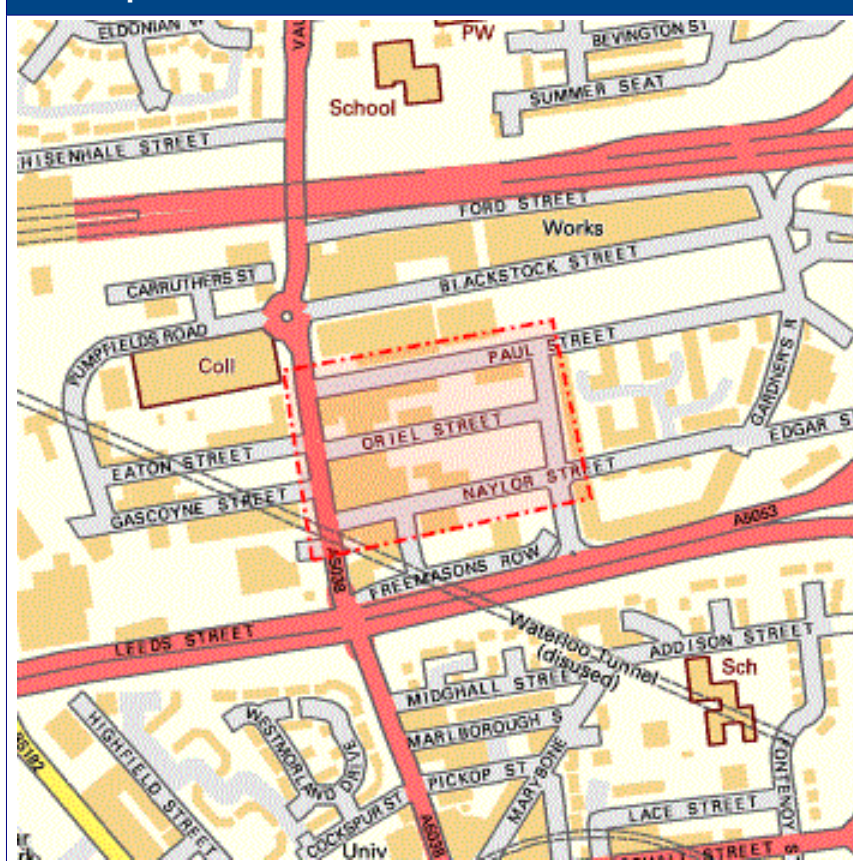
**Enquirer**

Name	Mr Michael Riley	Phone	01403740240
Company	Premier Energy Services Ltd	Mobile	Not Supplied
		Fax	Not Supplied
Address	Premier House Daux Road Billingshurst West Sussex RH14 9SJ		
Email	michael.riley@premierenergy.co.uk		
Notes	Please ensure your contact details are correct and up to date on the system in case the LSBUD Members need to contact you.		

**Enquiry Details**

Scheme/Reference	603546 - Oriel Street, Liverpool		
Enquiry type	Planned Works	Work category	Development Projects
Start date	29/03/2018	Work type	Housing
End date	29/03/2018	Site size	36151 metres square
Searched location	XY= 334380, 391296	Work type buffer*	25 metres
Confirmed location	334421 391292		

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

**Site Map**


## Asset Owners

**Terms and Conditions.** Please note that this enquiry is subject always to our standard terms and conditions available at [www.lineasearchbeforeudig.co.uk](http://www.lineasearchbeforeudig.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.

**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 LineasearchbeforeUdig 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.

**National Grid.** Please note that the LSBUD service only contains information on National Grid's Gas above 7 bar asset, all National Grid Electricity Transmission assets and National Grid's Gas Distribution Limited above 2 bar asset.

For National Grid Gas Distribution Ltd below 2 bar asset information please go to [www.beforeyoudig.nationalgrid.com](http://www.beforeyoudig.nationalgrid.com)



**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
Gamma	01618703384	08452416000	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	Gigaclear PLC	Redundant Pipelines - LPDA
BOC Limited (A Member of the Linde Group)	Gtt	RWEnpower (Little Barford and South Haven)
BP Exploration Operating Company Limited	Humbly Grove Energy	SABIC UK Petrochemicals
BPA	IGas Energy	Scottish Power Generation
Carrington Gas Pipeline	INEOS FPS Pipelines	Seabank Power Ltd
CATS Pipeline c/o Wood Group PSN	INEOS Manufacturing (Scotland and TSEP)	SGN
Cemex	INOVMN Enterprises Limited	Shell (St Fergus to Mossmorran)
Centrica Storage Ltd	Intergen (Coryton Energy or Spalding Energy)	Shell Pipelines
CLH Pipeline System Ltd	Mainline Pipelines Limited	SSE (Peterhead Power Station)
Concept Solutions People Ltd	Manchester Jetline Limited	Tata Communications (c/o JSM Construction Ltd)
ConocoPhillips (UK) Ltd	Manx Cable Company	Total (Colnbrook & Colwick Pipelines)
DIO (MOD Abandoned Pipelines)	Marchwood Power Ltd (Gas Pipeline)	Total Finaline Pipelines
E.ON UK CHP Limited	Melbourn Solar Limited	Transmission Capital
EirGrid	National Grid Gas (Above 7 bar), National Grid Gas Distribution Limited (Above 2 bar) and National Grid Electricity Transmission	UK Power Networks
Electricity North West Limited	Northumbrian Water Group	Uniper UK Ltd
ENI & Himor c/o Penspen Ltd	NPower CHP Pipelines	Vattenfall
EnQuest NNS Limited	Oikos Storage Limited	Veolia ES SELCHP Limited
EP Langage Limited	Ørsted	Western Power Distribution
ESP Utilities Group	Perenco UK Limited (Purbeck Southampton Pipeline)	Westminster City Council
ESSAR	Petroineos	Wingas Storage UK Ltd
Esso Petroleum Company Limited	Phillips 66	Zayo Group UK Ltd c/o JSM Group Ltd
Fulcrum Pipelines Limited	Premier Transmission Ltd (SNIP)	
Gateshead Energy Company	Prysmian Cables & Systems Ltd (c/o Western Link)	



**Date: 01/02/2018**

**LSBUD reference. 12133081**

**Your Scheme/Reference: 603546 - Oriel Street, Liverpool**

Dear Plant Enquirer,

Having examined our records, I can confirm that Gamma has owned apparatus close to the area of your enquiry detailed in the reference/location provided.

I attach a plan showing the approximate location.

Gamma have no objection to any proposed Utility works - The Information provided via LSBUD are drawings showing the location of the Gamma Apparatus within your work area & can be used in your Stat pack for the Civils Contractor.

Safe Working Procedures should be Practiced.

Please ensure that the use of mechanical excavators within the vicinity of our plant is kept to a minimum. Gamma Ducts are normally Green & contain Fibre Optic Cables. Extreme care must be taken whilst working in the vicinity of these ducts & hand digging methods to be used to determine their precise location.

If you require our apparatus to be diverted then a meeting can be arranged & costing can be provided.

Should you require further details, please call me at your convenience.

Please note this email address is for LSBUD responses only.

Your Scheme/Reference is on the PDF drawing attached.

Regards

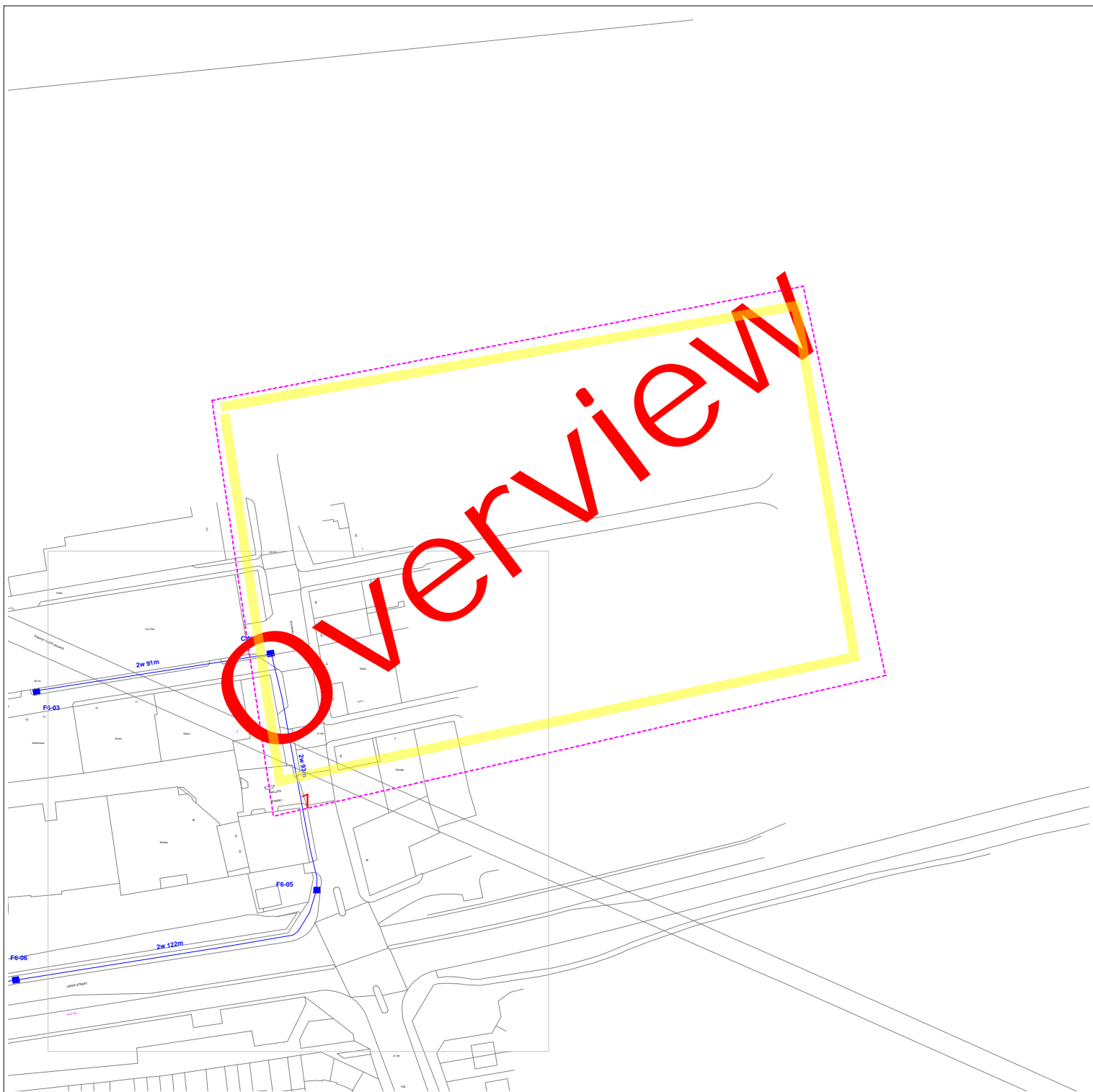
Gamma

Plant Records

Tel: 0161 870 3384

Fax: 0161 877 5704





Date Requested: 01/02/2018

Requested by: Michael Riley

Job Reference: 12133081

Company: Premier Energy Services Ltd

Scheme/Reference: 603546 - Oriel Street, Liverpool



2W

FW6

GAMMA FIBRE OPTIC IN OLO DUCT

FW6

GAMMA FIBRE DUCT & No.

GAMMA FIBRE CHAMBER & TYPE

GAMMA FIBRE OPTIC IN OLO DUCT

GAMMA FIBRE OPTIC IN OLO CHAMBER



FW6



GAMMA POP SITE

GAMMA REGEN SITE

GAMMA FIBRE OPTIC IN SHARED CHAMBER

GAMMA FIBRE OPTIC IN SHARED DUCT

The Information shown on this map is given as a general guide only. The map is issued without obligation or warranty. The accuracy cannot be guaranteed. The Exact position of the ducts should be verified prior to mechanical excavation. The Nominal Depth of Duct Cover is:- Carriageway-600mm Footway & Verge-350mm. The Fibre Optic cables will not be traceable by use of a "CAT"

**NOTES :- Chamber Lids may be labelled as 'Atlantic'**

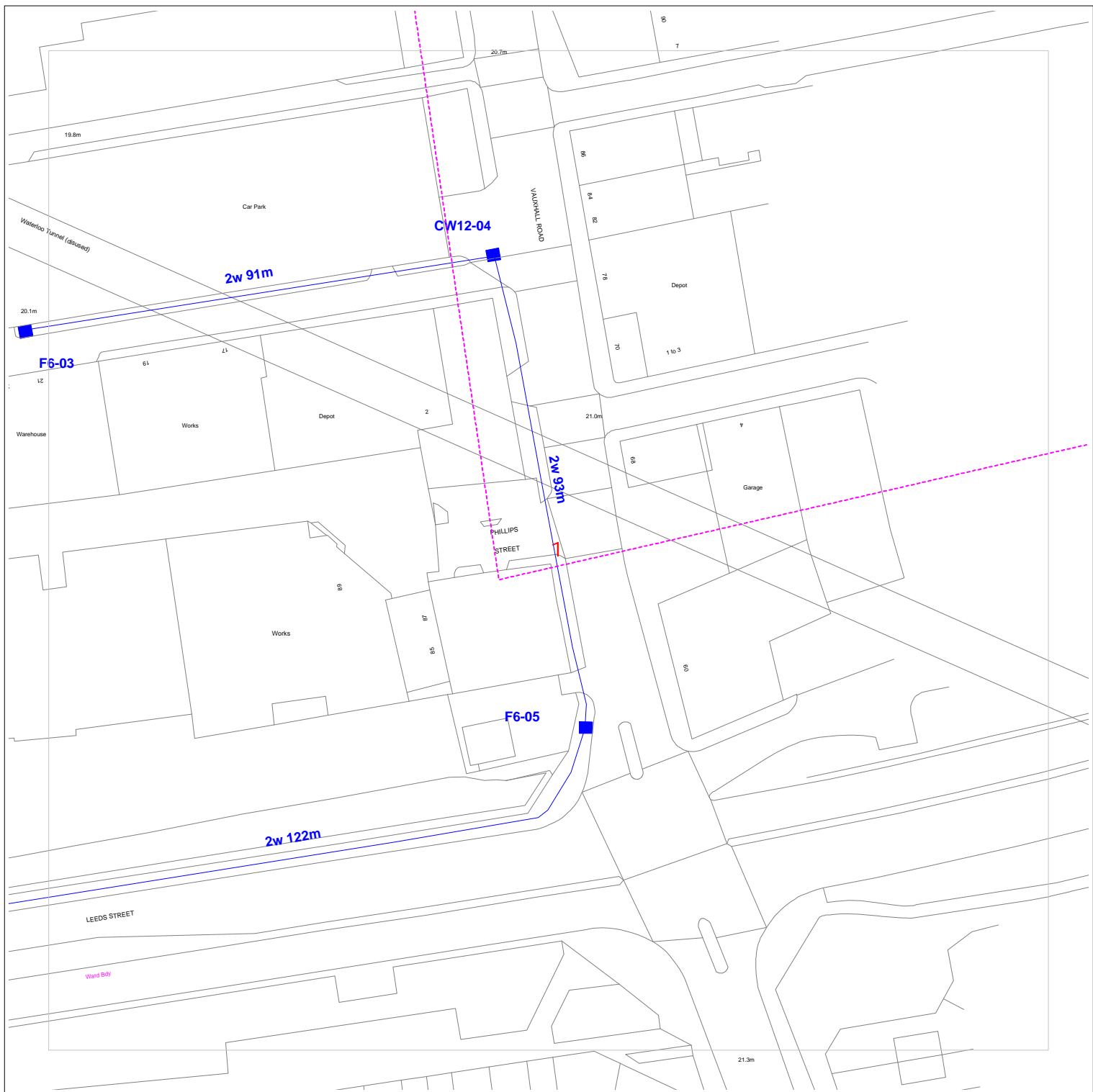
Some of the material on this plot has been reproduced from an Ordnance Survey map with the permission of HM Stationary Office. © Crown copyright and database rights 2012 Ordnance Survey 010051827

Gamma, Streetworks Team  
Unit C, Focal Point, 2nd Avenue  
Trafford Park  
Manchester. M17 1FG  
Phone: 0161 870 3384  
Email: [plantenquiries@gamma.co.uk](mailto:plantenquiries@gamma.co.uk)

Dig Sites:

Area Line

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



Date Requested: 01/02/2018

Requested by: Michael Riley

Job Reference: 12133081

Company: Premier Energy Services Ltd

Scheme/Reference: 603546 - Oriel Street, Liverpool



**2W**

GAMMA FIBRE DUCT & No.

**FW6**

GAMMA FIBRE CHAMBER & TYPE

**FW6**

GAMMA FIBRE OPTIC IN  
OLO DUCT

**FW6**

GAMMA FIBRE OPTIC IN  
OLO CHAMBER



GAMMA POP SITE



GAMMA REGEN SITE

**FW6**

GAMMA FIBRE OPTIC IN  
SHARED CHAMBER



GAMMA FIBRE OPTIC IN  
SHARED DUCT

Gamma, Streetworks Team  
Unit C, Focal Point, 2nd Avenue  
Trafford Park  
Manchester. M17 1FG  
Phone: 0161 870 3384  
Email: [plantenquiries@gamma.co.uk](mailto:plantenquiries@gamma.co.uk)

The Information shown on this map is given as a general guide only. The map is issued without obligation or warranty.  
The accuracy cannot be guaranteed. The Exact position of the ducts should be verified prior to mechanical excavation.  
The Nominal Depth of Duct Cover is:- Carriageway-600m Footway & Verge-350mm. The Fibre Optic cables will not be traceable by use of a "CAT"

**NOTES :- Chamber Lids may be labelled as 'Atlantic'**

Some of the material on this plot has been reproduced from an Ordnance Survey map with the permission of HM Stationary Office. © Crown copyright and database rights 2012  
Ordnance Survey 010051827

Dig Sites:

Area Line

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



## **Appendix C**

### Proposed Load Study

Naylor Street - Phase 1  
Summary of proposed loads

Electricity		Gas		Foul Water		Water	
3x for peak Loading		3x for peak Loading		6x for peak Loading		3x for peak Loading	
Average Loading (kVA)	(kVA)	Average Loading (kW)	(kW)	Average Loading (l/s)	(l/s)	Average Loading (l/s)	(l/s)
85	255	654	1,963	1.8	10.6	1.8	5.3

Anticipated development		Assumed Gross Floor area per building (m2)	
		(m2)	ha
Residential (253 dwellings)		11,301	1.13

Development Type	Electricity Loadings	
	Average Loading (kVA)	3x for peak Loading (kVA)
Residential (253 dwellings)	85.1	255.4
Total	85.1	255.4

Development Type	Water Supply Loadings	
	Average Loading (l/s)	3x for peak Loading
Residential	1.8	5.3
Total	1.8	5.3

Development Type	Gas Loadings	
	Average Loading (kW)	3x for peak Loading (kW)
Residential (253 dwellings)	654.4	1963.3
Total	654.4	1963.3

Development Type	Foul Water Flows	
	Average Loading (l/s)	6x for peak Loading
Residential	1.8	10.6
Total	1.8	10.6



Naylor Street - Phase 1  
General Input

Site	Type of development	%	No. of employees	Plan Area	Floor Area (m2)	House Units	Total area (m2)
Naylor Street, Phase 1	Residential (253 dwellings)			0.22	ha	253	
	1 bed flats/studios	66%			36	167	6,012
	2 bed upsizing flats	34%			62	86	5,289
	2 bed houses	0%			0	0	0
	3 bed houses & larger	0%			0	0	0
	4 bed houses & larger	0%			0	0	0
	5 bed houses & larger	0%			282	0	0
	Sub-total	100%					11,301

Notes

Proposed Electricity Rule of Thumb Calcs For Naylor Street - Phase 1  
Thomasons

Jun-2019

Site	Development Type	Area m2	Loading from TM46 KWh/m2/yr	Annual Average Loading KWh/yr	Average Loading (kVA)	3x for peak Loading (kVA)	
Naylor Street - Phase 1	Residential (253 dwellings)	11,301	60	678,060	85	255	
Total						85	255

Notes

- 1
- Assume 24 hour day
- 2
- Extra 30% of bench mark energy rating assumed for providing controlled humidity environment conditions to storage warehouse facilities only

**Proposed Gas Rule of Thumb Calcs For Naylor Street - Phase 1**  
**Thomasons**

Jun-2019

Site	Development Type	No of properties	Residential Loading (Est) kWh/dwelling/yr	Annual Average Loading kWh/yr	Average Loading (kW)	3x for peak Loading (kW)
Naylor Street - Phase 1	Residential (253 dwellings)	253	20,600	5,211,800	654	1,963
					<b>654</b>	<b>1,963</b>

Notes	1	Residential loading taken from Scotia Gas recommendations. Assumes an average loading for the year
-------	---	--



## Proposed Foul Water Flow Calcs For Naylor Street - Phase 1 Thomasons

Jun-2019

Site	Development Type	No of Dwellings	Residential Loading l/s/dwelling	Average Loading (l/s)	6x for peak Loading (l/s)
Naylor Street - Phase 1	Residential	253	0.007	1.77	10.6
<b>Total</b>				<b>1.8</b>	<b>10.6</b>

### Notes

1. Domestic foul flows from dwellings =0.007l/s/unit based on 4000 l/unit/day divided by peaking factor of 6 divided by 24 divided by 3600

Proposed Water Supply Calcs For Naylor Street - Phase 1  
Thomasons

Jun-2019

Site	Development Type	No of Dwellings	Residential Loading l/s/dwelling	Average Loading (l/s)	3x for peak Loading (l/s)
Naylor Street - Phase 1	Residential	253	0.007	1.8	5.3
Total				1.8	5.3

Notes

1. Domestic water supply flows to dwellings =0.007l/s/unit based on 4000 l/unit/day divided by peaking factor of 6 divided by 24 divided by 3600