



One Manchester

**Proposed Development at
Brigham Street,
Openshaw,
Manchester,
M11 2JJ**

Utility Feasibility Report

Revision V0

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Prepared by:	Nicole Harrison	Utilities Coordinator
Checked by:	David Vickers	Utility Development Manager

1 Project Description

This Utility Statement has been prepared by Technical and Development Services (Northern) Ltd on behalf of One Manchester in relation to a proposed residential development at Brigham Street.

The purpose of the report is to identify the impact of the proposed development site on existing electricity, gas, water and telecoms infrastructure.

The site consists of 33 residential dwellings accessed from Brigham Street and Station Street.

The red edge location plan shows the proposed development area which compromises approximately 1.94 acres (78 hectares).

The grid reference for centre of the site is: (X: 388254, Y: 397797)



2 Overview

Following a review of the developments effect on existing infrastructure, requirements for proposed infrastructure and relevant applications to utility companies the following overview can be provided. This overview aims to provide clarification of the possible design, programme and cost implications of works required.

Diversions		
Utility	Item	Cost
Electricity	Diversion of Low Voltage apparatus to facilitate proposed new development.	Electricity North West budget cost of £2,162.81
Gas	Abandonment of Low Pressure apparatus to facilitate new development	Cadent Gas budget cost of £26,000.00
Water	No Diversion Anticipated	
BT Openreach	No Diversion Anticipated	
Virgin Media	No Diversion Anticipated	
Connections		
Utility	Item	Cost
Electricity	Point of Connection from the Low Voltage main on Victoria Street	£1,596.00
	Reinforcement	N/A
	Cable Lay to site approx. 135m	£27,000.00
Gas	Point of Connection from the low pressure main on Meech Street	Included in Connections Cost
	Reinforcement	N/A
	Pipe Lay to site approx. 5m	£1,000.00
Water	Point of Connection from the existing 4" AC on Meech Street and the 100mm DI water main located on Brigham Street	Included in Connections Cost
	Reinforcement	N/A
	Pipe Lay to site	£2,000.00
Electricity, Gas and Water Connections on Site	33 Number of Plots at £1800 per plot	Budget Cost £59,400.00

Budget figures provided by TDS Northern Ltd are based on a range of information derived from existing network records and previously secured quotations however TDS Northern do not have access to detailed network information and contractor rates and therefore budget figures should be used as a guide only.

3 Review of Existing Infrastructure

3.1 Electricity

3.1.1 Electricity Northwest

The existing electricity infrastructure within the vicinity of the site is owned and operated by Electricity Northwest as a licenced Distribution Network Operator. The below plan shows existing Electricity Northwest infrastructure records in the vicinity of the site. (For more detailed plans see the **APPENDIX 1**).

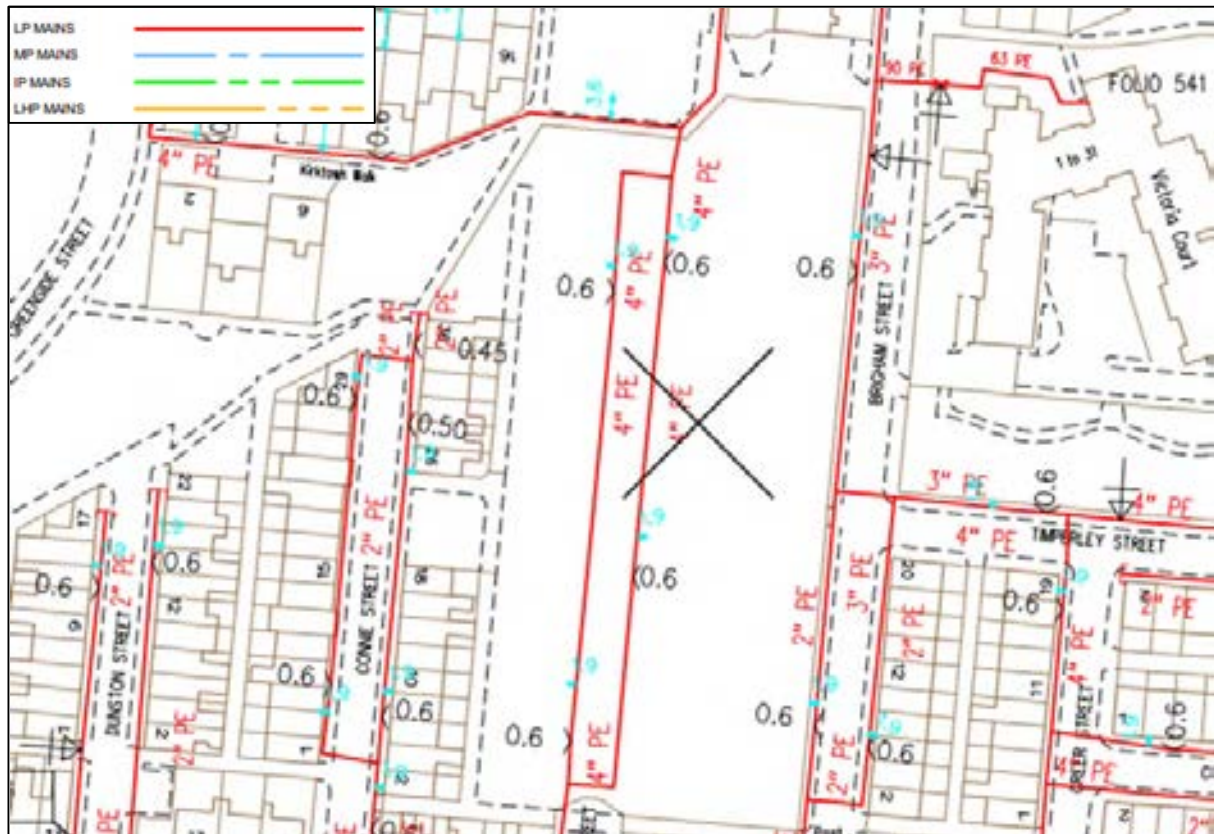


Electricity Northwest have 415V Low Voltage cables running within the proposed development. There are underground 415V Low Voltage cables running in footpath to the nearside of the development on Brigham Street. Running from Meech Street up Station Road on both sides of the carriageway, there are 415V Low Voltage cables that run through the proposed development to the North.

3.2 Gas

3.2.1 Cadent Gas

The existing gas infrastructure within the vicinity of the site is owned and operated by Cadent Gas as a licenced Gas Transporter. The below plan shows existing Cadent Gas infrastructure records in the vicinity of the site. (For more detailed plans see the **APPENDIX 1**).



Cadent Gas have 4" PE Low Pressure Main running through the proposed development from Station Road. To the East, on Brigham Street there is a 3" PE Low Pressure main that carries on down Timperley Street and changes to a 2" PE Low Pressure main to the Southeast.

3.3 Water

3.3.1 United Utilities

The existing water infrastructure within the vicinity of the site is owned and operated by United Utilities as a licenced water network operator. The below plan shows existing United Utilities infrastructure records in the vicinity of the site. (For more detailed plans see the **APPENDIX 1**).

Clean



United Utilities have 100mm DI distribution main running to the nearside of the proposed development on Brigham Street also with a stop tap and an air valve on the street.



On Meech Street there is a 4" AC distribution main that leads to 2 abandoned pumps and 2 now abandoned distribution mains. There are 2 abandoned hydrants within the proposed development.

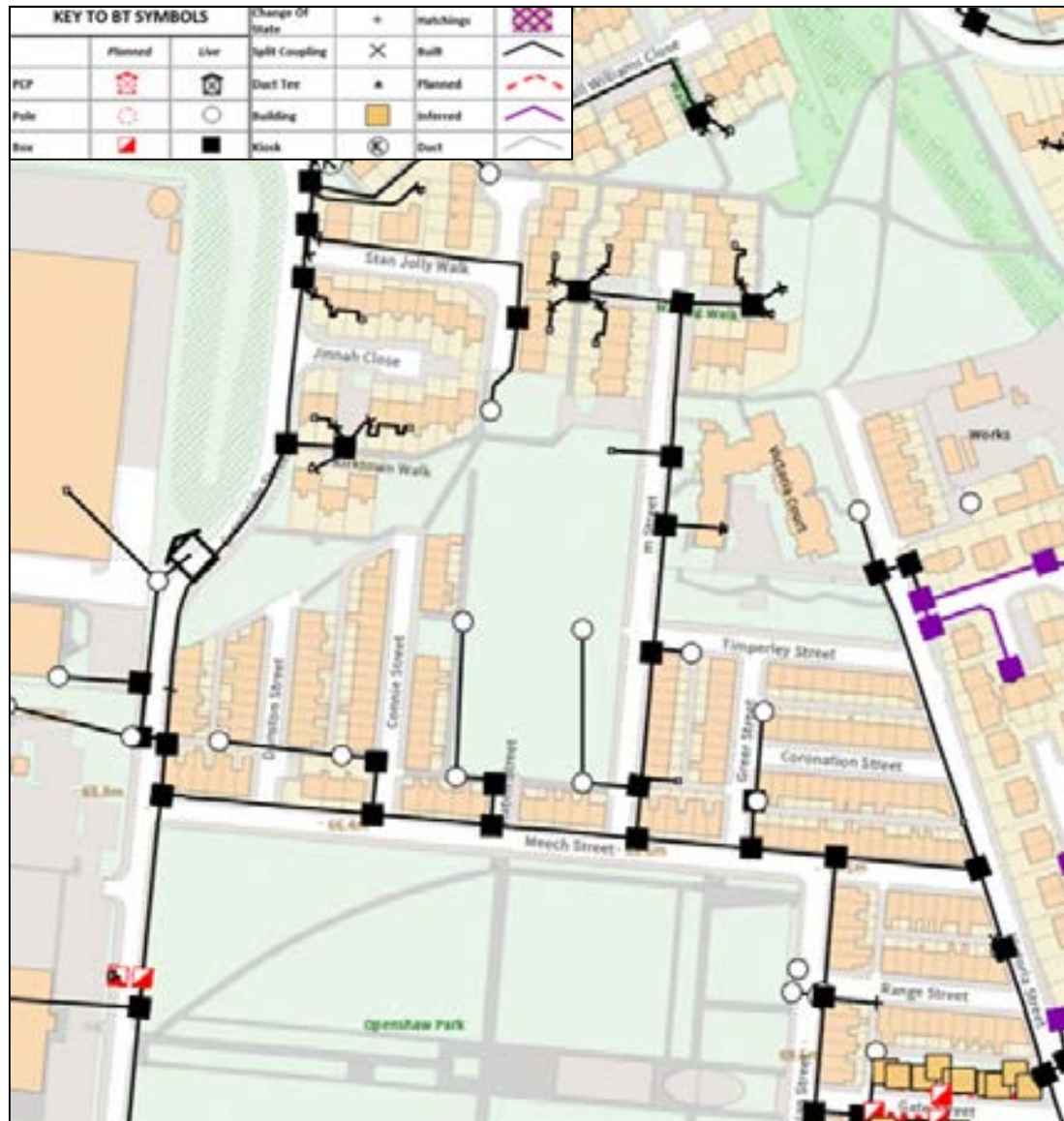
Waste

United Utilities have multiple combined public sewers running through the proposed development. There are 5 manholes within the proposed development.

3.4 Telecoms

3.4.1 BT Openreach

BT Openreach own and operate existing telecommunications infrastructure within the vicinity of the proposed site under its rights derived from the telecommunications act. The below plan shows existing BT Openreach infrastructure records in the vicinity of the site. (For more detailed plans see the **APPENDIX 1**).



BT Openreach have poles to the West of the proposed development and Southwest with overhead cables connecting these. To the East of the proposed development, on Brigham Street, there are underground cables running on the opposite side of the carriageway. To the Northeast, there is a chamber within the site and further West there is another pole running to the boundary of the site.

4 Development Impact on Existing Infrastructure

4.1 Electricity

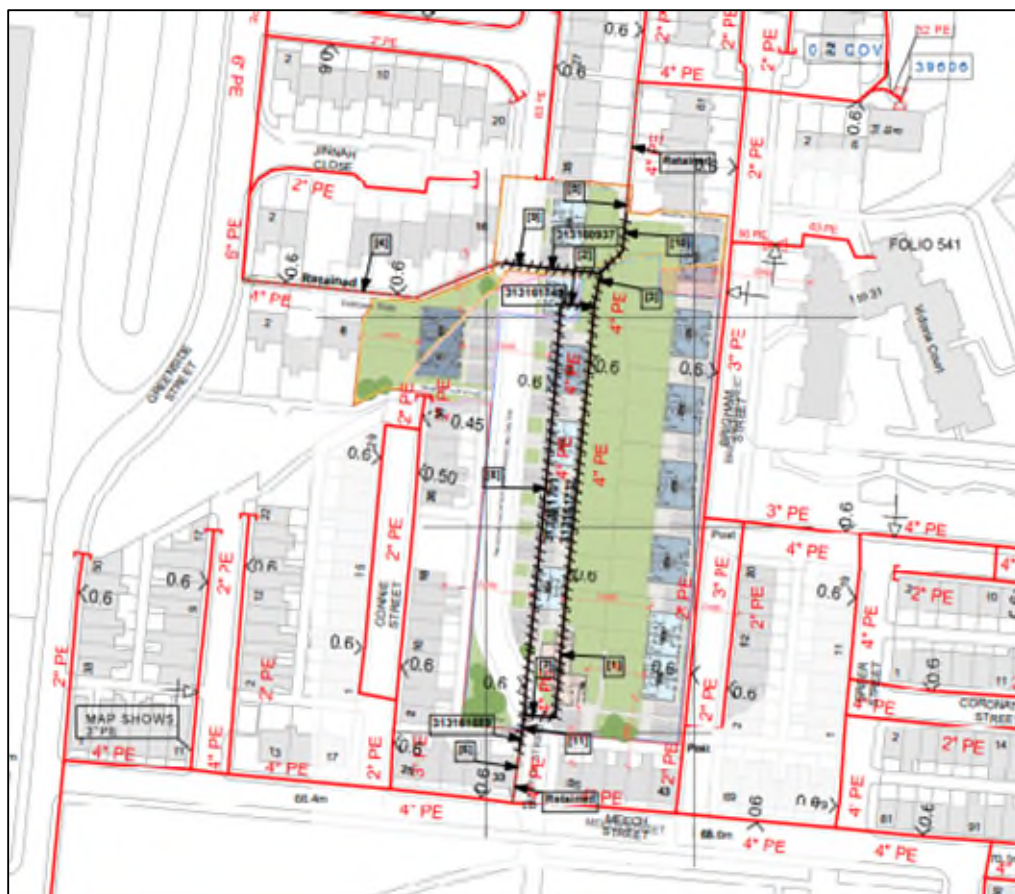
4.1.1 Electricity Northwest

Electricity North West have provided a budget cost **Reference number and date** of £2,162.81 for the diversion of 2no Low Voltage cables. Note that this is excluding the disconnection of the services through site, this is anticipated to be the responsibility of the Client.

4.2 Gas

4.2.1 Cadent Gas

Reference number and date Cadent Gas have provided a budget cost of £26,000.00 for the cutting off of the affected gas mains .



4.3 Water

4.3.1 United Utilities

No diversion is required.

4.4 Telecoms

4.4.1 BT Openreach

Openreach have advised that based on the proposed site layout, the existing apparatus will not require diverting. The existing poles in and around the land are not in use and appear to have been recovered. Openreach have also advised that as the new access road is a continuation of the existing Stanton Street and Stan Jolly Walk, the apparatus will again not be affected. **Reference number and date**

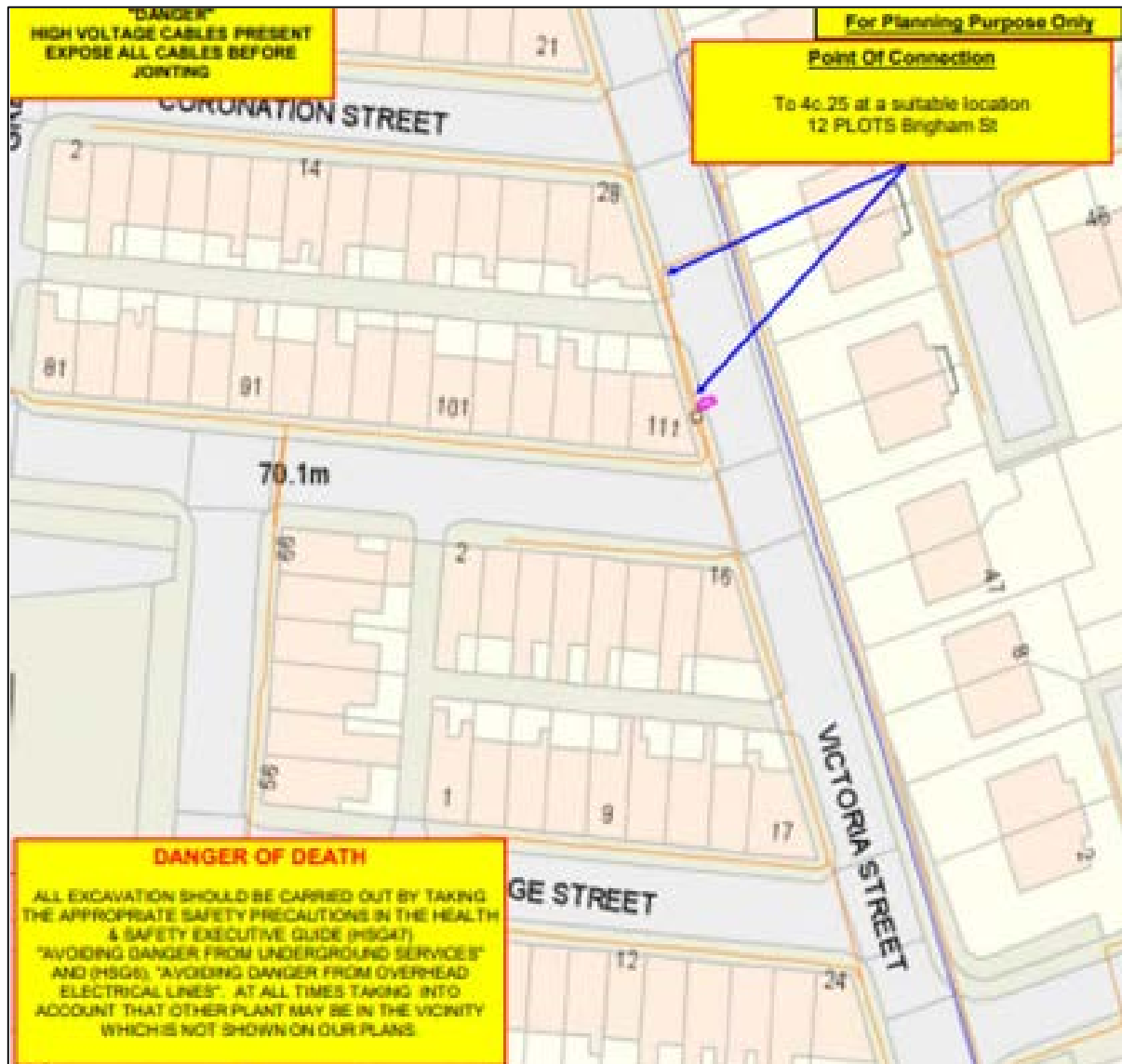
5 Points of Connection

5.1 Electricity

5.1.1 Electricity Northwest

In order to determine the capacity of the local electricity network to service the site, an application was made to Electricity Northwest for a Point of Connection.

A response has been received from Electricity Northwest, dated 7th July 2021, reference 5500206761/A for a cost of £1,596.00 inc VAT. The specified point of connection is from the 415V Low Voltage network on Victoria, 135 meters from the site entrance. The below plan shows the location of the connection.



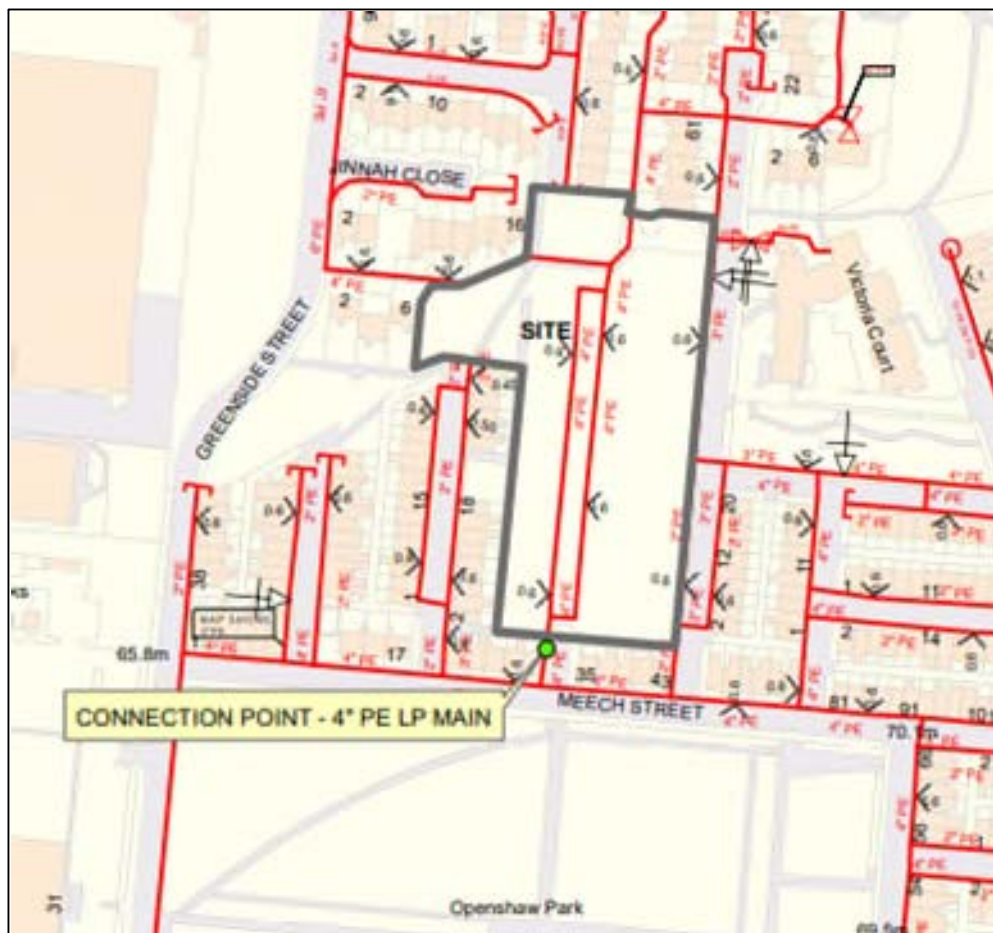
5.2 Gas

5.2.1 Cadent Gas

In order to determine the capacity of the local gas network to service the site, an application was made to Cadent Gas for a land enquiry.

A response has been received from cadent Gas, dated 23rd June 2021, reference 180013490. The specified point of connection is from the 4" PE Low Pressure gas main on Station Street, 5 meters from the site entrance.

The below plan shows the location of the connection.



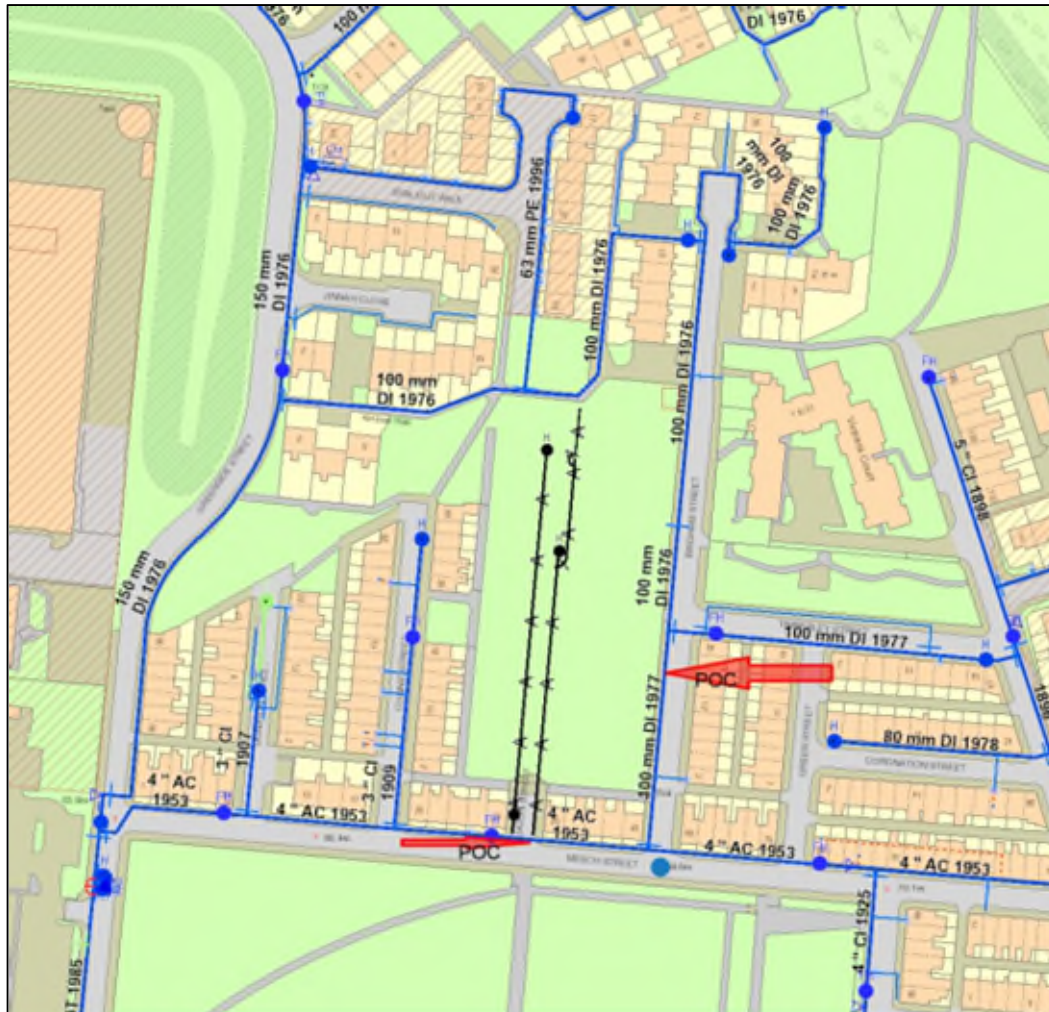
5.3 Water

5.3.1 United Utilities

In order to determine the capacity of the local water network to service the site, an application was made to United Utilities for a pre-development enquiry.

A response has been received from United Utilities, dated 29th June 2021, reference JAD/4100493173. The specified point of connection is from the existing 4" AC 1953 water main located on Meech Street and the 100mm DI 1977 water main located on Brigham Street.

The below plan shows the location of the connection.



5.4 Telecoms

5.4.1 BT Openreach

Access to good broadband is vital in today's world. It is intrinsic to growing a sustainable local economy, vital for education, home working and an increasingly central part of community cohesion and resilience, particularly in rural areas. In addition, local authorities and other public services are increasingly reliant on digital infrastructure to provide services and interact with residents. This means not just ensuring a premise is ready to receive high speed broadband into the home or business, but also that network is actually in place to deliver high speed broadband to the premise.

The Government recognises that, reliable broadband internet access is essential for homes throughout the country to benefit from online services, and for UK businesses to compete globally. The National Planning Policy Framework (NPPF), which came into force in 2012, recognises the importance of infrastructure in delivering sustainable economic growth, and states that 'Advanced, high quality and reliable communications infrastructure is essential for economic growth and social well-being. Planning policies and decisions should support the expansion of electronic communications networks, including next generation mobile technology (such as 5G) and full fibre broadband connections.

The UK currently has superfast connectivity to 95% of premises, however Fibre to the Premises (FTTP) is only available to 4% which falls significantly behind that of world leaders. It is the government's current target, via its Department for Digital, Culture, Media & Sport, that 15 Million premises should be connected to full fibre broadband by 2025, with Nationwide coverage by 2033. In their Future Telecoms Infrastructure Review, the government proposes changes to legislature that encourages FTTP to all new build development.

As a result, Openreach launched their Fibre First initiative to deliver FTTP connectivity to 4.5m million premises by March 2021, which is expected to be followed by their ambition for achieving 15 million premises passed by around 2025 and then possibly the "majority" of the United Kingdom at a later date. Openreach have offered free FTTP connections to new housing developments over 30 plots for a number of years and in January 2019 reduced the threshold to 20 properties or more.

BT Openreach own and operate existing telecommunications infrastructure within the vicinity of the proposed site under its rights derived from the telecommunications act. The below plan shows existing BT Openreach infrastructure records in the vicinity of the site where black denotes existing infrastructure and red denotes proposed infrastructure.



Infrastructure records show that the development has infrastructure within close proximity of the site and can be registered with BT Openreach FTTP to assist them with planning the proposed infrastructure to the development and as part of BT Openreach's 'Fibre First' Initiative. It is likely the development will be served with full Fibre to the Property infrastructure benefitting from speeds up to 1.0GBPS.

6 Summary

It can be concluded from the formal responses received from the host asset owners of the gas, water and electricity infrastructure that all the main utilities are all available within the local area to serve the proposed development. These connection points are within the local road network with minimal impact on the surrounding environment.

No major reinforcement is required.

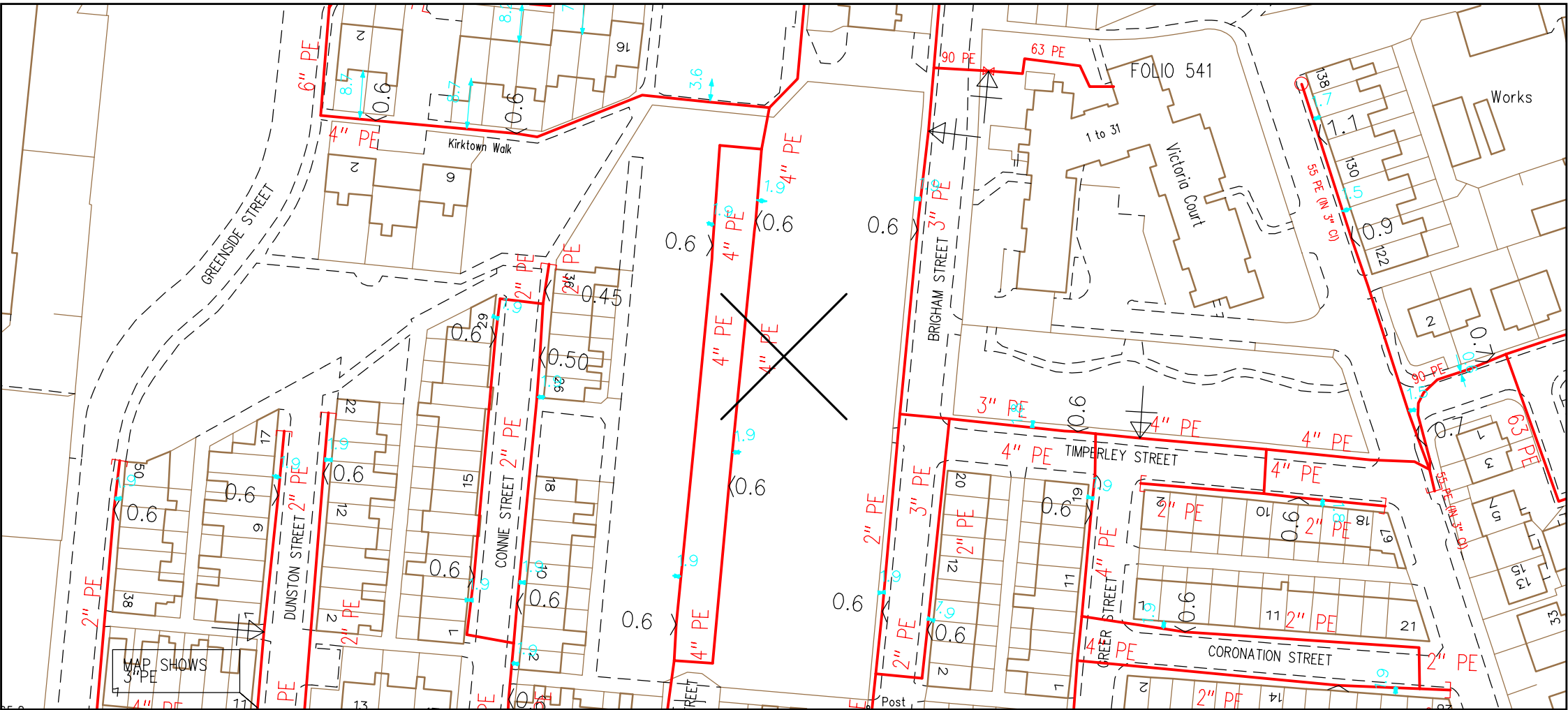
The electricity connection will be provided from a Low Voltage cable on Victoria Street approx. 135m from the site entrance.

The gas point of connection will be from the 4" PE Low Pressure main on Station Street, approximately 5m from the proposed development.

The water point of connection will be from the existing 4" AC 1953 water main located on Meech Street and the 100mm DI 1977 water main located on Brigham Street.

APPENDIX 1 – Existing Utilities





SCALE: Not to scale
USER ID: Alex Kelly
DATE: 16/06/2021
EXTRACT DATE: 01/03/2021
MAP REF: SJ8897
CENTRE: 388230, 397813

LP MAINS	
MP MAINS	
IP MAINS	
LHP MAINS	

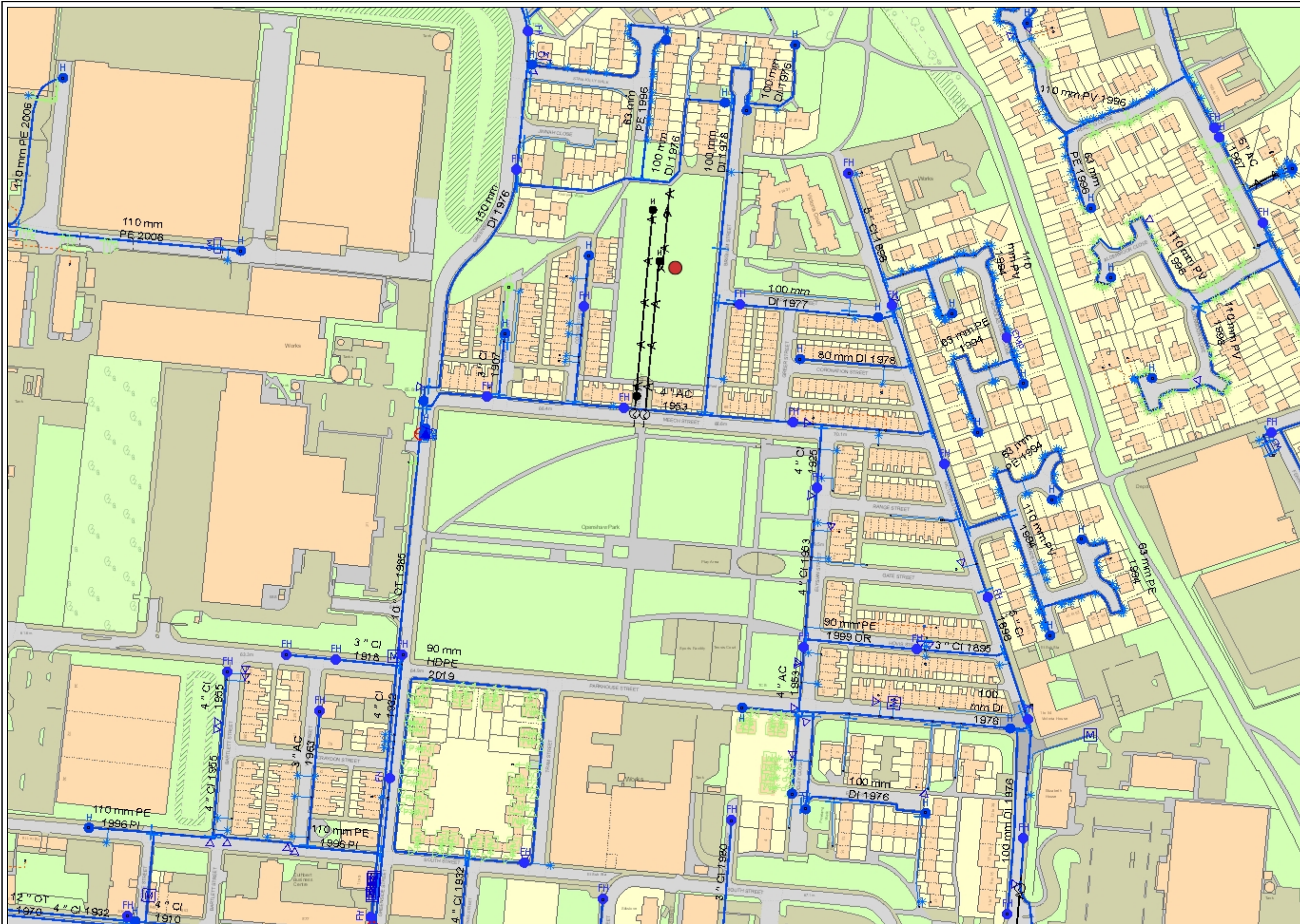
This plan shows those pipes owned by Cadent Gas Ltd in their role as a Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown on this 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.

MAPS Viewer Version 5.8.0.1

Local Machine

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.

Some examples of Plant Sema:



United Utilities Maps for SafeDig

Date : 16/06/2021 10:56:35

Centre X:	388220
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Centre Y:	397702
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Scale : 2000

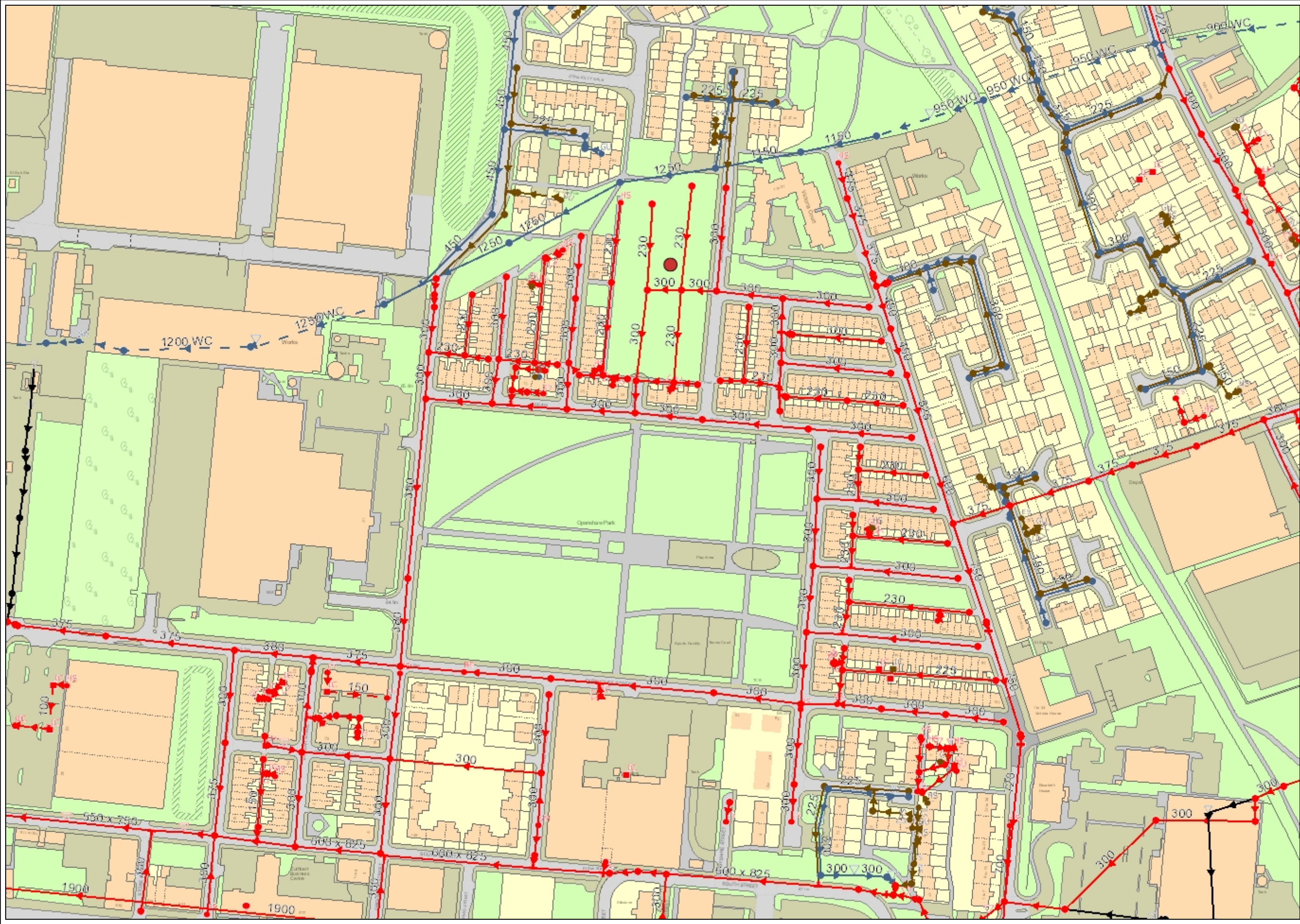
UserName:	G4LG72Y
-----------	---------

Extract from maps of United Utilities' Underground Assets

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 service pipes may be shown by a blue broken line. United Utilities Water will not accept liability for any damage caused by the actual position being different from those shown.

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United Utilities Maps for SafeDig

Date :	16/06/2021 10:57:09
Centre X:	388220
Centre Y:	397702
Scale :	2000
UserName:	G4LG72Y

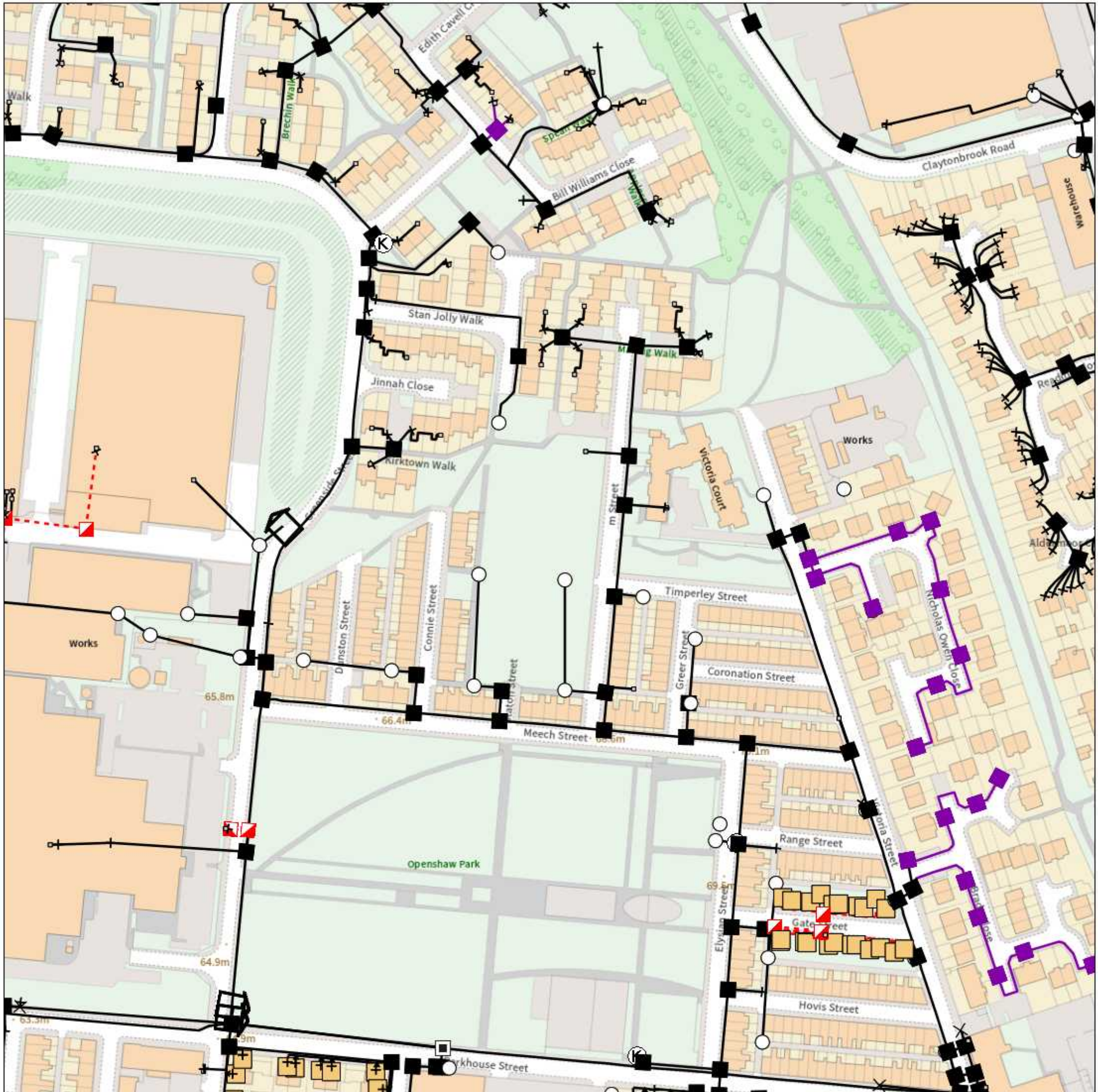
Extract from maps of United Utilities' Underground Assets

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 service pipes may be shown by a blue broken line. United Utilities Water will not accept liability for any damage caused by the actual position being different from those shown.

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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

KEY TO BT SYMBOLS

	Planned	Live	Change Of State	+	Hatchings	
PCP			Split Coupling	X	Built	
Pole			Duct Tee	▲	Planned	
Box			Building		Inferred	
Manhole			Kiosk	K	Duct	
Cabinet			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 : UIR10571X

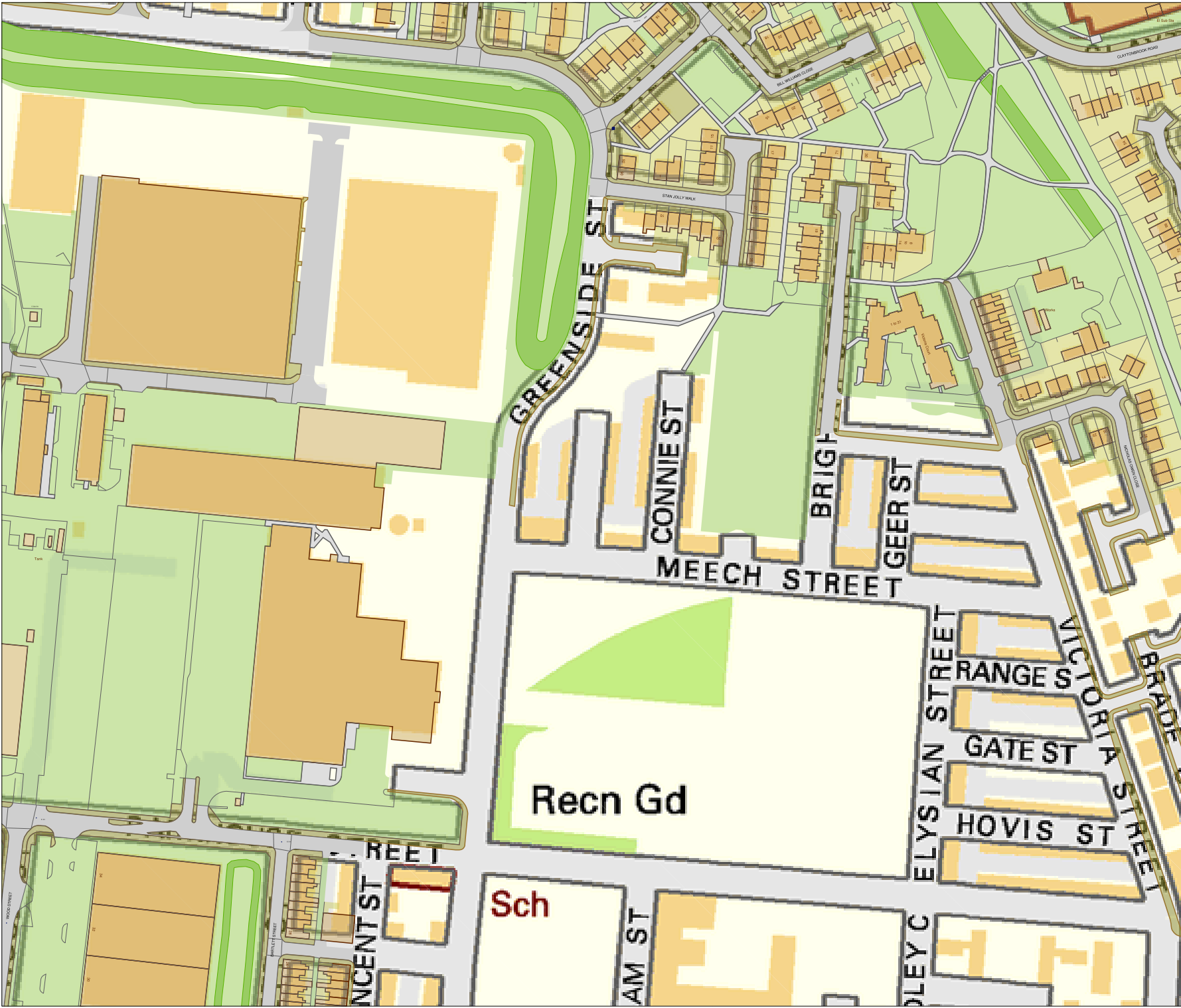
Map Reference : (centre) SJ8823097813

Easting/Northing : (centre) 388230,397813

Issued : 16/06/2021 10:57:54

Reproduced from the Ordnance Survey map by BT
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Controller of Her Majesty's Stationary Office
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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



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: 01/07/2021

Drawing No. CFH_EP_000001
Revision 001

Scale: 1:2500
A4
0m 20m 40m 60m 80m 100m

APPENDIX 2 – Diversion Quotations

16/07/2021



TDS

For the attention of David Vickers

Our ref: 5500206560 A

Dear Sir,

RE: Brigham St Manchester M11 2JJ

Further to your enquiry in relation to the above scheme, I can now confirm the outline arrangements required for the diversion of Electricity North West Limited's apparatus.

Our scope of works broadly includes the following: -

- Diversion of two low voltage cables
- It is the client's responsibility to arrange the disconnection of all affected services and street lamps prior to diversion works commencing on site

These proposals are shown on the attached drawing.

Estimated Costs

The estimated cost of this work, based upon Electricity North West Limited interpretation of your submitted details, is estimated at £2,162.81 plus VAT.

Please note that Electricity North West Limited's final charges will be rendered on an actual cost basis, based upon the labour and material utilised to complete the project and using the actual labour rates, contractor charges and material costs ruling at the time the work is carried out.

Please refer to the enclosed specific caveats and general estimate qualifications for further details relating to the estimate.

This estimate will remain open for acceptance for 180 days from the date of this letter. If you wish to proceed after the expiry of 180 days a revised estimate may be necessary.

Programme

Generally, 12-14 weeks' notice is required from when your payment is received before we can commence work on site. These timescales may however be extended due to restrictions imposed by the local authority under the New Roads and Street works Act.

Once the scheme has been handed over to our construction team and following liaison with the Local Authority, a more accurate time scale and program of works will be provided.

Should you wish to proceed with this project, please return the attached 'Acceptance Form'.

I trust the above meets with your approval and should you require any further information, do not hesitate to contact this office. Please ensure that all correspondence carries the reference shown at the top of this letter.

Yours faithfully

Chris Cliff
Design Engineer
Infrastructure Solutions
Electricity North West Limited

Tel No: 07940 223983

chris.cliff@enwl.co.uk

Specific Caveats

- (a) It is the client's responsibility to arrange the disconnection of all affected services and street lamps prior to diversion works commencing on site

General Estimate Qualifications

The Estimate is based on the following qualifications, which are in addition to the "Conditions of Contract for Alterations to Electricity North West Limited's Electrical Infrastructure Imposed by A Third Party" (available upon request):

- (b) Electricity North West Limited's final charges will be rendered on an actual cost basis, based upon the labour and material utilised to complete the project and using the actual labour rates, contractor charges and material costs ruling at the time the work is carried out.
- (c) Any costs associated with connection and / or disconnection of street furniture have not been included in this estimate unless otherwise stipulated. Disconnection requests from the asset owners should be referred to Electricity North West Connections if applicable.
- (d) This estimate assumes that all facilities and information would be made available to enable our works to be carried out with reasonable continuity.
- (e) Any excavation through or removing obstructions will extend the working time and incur additional costs. However, final charges for the scheme will be based on actual costs incurred.
- (f) All work is carried out in normal working hours.
- (g) Any variations to these diversions for additional work due to unforeseen problems will be agreed between Electricity North West and you as work proceeds. The cost of this additional work will be chargeable to you.
- (h) Any excavation undertaken by Electricity North West is assumed to be in ground free from contamination.
- (i) The above estimate is subject to any additional consideration, third parties included, which Electricity North West Limited may require in the surrender or negotiation of any legal interests, easements, and rights of way, which may affect the site notwithstanding Electricity North West Limited's statutory rights under the Electricity Act.
- (j) Where additional consideration is required, the cost of acquiring the agreements will be recharged to you. Please be aware that such agreements often have long lead in times. It is recommended that you make allowance in your programme for the same.
- (k) Any requests for ducts to be installed by you or your principal contractor must be agreed well in advance of works commencing on site.
- (l) Where ducts are to be installed by the Principal Contractor for Electricity North West's use, these ducts will be supplied by Electricity North West and installed to Electricity North West specifications. The exact depth and position of such ducts should be agreed on site with the Electricity North West Project Supervisor. We reserve the right to supervise or inspect any duct installation work.
- (m) The lines and levels of new and existing cables shall be kept to Electricity North West specification. The customer or their representatives will mark out proposed finished lines and levels as requested by ENWL.
- (n) Upon completion of our works all disconnected cables will be left in situ, some of which will fall within your site. Such cables will be disconnected at the extremities of our work area only. No allowance has been made for the recovery of any such apparatus. ALL CABLES ON SITE MUST BE ASSUMED LIVE UNLESS PROVED DEAD BY ELECTRICITY NORTH WEST AUTHORISED PERSONNEL USING ELECTRICITY NORTH WEST APPROVED PROCEDURES.
- (o) Please note that it may be necessary to cancel any outages, sometimes at very short notice or even restore circuits once work has started, due to system loading problems or circuit faults in adjacent circuits. Electricity North West will endeavour to reduce any impact on your programme of works and costs incurred but will not be held responsible for any costs incurred by you as a result of the cancellation of the works or delay to commencement.

Health and Safety

The following information is given to assist you in maintaining safe working practices on the site:

- (a) Electricity North West plans carry an endorsement stamp that is there for your safety. Before any machines are used, all underground plant should be located by manual excavation. All excavation should be done by taking the appropriate safety precautions in the 'Health and Safety Executive Guidance Note G47' "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, including uncharted and private cables.
- (b) Ensure that the current issue of plans is referred to when commencing work on site.
- (c) Any work carried out in the vicinity of any overhead conductors by you or your contractors must be carried out in accordance with the requirements of the Health and Safety Executive (HSE) document GS6 "Avoidance of Danger from Overhead Electric Lines".
- (d) If any plant or apparatus is damaged this should be reported immediately to Electricity North West on 0800 195 4141. Please ensure that all your site operatives have this information.
- (e) You will have a better knowledge of your site and if there are any hazardous processes, operations or materials (including structural materials) on the site, kindly let us know so that appropriate precautions may be taken.
- (f) Our cable records indicate that there are several Electricity North West cables in the vicinity of this project. **ALL CABLES ON SITE MUST BE ASSUMED LIVE UNLESS PROVED DEAD BY ELECTRICITY NORTH WEST AUTHORISED PERSONNEL USING ELECTRICITY NORTH WEST APPROVED PROCEDURES.**
- (g) Electricity North West considers that the project will be governed by the requirements of the Construction (Design and Management) Regulations 2015 (CDM 2015). Before commencement of work, can you please provide us with the name, addresses and contact telephone number of the organisation and personnel who will undertake the following roles: -
 - 1. Client
 - 2. Principal Designer
 - 3. Principal Contractor
 - 4. Contractor (if different)

This information will enable us to complete our Health and Safety documentation prior to the commencement of the work.

Diversion Estimate – Acceptance Form

To: Chris Cliff
Electricity North West Limited
Diversions & Disconnections Team
Hartington Road
Preston
PR1 8AF
E-mail: Diversions@enwl.co.uk

Project Number: 5500206560 A

Site Address: **Brigham St Manchester M11 2JJ**

If known at this stage, please provide an estimated start date that you require Electricity North West on site:

Date: _____

I accept the estimate of cost, caveats and terms and conditions for the diversion of Electricity North West assets as per your letter dated .

Please forward Electricity North West Limited's invoice to me for £2,162.81 plus VAT.

Note: Payment is required before work commences. You are now able to pay by BACS transfer.

During the current Coronavirus controls, please do not pay by cheque

To Pay by BACS / CHAPS Please raise a payment for £2,162.81 plus VAT to Electricity North West Limited Account Number 00657315 Sort Code 30-00-02 Please quote your project reference in the reference field

Name: _____

Signature: _____

Position: _____

Company: _____

Date: _____

The invoice for the work is to be sent to:

Name: _____

Position: _____

Company: _____

Address: _____

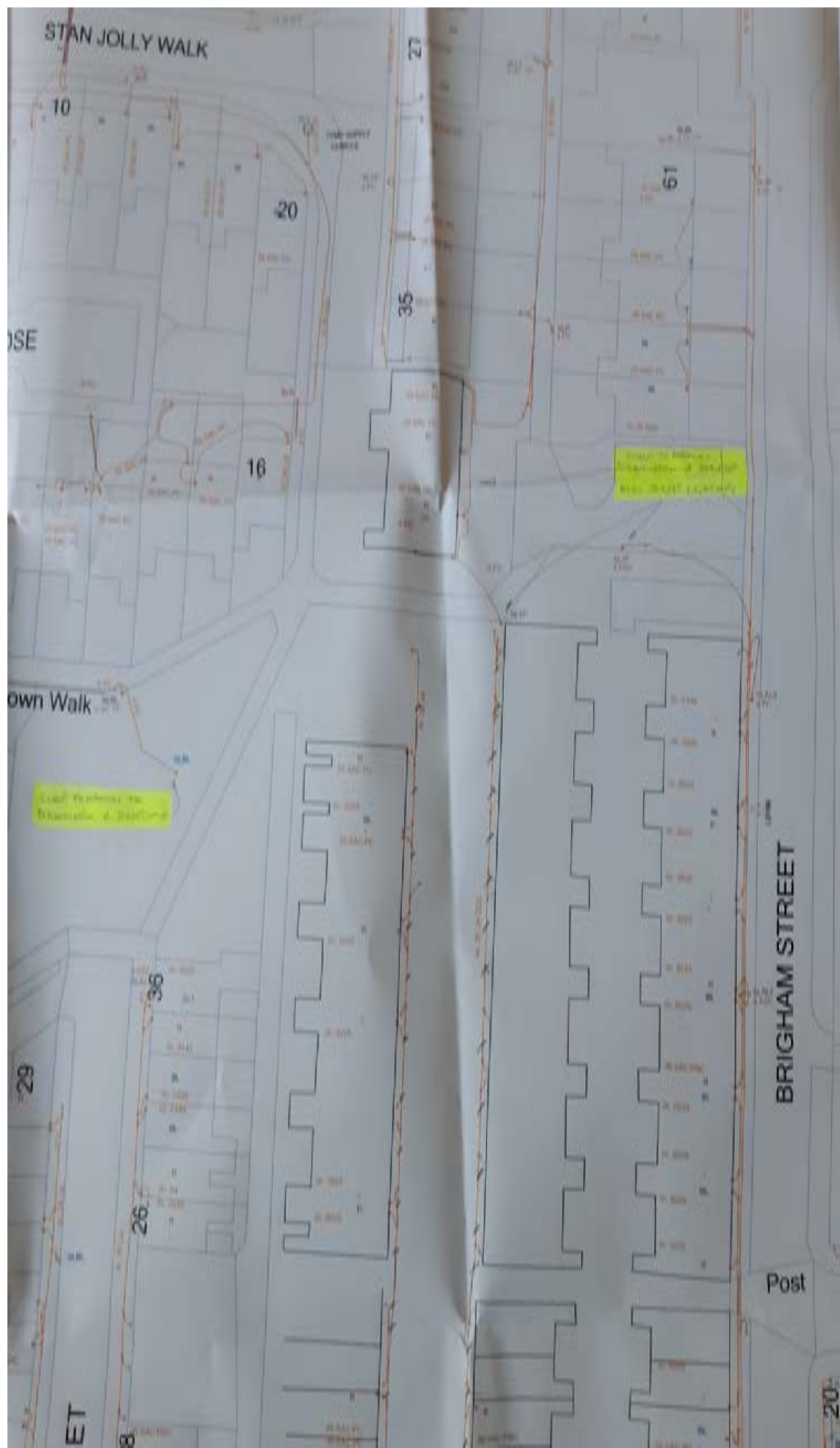
Please provide details of the person we need to contact to arrange the works

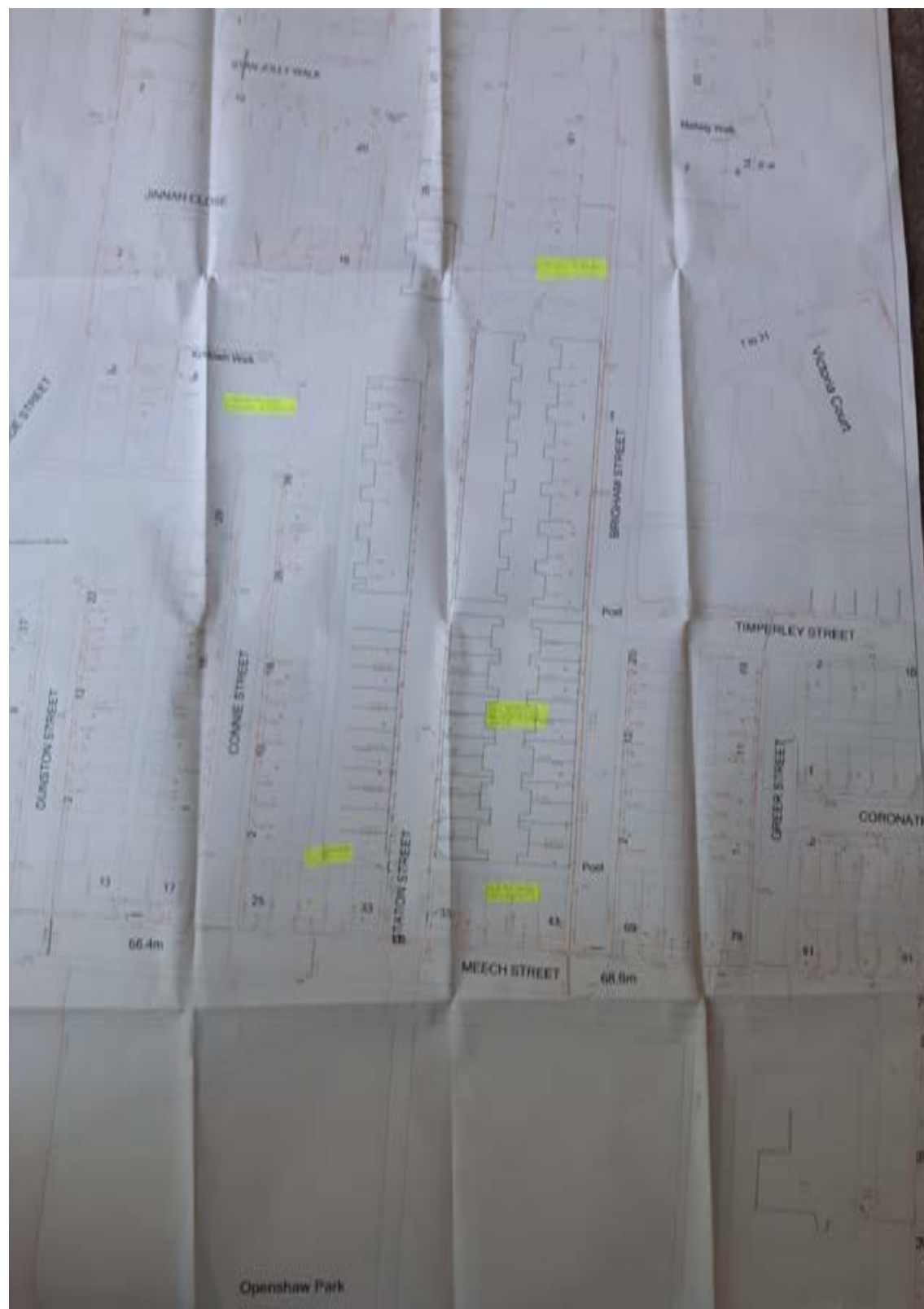
Project Manager: _____

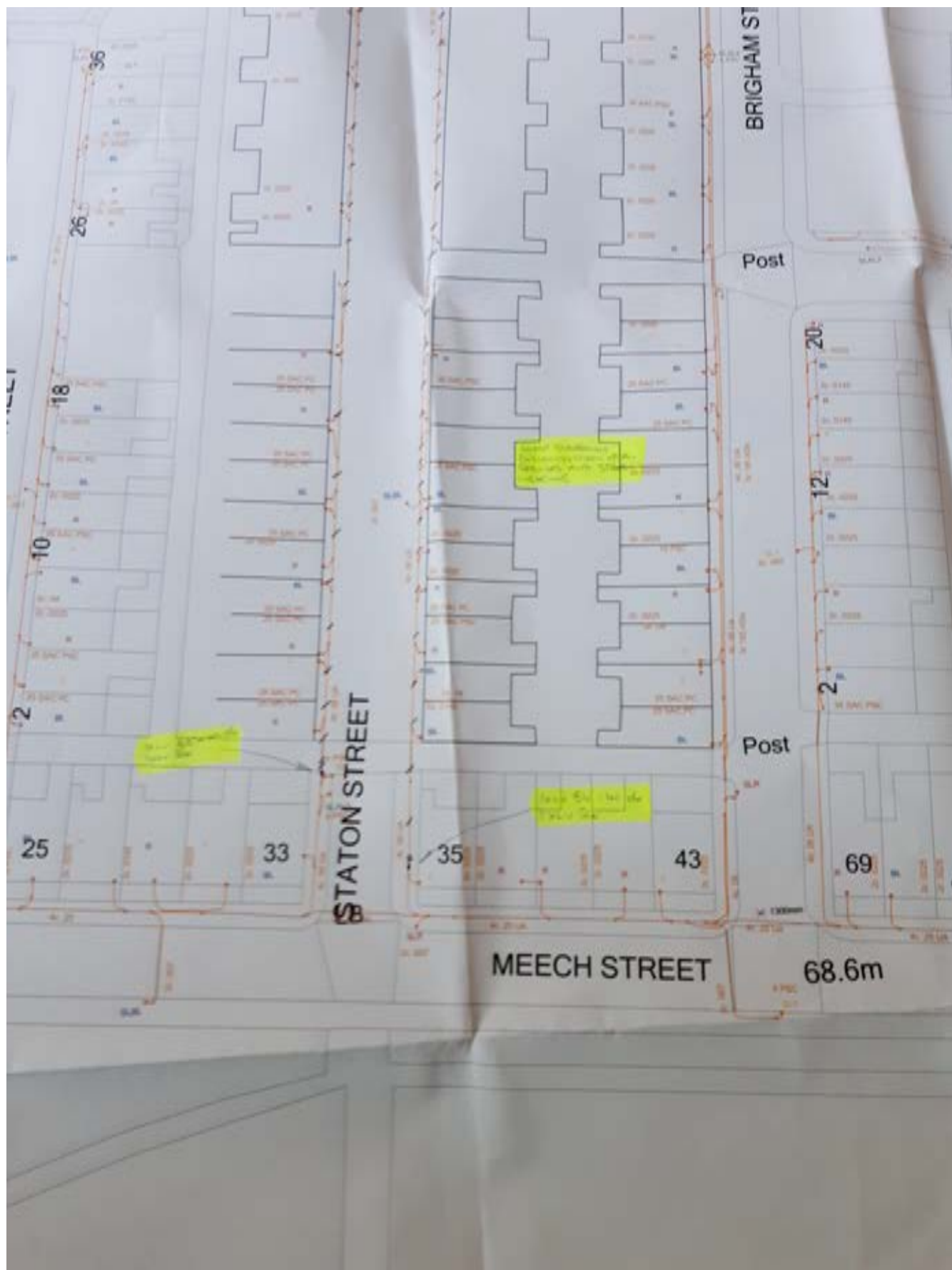
Company: _____

Contact Telephone No: _____

Contact E-mail Address: _____







Diversion Information Booklet





Welcome to Electricity North West and thanks for choosing us to provide a design and cost for the electricity diversions needed for your project.

Our focus is to ensure we deliver a safe, affordable and reliable supply to our customers.

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After your diversion	5
Shared trench installations	6
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SAFETY FIRST

Never attempt to move a cable yourself. Treat all cables and services as LIVE unless they have been confirmed DEAD.

Thank you for your recent application for an electricity asset diversion.

Included in this booklet you will find useful information to answer some of the queries you may have and to help you plan for the diversion of our assets.

We carry out diversion works to make sure that you and your contractors can work safely on site by reducing the possibility of contact with, or damage to existing cables, overhead lines and other electrical distribution equipment.

It is also essential that we maintain safe, quick access to our cables once your work is completed. This helps to reduce the time taken to repair faults when customers are off supply and also allows access to the cables for future connection of new supplies.

When we receive your enquiry, our design team will make sure we have sufficient information and then prepare and issue a design and cost estimate for your diversion and this price is valid for a period of six months. The estimate will be based on our interpretation of your proposed works. If you have any queries, please discuss these with our design engineer.

Once you have accepted your diversion project, we will assign a diversion works coordinator to you. Your coordinator will be responsible for delivering the project on behalf of Electricity North West and will be able to answer any of your questions and make sure everything goes to plan.

For more information visit our web page: www.enwl.co.uk/diversions

We hope you find the information in this booklet useful and we look forward to working with you.

If you need to contact us at any time during your enquiry, or throughout the process, please email us at Diversions@enwl.co.uk



Timescales

After all legal consents are in place, work usually starts within 12 weeks of payment, this allows us time to notify the local authority of the works and gain permission to excavate in footways and carriageways.

The time on site is dependent on the extent of works required and your coordinator will be able to advise you further.

Please be aware that during busy periods these times may vary.

Existing cables

To avoid unnecessary cost and environmental impact, all existing cables are left in the ground after the new cables are energised.

The cables will be identified as dead at the point of diversion, but it is important that your site contractors take care when excavating.

You should follow the HSE guidelines in document HS (G) 47 to employ safe dig methods to avoid contact with the new and old cables.

If you require us to re-visit site to prove any old cables dead or to identify other assets, this will result in an additional charge.

Overhead lines

If your project is on land that contains, or is close to an overhead line or tower, you may need to have the line diverted or protected whilst you work nearby.

It is your responsibility to ensure that all works on your site are carried out in a safe manner and avoid the need for plant and equipment to come into close proximity to overhead lines.

Our overhead line network is installed on wooden poles and steel towers and operates at voltages up to 132,000 volts.

You do not need to make contact with a power line for electricity to flow, a spark can jump across gaps in the air. You must ensure safety clearances are maintained near overhead lines.

Information can be found in the Health and Safety Executives GS6 document online.

“ You must ensure safety clearances are maintained near overhead lines ”



Supply interruptions

Our work may require a supply interruption, which means we need to turn off other customers on our network. We have an obligation to make sure that sufficient notice is given to these customers to allow them time to plan for this. This notice period (usually no less than 30 days) may have an impact on available outage dates.

Variations

Our initial estimate is based on criteria which is detailed in our offer letter, but it is not uncommon for variations to occur once work starts on site and as the job progresses.

Your coordinator will keep you informed of these variations, will explain any cost and programme implications and seek approval of the variations as work proceeds. The final cost will be reflective of the work that we actually complete.

Completion and final account

Once we have completed our work on site, we will prepare a final valuation of the works and produce a final account statement for you. This normally takes up to three months from completion.

You will only be charged for the actual work we have completed. If, after variations, this turns out to be less than the initial estimate and your upfront payment, we will refund the difference back to you. Our Commercial team will write to confirm the final balance.

If there is an increase in cost due to variations, a supplementary invoice will be raised at the final account stage and details will be provided to you by our Commercial team to explain the increased costs incurred.

1

Quotation

Our design team will prepare and issue you with a design and cost estimate for your diversion and this price is valid for a period of six months. The estimate is based on our interpretation of your proposed works. If you have any queries, please discuss these with our design engineer.

2

Acceptance and payment

Once you have received the estimate and are happy to proceed, you can accept the work by signing and returning the acceptance form included with your estimate. Please ensure you have read and understood the details in your offer letter, any design drawings and the information in this booklet. If you have any queries, please discuss them with our design engineer. Payment terms will be detailed in your estimate letter and all works require upfront payment in order to proceed.

3

Local authority permits and third party consents

Once you have accepted and paid for the diversion, we will notify the local authority highways team and commence the process to raise a permit to work in the highway.

We will also begin negotiations with any third party land owners who may be affected by the diversion works and seek to secure consents to commence works on site. This process can sometimes be quite lengthy and often involves agreements with third party legal representatives. Your diversion works coordinator will keep you up to date with progress and advise on any issues that may impact the works start dates.

4

Schedule work

We will try to schedule the works to meet your desired programme, but allowing for third party consents, highway permits and outage notifications may mean that it is not always possible. After you accept the estimate, we will need to put together construction drawings and health and safety packs for issue to our delivery team and your coordinator will make contact with you to discuss and agree the programme dates, arrange any pre-site inspections and confirm any other specific issues or restrictions.

5

Works on site

Once dates are agreed, an excavation team will attend site to commence installation of the new cables and apparatus that will allow us to transfer the existing circuits onto the diversion route. Our team will protect all open excavations for the duration of the works and until the final connections are made by our engineering and jointing teams. We will then follow up with backfill and reinstatement of trenches and joint bays.

6

Completion

It is important for you to know that all the old cables are left in the ground and are not removed from site. The cables are proved dead at the point of diversion, but any requests for us to return to site to prove dead other apparatus may be chargeable to you.

Due to the possible presence of third party or unrecorded cables, we are not able to provide a certificate of diversion or provide conclusive proof that all cables on site are dead. Our records will be updated to show the new installed cables and the old cables marked up as **Out of Commission (OOC)**.

You should continue to excavate with caution and follow the Health and Safety Executive guidelines (document HS (G) 47) which can be found at www.hse.gov.uk.

Project closure

Usually within three months of your diversion works being completed we will send a final account statement showing any additional costs or refund due.

This statement will include:

- A brief breakdown of final costs.
- Confirmation of any previous payments received from you.
- Details of any refunds due to you or additional funds required by us.
- Summary of any New Roads and Streetworks Act allowances which have been applied to your account.

In the event of
damage or contact with
electricity cables please
call us direct to report it
on **0800 195 4141**
or **105**

Safe working practises

We understand that diversion works often precede building works and site clearances and further works will continue after the diversion is complete.

We recommend that you and your contractors refer to industry guidance to ensure you are working safely.

The Energy Networks Association (ENA) and Health and Safety Executive have produced some helpful guides for working near overhead and underground cables which you can find at www.energynetworks.org or www.hse.gov.uk.

Details of work completed on site

We don't normally issue copies of the as-laid drawings completed by our delivery team. You should refer to our cable records for details of where the new and old cables are located.

There are many different companies who are able to install, operate and work near the electricity network in our area. Because of this, we cannot be sure if other connections or changes have been made to the network during or after our diversion work is complete.

There is also the possibility that other unauthorised third party interference has changed the electricity network without our knowledge. As a result of this, we can only recommend our published cable records to be the most accurate and up to date information on the electricity network in the vicinity of your works.

Please make sure you provide your site teams with regularly updated records and always employ safe digging practices when excavating.

For more information visit www.enwl.co.uk/knowbeforeyoudig.



SAFETY FIRST

Never attempt to move cables or allow anyone to move cables on your behalf. Treat all cables and services as LIVE unless they have been identified and confirmed to be DEAD.

Shared trench installations

We are industry leaders in providing shared trench installations for utility apparatus.

As part of our diversion service, we are able to provide you with a bespoke design for multi-utility trenching. Our team can produce a design that will incorporate the installation of other utilities such as water, gas pipes and communication lines.

We have worked for a number of years with local authorities, transport and utility companies to improve the programme timescales of utility diversion associated with projects in the public highway.

Using one contractor on site for excavation can demonstrate to local businesses, residents and other stakeholders that you have considered the impact that a major project can have on their businesses and the inconvenience that these works can cause to the general public and local traffic.

We can liaise with other utility companies on your behalf to design and gain approval for joint utility trenching and to install or manage their equipment installations in purpose built trenches.



“ Using one contractor on site can reduce the impact that a major project can have on the public and local area. ”

Our process

1

Design

Our team can produce a design for shared trench installations.



2

Utility coordination

We can liaise with other utility companies to secure design approval for other services such as gas, water and telecoms to share our trench.



3

Installation

Our expert installers are fully authorised to install other utility assets.

If you would like to know more about how we can help you shorten your programme durations, reduce disruption and improve your reputation with local stakeholders, please let our design team know and we will tailor a design to suit your requirements.

Electricity North West contacts

The best way to contact us about your diversion is to use our email address Diversions@enwl.co.uk

Send us an email and one of the team will be in touch with you as quickly as possible.

Get connected

- Electricity connections
- Diversions
- Disconnections
- Service alterations
- Add loads

0800 988 1730

General enquiries and updates regarding your electricity connection requirements and general enquiries about the electricity distribution services we provide such as diversions, disconnections, service alterations and additional loads.

You can contact our team:

Monday to Thursday 8am-5pm

Fridays 8am-4.30pm

Electricity fault information and emergencies

- Loss of electricity supply

**0800 195 4141
or 105**

For customers who need to report a power cut, an emergency or dangerous situation.

Our contact centre is open 24 hours a day, seven days a week.

Signage around street works

- Electricity streetworks

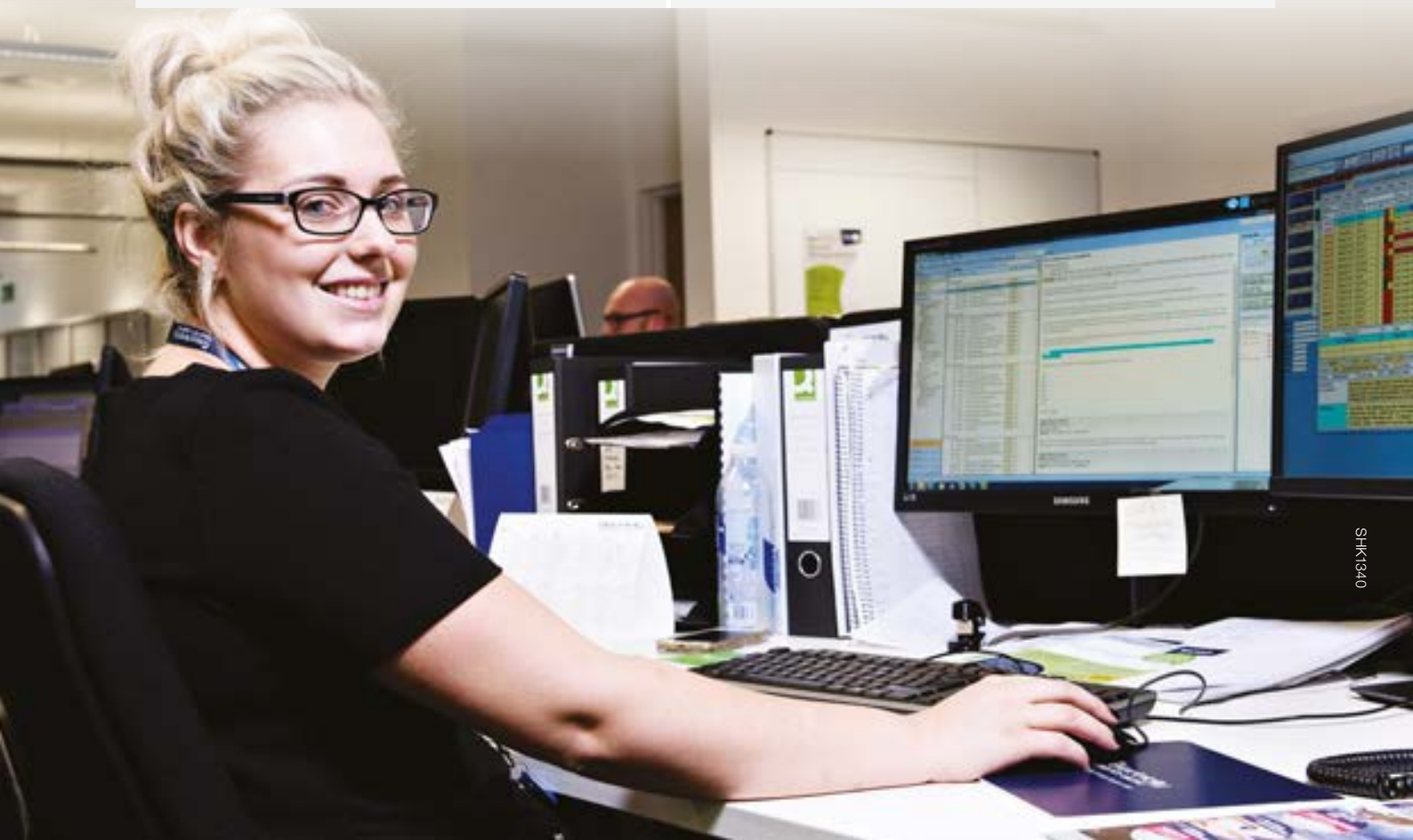
0800 195 4141

To report a problem with signage or barriers around work being carried out on site.

Our website and useful links

www.enwl.co.uk

- www.enwl.co.uk/diversions
- www.enwl.co.uk/disconnect-your-supply



Our Reference:

NWGD225215

Your Reference:

N/A

Neil Bruce

Design Officer

Email

neil.bruce@cadentgas.com

Direct tel.

+44(0)161 790 3000 EXT 5421

Mobile:

+44(0)7967 165 325

Date:

Wednesday 21 July, 2021

DAVID VICKERS

TDS

Northern House (SK9 5EQ)

3A Kennerleys Lane

Wilmslow

Cheshire

SK9 5EQ

cadentgas.com

Cadent
Your Gas Network

Dear David,

Re: Gas Mains Diversion(s) at LAND REAR OF, MEECH STREET, M11 2JJ

Please find enclosed one copy of our plans showing the existing mains in this area.

Inspection of your proposals and Cadent Gas' records would indicate that we have the following apparatus affected by the proposed works:

271M X 4"PE

Prior to the commencement of your scheme it will be necessary for you to undertake hand excavated trial holes to prove the exact depth and position of the above main(s). I would be pleased to receive details of your site investigations and proposed construction depths in due course for further assessment.

A budget cost for cutting off the affected main(s) is £26000 (Twenty-Six Thousand Pounds)**This estimate figure will also be subject to VAT charged at 20% .**

Please see the following page for a list of specific inclusions, exclusions and information.

This budget estimate should be regarded as a rough guide only. It has been prepared using the information currently available. A detailed estimate, showing any allowances which may be applicable, can be prepared when the proposals are firmed up.

Please note that an official order, accompanied by payment in full for the rechargeable proportion of the costs, will be required before any programming of work can commence. An order cannot be accepted against this budget estimate.

Cadent Gas reserves the right to divert any affected apparatus if proved necessary during the course of your works, the cost of which will be recharged.

Copies of our "General Conditions and Precautions" leaflet and card, which outline the precautions to be taken whilst excavating in the vicinity of live gas distribution apparatus, are enclosed for your information.

I trust this is satisfactory, should you require any further details please do not hesitate to contact me.

Yours faithfully,

**Neil Bruce**

Design Officer

Mains Diversions Team

(On behalf of Cadent Gas)

Cadent Gas Limited

Registered Office Ashbrook Court, Prologis Park

Central Boulevard, Coventry CV7 8PE

Registered in England and Wales No.10080864

National Gas Emergency Service

0800 111 999 (24hrs)

All Calls Recorded

Further Design Officer Comments:



Please be aware of the following:

1. Standard depth of cover for a Low Pressure gas main is 650mm - 700mm (FW) and 750mm (CW).
The finished ground level above the mains must not be raised to greater than 1.2m or reduced to less than 750mm.
2. Metallic mains have been known to fail as a result of major construction activities, even at standard depth, and may incur a necessary diversion.
3. No new kerb line, barrier or other street furniture should be set out to run directly over or within 300mm of an existing gas main.
Any existing street furniture shall be removed, stored and reinstated by the customer **prior** to work commencing.
4. Gas mains must not become contained within the new carriageway formation. A fine fill layer of not less than 150mm must be maintained between the mains and the carriageway formation.
5. Gas mains must remain in Public Adopted Highway. Gas mains installed in private land must be subject to a free Deed of Grant of Easement in perpetuity.
6. If applicable, as a condition of doing the work, the client will be required to enter into a deed of easement with Cadent **prior** to work commencing and will be responsible for paying both their own and Cadent legal fees. This will require a direct undertaking from the grantors solicitors to Cadent panel solicitors.
7. All redundant apparatus will be capped, purged to air and left in situ. No pipework will be removed from site unless specifically requested.
8. If applicable, all existing meters shall be removed **prior** to work commencing.
9. A minimum of 10m should be accounted for when (re)planting Poplar and Willow Trees. A 6m allowance should be made for conifers and deciduous trees, and 1.5 - 6m for lesser trees and shrubs in accordance with standard tree planting guidelines.

The following have/have not not been included in this estimate:

Permanent Reinstatement in the public highway has been included.

Deep Excavation has not been included.

Specialist excavation & reinstatement has not been included

Traffic Management costs and logistics have not been included.

T.T.R.O.s, Footpath Closures, Crossing & Bus Stop suspensions have not been included.

Peak hours uplift has not been included.

Fees for legal consents & permissions have not been included.

Professional fees (third party work) has not been included

Removal, storage & re-installation of Street Furniture has not been included

Testing, removal & disposal of contaminated materials & liquids has not been included

Removal & disposal of indigenous & non-indigenous vegetation (trees & plants) has not been included

If you discover a main that is not shown on Cadents' records, call Plant Protection on 0800 688 588

For Services/Connections, call 0800 074 5788

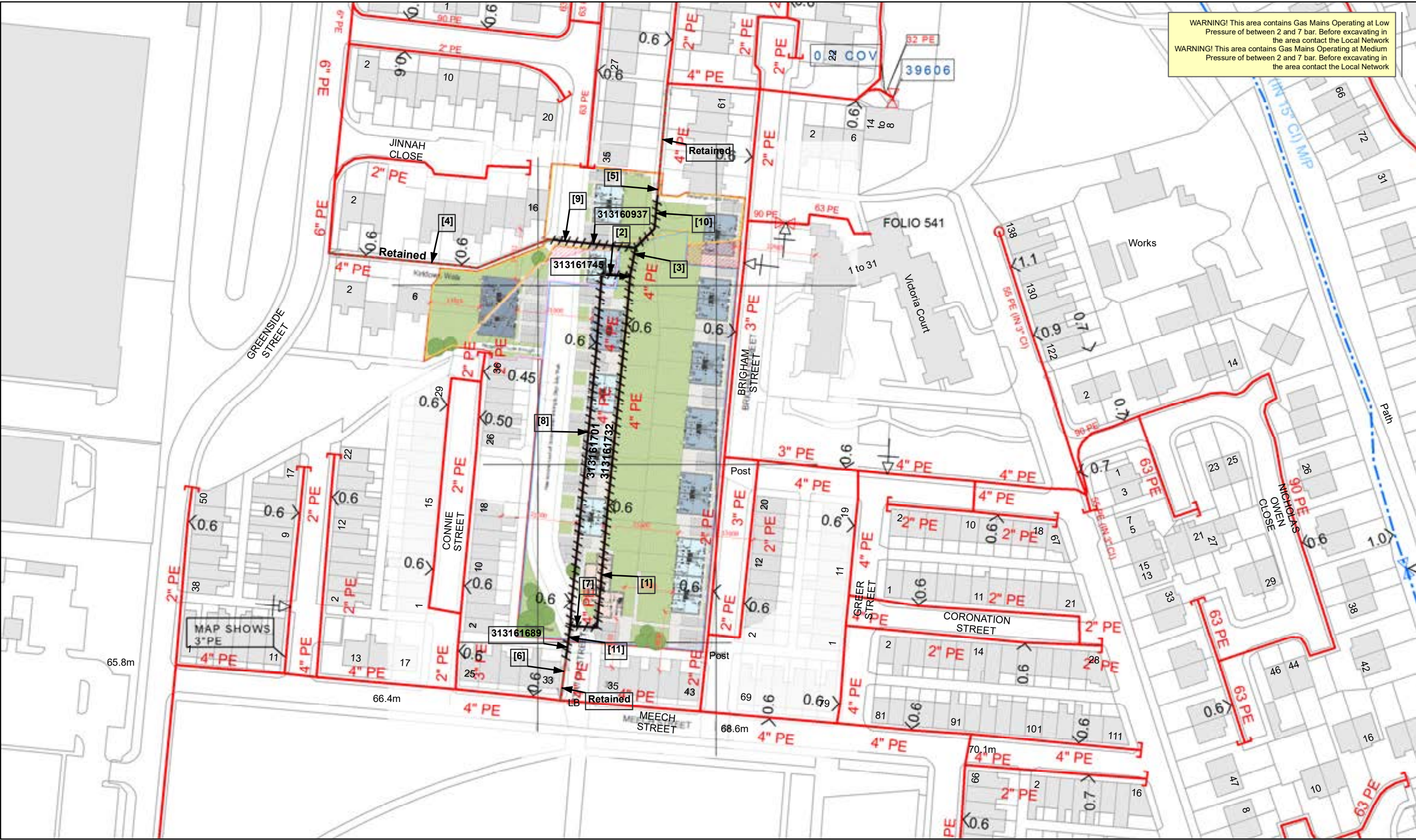


To report a gas emergency, call 0800 111 999

Cadent Gas Limited

Registered Office Ashbrook Court, Prologis Park
Central Boulevard, Coventry CV7 8PE
Registered in England and Wales No.10080864

National Gas Emergency Service
0800 111 999 (24hrs)
All Calls Recorded



SCALE: 1:1,250 @ A3
USER ID: Neil.Bruce
DATE: 21-Jul-2021 16:08:51
INTERNAL USE ONLY
MAP REF: 388247, 397812
CENTRE:

L/P GAS MAIN
M/P GAS MAIN
I/P GAS MAIN
H/P GAS MAIN
N/H/P GAS MAIN
PROPOSED PIPE - LP
PROPOSED PIPE - MP
PROPOSED PIPE - IP
ABANDON - LP
ABANDON - MP
Out Of Standard Service

Some examples of Plant Items:
Valve
Syphon
Depth of Cover
Change of Dia
Change of Material

SCHEME: LAND REAR OF MEECH STREET, M11 2JJ
DESIGN: NWGD225215
REVISION: 0

This plan shows those pipes owned by Cadent 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 Cadent Gas Limited 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 any 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.

NWGD225215 - C3
LAND R/O MEECH ST.
M11 2JJ

This plan is reproduced from or based on the OS map by Cadent Gas Limited, with the sanction of the controller of HM Stationary Office.
Crown Copyright Reserved.

DAVID VICKERS
TDS
Northern House (SK9 5EQ)
3A Kennerleys Lane
Wilmslow
Cheshire
SK9 5EQ

Plant Protection
Cadent
Block 1; Floor 1
Brick Kiln Street
Hinckley
LE10 0NA
E-mail: 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

Date: 24/06/2021
Our Ref: NW_GE1B_3FWP_060791
Your Ref: Bringham Street, Manchester
RE: Formal Enquiry, Bringham Street, Manchester

Thank you for your enquiry which was received on 23/06/2021.
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 Limited, National Grid Electricity Transmission plc's and National Grid Gas Transmission 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.

Are My Works Affected?

Searches based on your enquiry have identified that there is apparatus in the vicinity of your enquiry which may be affected by the activities specified.

Diversion or protection of Cadent and/or National Grid's apparatus may therefore be necessary.

Due to the presence of Cadent and/or National Grid apparatus in proximity to the specified area, the contractor should contact Plant Protection before any works are carried out to ensure the apparatus is not affected by any of the proposed works.

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 Limited, National Grid Electricity Transmission plc (NGET) and National Grid Gas Transmission plc (NGGT) 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 either the [National Grid](#) or [Cadent](#) website.

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 Limited, NGGT 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:

- I 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)

As your proposal is in proximity to apparatus, we have referred your enquiry / consultation to the following department(s) for further assessment:

- I Cadent Diversions Team

We request that you take no further action with regards to your proposal until you hear from the above. We will contact you within 28 working days from the date of this response. Please contact us if you have not had a response within this timeframe.

Requirements

BEFORE carrying out any work you must:

- I Carefully read these requirements including the attached guidance documents and maps showing the location of apparatus.
- I 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.
- I 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>
- I 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

Excavating Safely - Avoiding injury when working near gas pipes:

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](#) and [Cadent](#) websites.



ID: NW_GE1B_3FWP_060791 USER: Louise.Rammell DATE: 24/06/2021 DATA DATE: 23/06/2021 REF: Bringham Street, Manchester MAP REF: SJ8897 CENTRE: 388225, 397815	View extent: 361m, 196m LP MAINS ———— MP MAINS ———— IP MAINS ———— LHP MAINS ———— NHP MAINS ———— 0m ———— 25m Approximate scale 1:1250 on A4 Colour Landscape	Diversion may be necessary. Further consultation required This plan shows those pipes owned by Cadent Gas Limited 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 Cadent Gas Limited 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.	Map 1 of 1 (GAS) MAPS Plot Server Version 1.11.0 Cadent Your Gas Network Requested by: TDS This plan is reproduced from or based on the OS map by Cadent Gas Limited, with the sanction of the controller of HM Stationery Office. Crown Copyright Reserved. Ordnance Survey Licence number 100024886
Some examples of Plant Items: Valve Depth of Cover Syphon Diameter Change Intake Change Out of Standard Service			

ENQUIRY SUMMARY

Received Date

23/06/2021

Your Reference

Brigham Street, Manchester

Location

Centre Point: 388225, 397815

X Extent: 66

Y Extent: 136

Postcode: M11 2JJ

Location Description: Brigham Street, Manchester

Map Options

Paper Size: A4

Orientation: LANDSCAPE

Requested Scale: 1250

Actual Scale: 1:1250 (GAS)

Real World Extents: 361m x 196m (GAS)

Recipients

diversions@cadentgas.com

Enquirer Details

Organisation Name: TDS

Contact Name: DAVID VICKERS

Email Address: david.vickers@t-d-s.com

Telephone: 01625462357 (07513 120532)

Address: Northern House (SK9 5EQ), 3A Kennerleys Lane, Wilmslow, Cheshire, SK9 5EQ

Description of Works

c3 request

Enquiry Type

Formal Enquiry

Activity Type

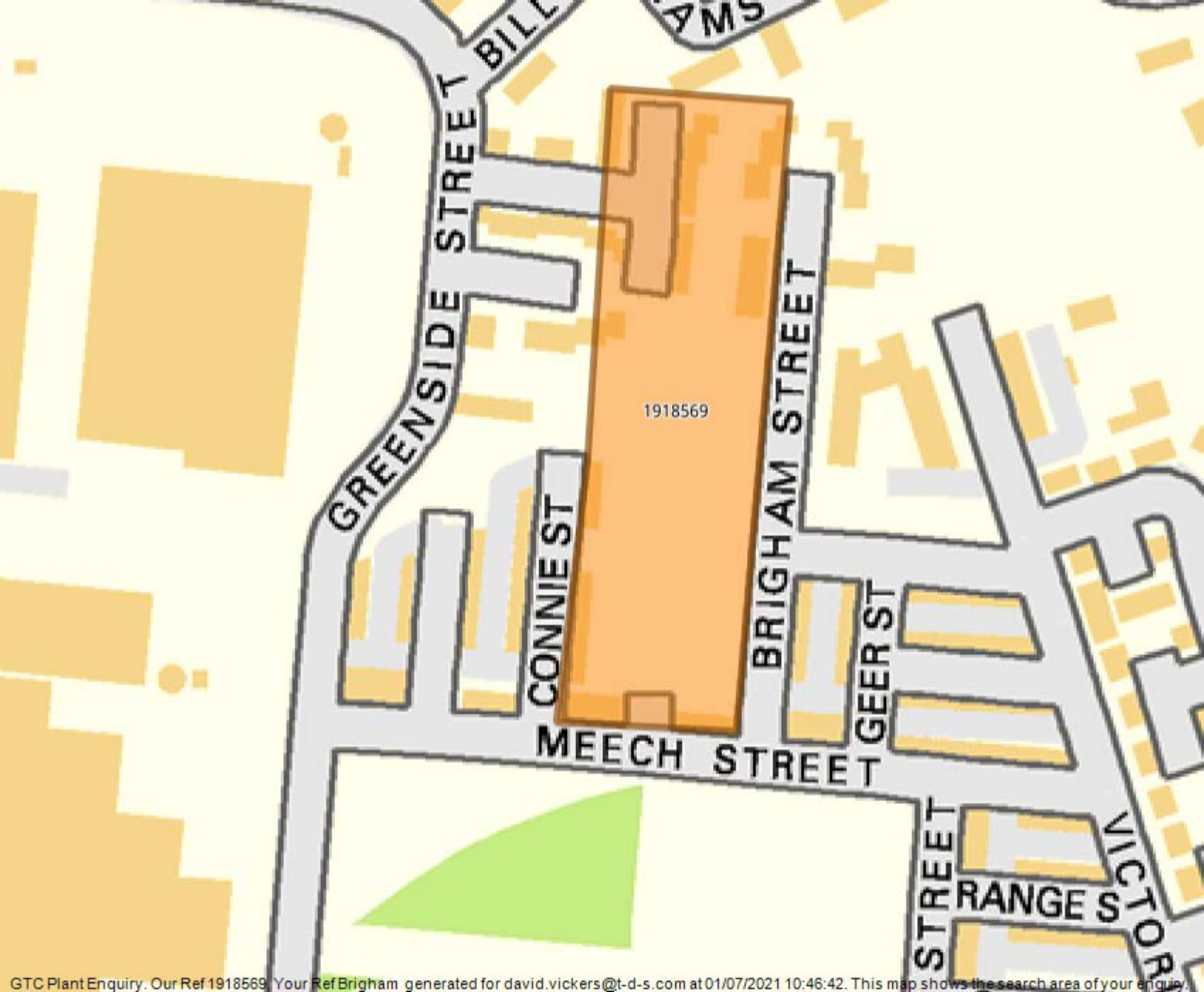
General Excavation

Work Types

Work Type: Deep Excavation (greater than or equal to 0.3m)

Notice Types

Notice Type: NRSWA Diversion Request (C3 Draft Scheme and Budget)



1918569

Specification for safe working in the vicinity of Cadent assets - requirements for third parties



Cadent contact details



Disclaimer

This document is provided for use by third parties for safe working in the vicinity of Cadent assets. Where this document is used by any other party it is the responsibility of that party to ensure that this document is correctly applied.

Mandatory and non-mandatory requirements

In this document:

shall: indicates a mandatory requirement.

should: indicates best practice and is the preferred option.

If an alternative method is used then a suitable and sufficient risk assessment shall be completed to show that the alternative method delivers the same, or better, level of protection.

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Smell gas? Call the free, 24 hour National Gas Emergency Service:

0800 111 999*

*All calls are recorded and may be monitored

Introduction



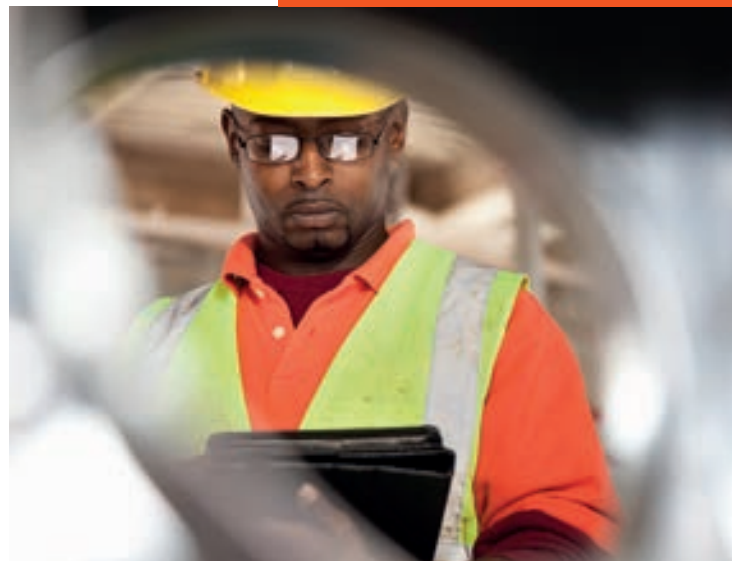
Specification for safe working in the vicinity of Cadent assets – requirements for third parties.

This specification is for issue to third parties carrying out work in the vicinity of Cadent gas assets and associated installations. It is provided to ensure that individuals planning and undertaking work take appropriate measures to prevent damage.

Any damage to a gas asset, or its coating can affect its integrity and can result in failure of the asset with potentially serious hazardous consequences for individuals located in the vicinity.

It is therefore essential that the safety advice outlined in this document is complied with when working near to a Cadent asset. If Cadent consider any work to be in breach of the requirements stipulated in this document, then the Cadent responsible person will request that work is suspended until the non-compliances have been rectified.

Keeping you, your workers and the public safe when working near our pipelines.



The Pipelines Safety Regulations 1996 state that 'No person shall cause such damage to a pipeline as may give rise to a danger to persons' (Regulation 15). Failing to comply with these requirements could therefore result in prosecution by the Health and Safety Executive (HSE). The requirements in this document are in line with the requirements of the Institution of Gas Engineers and Managers (IGEM) recommendations *IGEM/SR/18 Edition 3 Safe Working Practices to Ensure the Integrity of Gas Assets and Associated Installations* and the HSE's guidance document *HS(G)47 Avoiding Danger from Underground Services*. It is the responsibility of the third party to ensure that any work carried out also conforms with the requirements of the Construction and Design Management (CDM) Regulations 2015 and all other relevant health and safety legislation.

Always contact Cadent prior to carrying out any work in the vicinity of Cadent assets

Contact Cadent

Contact Cadent on 0800 688588 to obtain formal consent at least 14 days before starting work. See [Section 2](#) for more details.

Consider safety

Consider the safety requirements – [Section 3](#) of this document.

Inform Cadent and request asset location

For asset location please contact Cadent at least 14 days before work starts to request formal asset location. See [Section 4](#) of this document.

Observe restrictions

Observe Cadent restrictions on the allowed proximity of mechanical excavators and other power tools and the measures to protect the asset from construction vehicles when carrying out the work – [Sections 5, 6.1, 6.2, 7.1 and 7.2](#) of this document. **Note: Cadent may wish to monitor the work, consult Cadent to confirm whether or not this is the case.**

Specific activities

- | | | |
|---------------------|------------------------------|-------------------------------------|
| ■ No-dig techniques | ■ Hot work | ■ Landfilling |
| ■ Change in cover | ■ Blasting | ■ Pressure testing |
| ■ Piling | ■ Demolition | ■ Deep mining |
| ■ Seismic surveys | ■ Surface mineral extraction | ■ Wind and solar farms |
| | | ■ Crossing with plant and equipment |
- See [Sections 6.3 & 7.3](#)

Consult Cadent

Consult Cadent prior to any backfilling over, alongside or under the asset and obtain Cadent's agreement to proceed. Normally Cadent requires 48 hours' notice prior to backfilling. See [Sections 6.4 & 7.4](#) of this document.

Important: This flowchart should be used in conjunction with the entire SSW22 document and not in isolation. If, at any time during the works, the asset is damaged even slightly then observe the precautions in Section 9 of this document.

If in doubt, contact Cadent.

1 Scope

This specification sets out the safety precautions and other conditions associated with working in the vicinity of all Cadent assets, located in both negotiated easements ([see Section 11](#)) and public highways.

2 Formal consent

Cadent assets are located either, within an easement agreed with the landowner (at the time of installation) or within the highway. As the required arrangements for working within an easement and working within the highway differ, this document highlights the specific requirements for these two types of area.

No work shall be undertaken in the vicinity of the asset without the formal written consent of Cadent.

Any documents handed to contractors, or other individuals undertaking work (e.g. farmer, local authority etc.), on site by Cadent, shall be signed for by the site manager (to be shared with all individuals on site).





2 Formal consent

2.1 Within an easement

The promoter of any works (see Section 11) within an easement (or within 3m of asset location) shall provide Cadent with details of the proposed works including a risk assessment and method statement of how the work is intended to be carried out. Work shall not go ahead until formal written consent has been given by Cadent. This will include details of Cadent's protection requirements, contact telephone numbers and the emergency telephone number. On acceptance of Cadent's requirements, the promoter of the works shall give Cadent at least 14 days' notice before commencing work on site.

In addition to formal written consent, an easement crossing agreement (deed of indemnity) may be required. This shall be discussed with the Cadent responsible person prior to the commencement of the works.

2.2 Within a highway

Work shall be notified to Cadent in accordance with the requirements of The New Roads and Street Works Act (NRSWA) and HS(G)47. The promoter of any works within the highway should provide Cadent with details of the proposed works, including a risk assessment and method statement of how the work is intended to be carried out. This shall be submitted at least 14 days before the planned work is to be carried out. If similar works are being carried out at a number of locations in close proximity, a single risk assessment and method statement should be adequate depending on the nature of the works. Work should not go ahead until formal written consent has been given by Cadent. This will include details of Cadent's protection requirements, contact telephone numbers and the emergency telephone number.

3 Health, safety and environmental considerations

3.1 Safe control of operations

All working practices shall be agreed by Cadent prior to work commencing. All personnel working on site shall be made aware of the potential hazard of the asset and the actions they should follow in case of an emergency.

3.2 Deep excavations

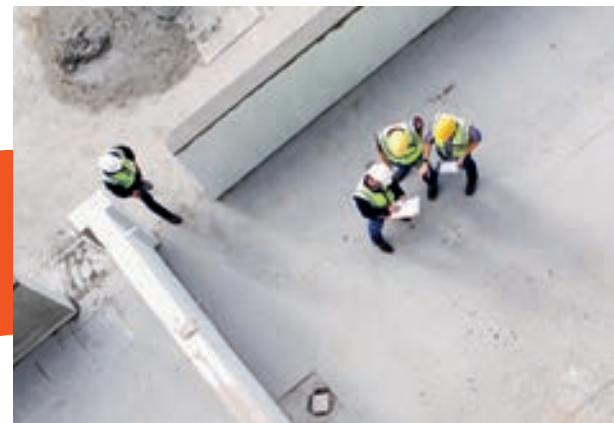
Special consideration should be given to the hazards associated with deep excavations when working within or at a close proximity to the asset.

3.3 Positioning of plant

Unless written authority has been given by Cadent, mechanical excavators and any other powered mechanical plant shall not be sited or moved over an asset location. Mechanical excavators and any other powered mechanical plant shall not dig on one side of the asset when the cab of the excavator positioned on the other side. Mechanical excavators, any other powered mechanical plant, and other traffic shall be positioned far enough away from the asset trench to prevent trench wall collapse.

3.4 Risk assessment

Works in the vicinity of gas assets may have an impact on the safety of the general public, site workers, Cadent staff and contractors, and may affect the local environment. Anyone (e.g. contractors, site workers, farmers, local authorities etc.) working close to the asset, shall carry out suitable and adequate risk assessments. The risk assessment must have acceptance from the Cadent responsible person prior to the commencement of work, to ensure that all such issues are properly considered and risks mitigated.



4 Location of gas assets

Cadent asset records shall be consulted to establish the indicative location of the gas assets in relation to the promoters work area.

Prior to site work commencing the gas assets should be located to verify the indicative location.

This should be carried out through non-intrusive methods utilising pipe locators. Once located the gas assets should be marked out at regular intervals using asset location markers with triangular flags (see [Appendix A](#)) or other suitable methods.

The requirements for trial holes to locate the asset or determine levels at crossing points shall be determined on site by the Cadent responsible person.

For assets exceeding 2 bar, the excavation of all trial holes shall be monitored by Cadent. For assets not exceeding 2 bar, this monitoring will be at the discretion of the Cadent responsible person. Any changes shall be agreed by Cadent.

Safe digging practices, in accordance with HSE publication HS(G)47 should be followed. Direct and consequential damage to gas plant can be dangerous both to employees and to the general public

5 Temporary and permanent protective measures

No temporary or permanent protective measures, including the installation of concrete slab protection, shall be installed over or near to the Cadent asset without the prior permission of Cadent. Cadent will need to approve the material, dimensions and method of installation of the proposed protective measure.

The method of installation shall be confirmed through the submission of a formal written method statement from the contractor to Cadent. Where permanent slab protection is to be applied over the asset, Cadent will normally carry out a coating survey of metallic assets to check that there is no existing damage to the coating prior to the slab protection being put in place.

Cadent shall therefore be given at least 14 days notice prior to the laying of any slab protection to arrange for this survey to be carried out.

Generally, due to the need for future access to below 2 bar gas assets, permanent slabs are not permitted but, can be approved at Cadent's discretion.

The safety precautions detailed in [section 3](#) and either [section 6](#) or [7](#) of this document should also be observed during the installation of the asset protection.



6 Working in the vicinity of a gas asset exceeding 2 bar

6.1 Excavation

6.1.1 In proximity to an asset in an easement

Following location and marking of the asset in agreement with the Cadent responsible person, powered mechanical excavation may be used no closer than 3 meters (see Figure 1). The use of toothed excavator buckets vastly increases the potential for damage to assets, therefore only toothless buckets shall be used.

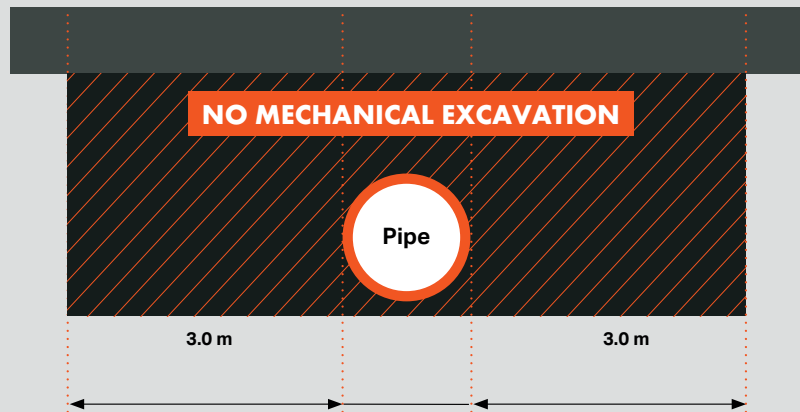
Any fitting, attachment or connecting pipework on the asset shall be exposed by hand. If third parties are using any form of trench support system they shall ensure that none of the components are in contact with the Cadent asset.

Consideration may be given to a relaxation of these limits or lower risk excavation methods by agreement with the Cadent responsible person on site.

Where sufficient depth of cover exists and the absence of attachments and projections has been confirmed (e.g. valve spindles, pressure points etc.) and following evidence from hand dug trial holes, light tracked vehicles may be permitted to strip topsoil to a depth of 0.25 metres, using a toothless bucket.

No topsoil or other materials shall be stored within the easement without the written permission of Cadent. No fires are allowed in the easement strip or close to above ground gas installations.

Figure 1. Excavation restrictions



After the completion of the work, the level of cover over the asset should be the same as that prior to work commencing, unless otherwise agreed by Cadent.

No new service shall be laid parallel to the asset within the easement. In special circumstances, and only with formal written agreement from Cadent, this may be relaxed for short excursions where the service shall be laid no closer than 0.6 metres.

Where work is being carried out parallel to the asset, within or just alongside the easement, suitable barriers shall be erected for protection between the works and the asset to prevent encroachment.

6.1.2 In proximity to an asset in the highway

Following location and marking of the asset in agreement with the Cadent responsible person, powered mechanical excavation may be used no closer than 3 meters (see Figure 1).

The use of toothed excavator buckets vastly increases the potential for damage to assets, therefore only toothless buckets shall be used.

Any fitting, attachment or connecting pipework shall be exposed by hand.

If third parties are using any form of trench support system they shall ensure that none of the components are in contact with the Cadent asset.

Removal of the bituminous or concrete highway surface layer by mechanical means is permitted to a depth of 0.3 metres, unless any attachments or projections are present on the asset (e.g. valve spindles, pressure points etc.). The use of chain trenchers is not permitted within 3 metres of the asset. The Cadent responsible person may need to be present to monitor this work. Where the bituminous or concrete highway surface layer extends below 0.3 metres deep, it shall only be removed by handheld power assisted tools under the observation of Cadent.

In special circumstances, consideration may be given to a relaxation of these rules by agreement with the Cadent responsible person and only whilst they remain on site.



6 Working in the vicinity of a gas asset exceeding 2 bar

6.1.3 Crossing over an asset (Open cut)

Where a new service is to cross over the asset, a clearance distance of 0.6 metres between the crown of the asset and underside of the service should be maintained. If this cannot be achieved, the service shall cross below the asset, (see section 6.1.4).

In special circumstances, this distance may be reduced at the discretion of the Cadent responsible person on site.

6.1.4 Crossing below an asset (Open cut)

Where a service is to cross below the asset, a clearance distance of 0.6 metres between the crown of the service and underside of the asset shall be maintained. Where lengths of pipe greater than one metre are to be exposed, the Cadent responsible person shall be consulted. The exposed asset/s should be suitably supported and protected by matting and timber cladding. Any supports shall be removed prior to backfilling.

In special circumstances, this clearance distance may be reduced at the discretion of the Cadent responsible person on site.



6 Working in the vicinity of a gas asset exceeding 2 bar

6.1.5 Cathodic protection

Cathodic protection (CP) is applied to Cadent's buried steel pipe and is a method of protecting assets from corrosion by maintaining an electrical potential between the pipe and anodes placed at strategic points along the asset.

Where a new service is to be laid and similarly protected, the party installing the CP system will undertake tests to determine whether the new service is interfering with the cathodic protection of the Cadent asset.

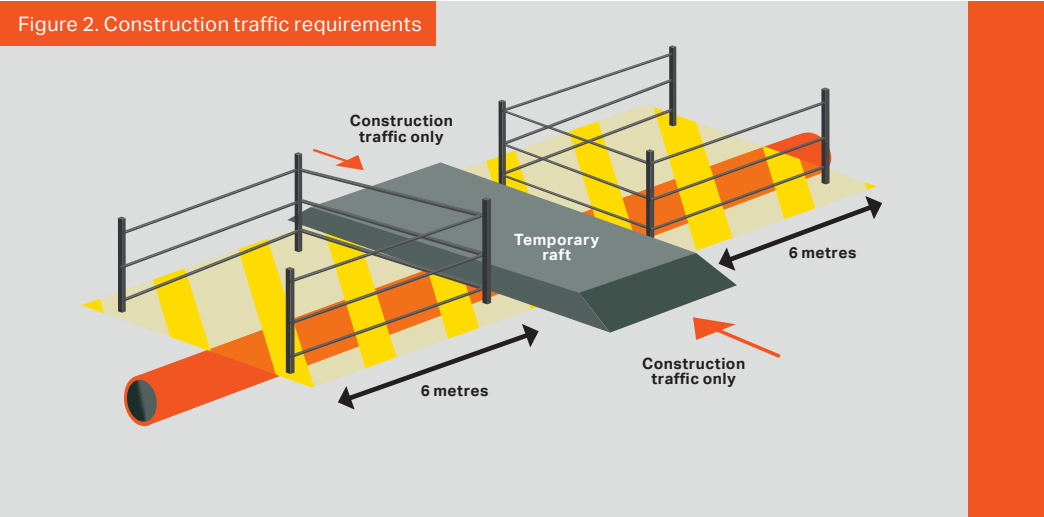
Should any cathodic protection posts or associated apparatus need to be moved to facilitate third party works, at least 14 days notice shall be given to Cadent. Cadent will undertake this work and any associated costs will be borne by the third party.

6.1.6 Installation of electrical equipment

Where electrical equipment is being installed close to Cadent's buried steel assets, the effects of a rise of earth potential under fault conditions shall be considered by the third party and a risk assessment and method statement shall be submitted to Cadent for approval, prior to the works.

The installation of electrical cables parallel to Cadent assets may induce currents into the asset. This may interfere with the effective operation of the cathodic protection system. In these instances, Cadent will require the promoter of the works to conduct pre and post energisation potential surveys of Cadent's asset. The costs for any stray current mitigation systems required will be borne by the third party promoter.

Figure 2. Construction traffic requirements



6.2 Construction traffic

Where existing roads cannot be used, construction traffic should ONLY cross the asset at agreed locations. Notices shall be placed directing traffic to the crossing points. Post and wire fencing shall be erected at all crossing points. The fence should cover the width of the easement and extend a further 6 metres along the length of the easement on both sides. (See figure 2)

The asset shall be protected, at the crossing points by a suitable method agreed with the Cadent responsible person prior to installation. The third party shall review ground conditions, vehicle types and crossing frequencies to determine the type and construction of the raft required.

For larger scale projects, or permanent solutions, a protection slab may be required.

6.3 Specific activities

This section details the precautions that need to be taken when carrying out certain prescribed activities in the vicinity of the asset. The promoter of works is required to consult Cadent when intending to undertake one of the listed activities and/or further advice is required on whether the work has the potential to affect the asset. The table to the right shows, for some specific activities, the prescribed distances where the advice of Cadent shall be sought (see sections 6.3.1 to 6.3.13 for further details)

Activity	Distance within which Cadent advice shall be sought
Piling	15 m
Surface mineral extraction	100m
Landfilling	100 m
Demolition	150 m or 400m for structure mass >10000 tonnes
Blasting	500 m if the MIC is greater than 200 kg 250 m if the MIC is greater than 10 kg but less than 200 kg 100 m if the MIC is 10 kg or less.
Deep mining	1000 m
Wind turbine	Not permitted within 1.5 times the turbine mast height from the nearest edge of a pipeline (please see www.ukopa.co.uk)

6 Working in the vicinity of a gas asset exceeding 2 bar

6.3.1 Trenchless techniques

Where trenchless techniques are being considered, a formal risk assessment and method statement shall be produced. This risk assessment and method statement shall be formally agreed with Cadent prior to the commencement of the work. Please provide Cadent with at least 14 days notice as the Cadent responsible person may wish to be present to monitor this work.

6.3.2 Changes to depth of cover

The depth of cover over Cadent's asset shall not be altered. Cadent shall be consulted for any activity proposed that will lead to a change in cover over the asset. Expert advice may need to be sought, which will be determined by the Cadent responsible person.

6.3.3 Piling

No piling shall be allowed within 15 metres of an asset without an assessment of the vibration levels at the asset. The peak particle velocity at the asset shall be limited to a maximum level of 75 mm/sec. The promoter of the works should provide Cadent the anticipated vibration levels prior to the work commencing. The ground vibration should be monitored by the promoter to verify the anticipated levels and to ensure allowable peak particle velocity is not exceeded. Alarms should be set at suitable increments to provide a forewarning of limit exceedance. The promoter shall retain records of ground vibration levels for provision of the Cadent responsible person on request.

Where ground conditions include silt or sand, an assessment of the effect of vibration on settlement and liquefaction at the asset shall be made. Expert advice may need to be sought, which can be arranged through Cadent.



6.3.4 Demolition

No demolition should be allowed within 150 metres of an asset, or 400 metres for a structure mass greater than 10,000 tonnes, without an assessment of the vibration levels at the asset. The peak particle velocity at the asset shall be limited to a maximum level of 75 mm/sec.

The promoter of the works should provide Cadent the anticipated vibration levels prior to the work commencing. The ground vibration should be monitored by the promoter to verify the anticipated levels and to ensure allowable peak particle velocity is not exceeded. Alarms should be set at suitable increments to provide a forewarning of limit exceedance. The promoter shall retain records of ground vibration levels for provision of the Cadent responsible person on request.

Where ground conditions include silt or sand, an assessment of the effect of vibration on settlement and liquefaction at the asset shall be made. Expert advice may need to be sought, which can be arranged through Cadent.

6.3.5 Blasting

The Maximum Instantaneous Charge (MIC) dictates the distance at which an assessment of the vibration levels (at the located asset) is required. The measured distances are as follows:

- 500 m if the MIC is greater than 200 kg
- 250 m if the MIC is greater than 10 kg but less than 200 kg
- 100 m if the MIC is 10 kg or less.

The peak particle velocity at the asset shall be limited to a maximum level of 75 mm/sec.

The promoter of the works should provide Cadent the anticipated vibration levels prior to the work commencing. The ground vibration should be monitored by the promoter to verify the anticipated levels and to ensure allowable peak particle velocity is not exceeded. Alarms should be set at suitable increments to provide a forewarning of limit exceedance. The promoter shall retain records of ground vibration levels for provision of the Cadent responsible person on request.

Where ground conditions include silt or sand, an assessment of the effect of vibration on settlement and liquefaction at the asset shall be made. Expert advice may need to be sought, which can be arranged through Cadent.



6 Working in the vicinity of a gas asset exceeding 2 bar

6.3.6 Surface mineral extraction

An assessment shall be carried out on the effect of surface mineral extraction activity within 100 metres of an asset. Consideration should also be given to extraction around other plant and equipment associated with assets (e.g cathodic protection ground beds).

Where the mineral extraction extends up to the asset easement, a stable slope angle and stand-off distance between the asset and slope crest shall be determined by Cadent. The easement strip should be clearly marked by a suitable permanent boundary, such as a post and wire fence. Additionally, where appropriate, slope indicator markers shall be erected to facilitate the verification of the recommended slope angle as the slope is formed, by the third party. The asset easement and slope needs to be inspected periodically to identify any signs of developing instability. This may include any change of slope profile including:

- bulging,
- the development of tension cracks on the slope or easement,
- any changes in drainage around the slope.

The results of each inspection should be recorded.

Where surface mineral extraction activities are planned within 100 metres of the asset but do not extend up to the asset easement boundary, Cadent shall assess

whether this could promote instability in the vicinity of the asset. This may occur where the asset is routed across a natural slope or the excavation is deep. A significant cause of this problem is where the groundwater profile is affected by changes in drainage or the development of lagoons.

Where the extraction technique involves explosives, the provisions of **section 6.3.5** apply.

6.3.7 Deep Mining

Assets routed within 1 km of active deep mining may be affected by subsidence resulting from mineral extraction. The determination of protective or remedial measures will normally require expert assistance, which can be arranged through Cadent.



6 Working in the vicinity of a gas asset exceeding 2 bar

6.3.8 Landfilling

The creation of slopes outside of the asset easements may promote instability within the vicinity of the asset. Cadent should carry out an assessment to determine the effect of any landfilling activity within 100 metres of an asset. The assessment is particularly important if landfilling operations are taking place on a slope in which the asset is routed.

6.3.9 Pressure testing

Hydrostatic testing of a third party asset should not be permitted within 8 metres either side of a Cadent asset, to provide protection against the effects of a burst. Where this cannot be achieved, typically where the third party asset needs to cross a Cadent asset, one of the following precautions would need to be adopted:

- a) limiting of the design factor of the third party pipeline to 0.3 at the asset's nominated maximum operating pressure (MOP), and the use of pre-tested pipe, or
- b) the use of sleeving, or
- c) Cadent conduct risk analysis of pipe failure

In either case, the third party shall submit their site specific risk assessment and safe system of works for consideration by Cadent.

6.3.10 Seismic surveys

The promoter of works shall advise Cadent of any seismic surveying work in the vicinity of an asset that will result in peak particle velocities in excess of 50 mm/ sec at the asset.

The promoter of the works should provide Cadent the anticipated vibration levels prior to the work commencing. The ground vibration should be monitored by the promoter to verify the anticipated levels and to ensure allowable peak particle velocity is not exceeded. Alarms should be set at suitable increments to provide a forewarning of limit exceedance. The promoter shall retain records of ground vibration levels for provision of the Cadent responsible person on request.

6.3.11 Hot work

Where the Cadent's metallic gas asset has been exposed, welding (or other hot works that may involve naked flames) should not be carried out in proximity of the gas asset. This may be reduced if suitable protection and precautions has been agreed with Cadent.

If the gas asset is PE (or a PE asset is contained within a metallic sleeve) welding, or other hot works that may involve naked flames, should not take place within 0.5 m of the gas asset. This may be reduced if suitable protection and precautions have been agreed with the Cadent responsible person to prevent against the effects of sparks, radiant heat transfer etc.

The Cadent responsible person will be present to monitor all welding, burning or other 'hot work' that takes place.

6.3.12 Wind turbines

Wind turbines shall not be sited any closer than 1.5 times the proposed height of the turbine mast away from the nearest edge of the asset.

6.3.13 Solar farms

Solar farms can be built adjacent to assets but never within the easement. Advice shall be sought from Cadent at the early stages of design to ensure that electrical interference, security, future access and construction methods can be mutually agreed.

6.4 Backfilling

No backfilling should be undertaken without Cadent's agreement to proceed. The Cadent responsible person will stipulate the necessary consolidation requirements. Some equipment may not be suitable for use over or around the asset due to the adverse effects of excessive compaction and vibration levels. The Cadent responsible person will be able to advise on suitable equipment. Third parties undertaking work shall provide Cadent with 48 hours notice, or shorter only if agreed with Cadent, of the intent to backfill over, under or alongside the asset.

This requirement should also apply to any backfilling operations that:

- are within 3 metres of the asset, or
- could influence the ground stability.

Any damage to the asset or coating shall be reported to Cadent in order that damage can be assessed and repairs can be carried out.

Minor damage to pipe coating and test leads will be repaired by Cadent free of charge. If the asset has been backfilled without the knowledge of the Cadent responsible person, the third party will need to re-excavate to enable the condition of the asset coating to be assessed.

7 Working in the vicinity of a gas asset not exceeding 2 bar

7.1 Excavation

7.1.1 Working in vicinity of iron pipework

Where excavation work this is deeper than 1.5 metres is within 8 metres of grey iron mains an integrity assessment will be required by the Cadent responsible person.

Care should be taken to ensure that any cast iron asset is suitably protected and supported during the works. This is due to the susceptibility of the pipe material to fracture and joint leakage.

Precautionary measures should be agreed with the Cadent responsible person before exposing an iron fitting, for example, bend, tee or cap, etc. This is to ensure that fittings that are not self-anchored are adequately protected against failure during excavation.

7.1.2 In proximity to an asset in an easement

Excavation with a powered mechanical excavator should not be carried out until the asset has been located using vacuum or hand excavation. All mechanical excavation should be undertaken whilst utilising a banksman and shall not be permitted within 0.5 metres of the asset.

The use of toothed excavator buckets vastly increases the potential for damage to assets, therefore only toothless buckets shall be used.

Any fitting, attachment or connecting pipework shall be exposed by hand. If third parties are using any form of trench support system they shall ensure that none of the components are in contact with the Cadent asset.

Consideration may be given to a relaxation of these limits or lower risk excavation methods by agreement with the Cadent responsible person on site.

Where sufficient depth of cover exists and the absence of attachment and projections has been confirmed (e.g. valve spindles, pressure points etc.) and following evidence from hand dug trial holes, light tracked vehicles may be permitted to strip topsoil to a depth of 0.25 metres, using a toothless bucket.

No topsoil or other materials shall be stored within the easement without the written permission of Cadent. No fires are allowed in the easement strip or close to above ground gas installations.

After the completion of the work, the level of cover over the asset should be the same as that prior to work commencing, unless otherwise agreed with by Cadent.

No new service shall be laid parallel to the asset within the easement. In special circumstances, and only with formal written agreement from Cadent, this may be relaxed for short excursions where the service shall be laid no closer than 0.6 metres.

Where work is being carried out parallel to the asset, within or just alongside the easement, suitable barriers shall be erected for protection between the works and the asset to prevent encroachment.

7.1.3 In proximity to an asset in the highway

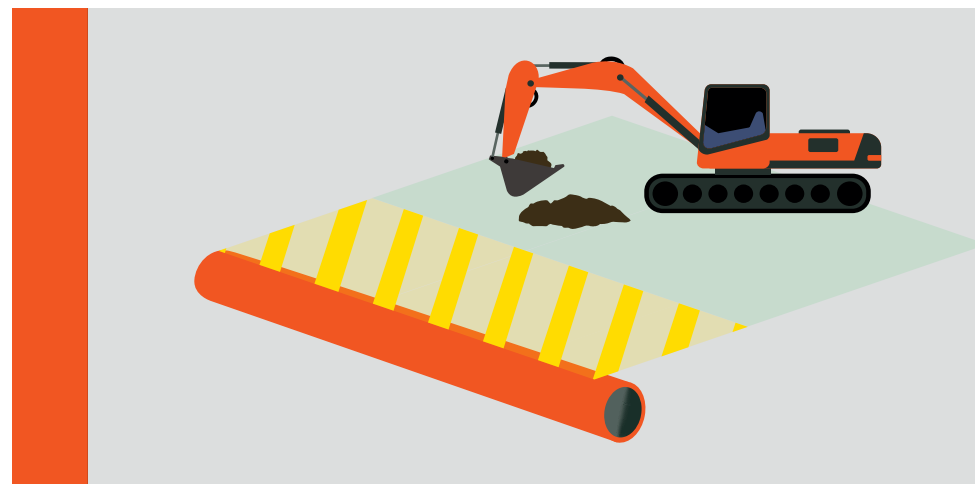
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The use of toothed excavator buckets vastly increases the potential for damage to assets, therefore only toothless buckets shall be used.

Any fitting, attachment or connecting pipework on the asset shall be exposed by hand. If third parties are using any form of trench support system they shall ensure that none of its components are in contact with the asset.

Removal of the bituminous or concrete highway surface layer by mechanical means is permitted to a depth of 0.3 metres, unless any attachments or projections are present on the asset (e.g. valve spindles, pressure points etc.). The use of chain trenchers to do this is not permitted within 3 metres of the asset. The Cadent responsible person may need to be present to monitor this work. Where the bituminous or concrete highway surface layer extends below 0.3 metres deep, it shall only be removed by handheld power assisted tools under the observation of Cadent.

In special circumstances, consideration may be given to a relaxation of these rules by agreement with the Cadent responsible person on site and only whilst they remain on site.



7 Working in the vicinity of a gas asset not exceeding 2 bar

7.1.4 Crossing over an asset (Open cut)

Where a new service is to cross over the asset, a minimum clearance distance of 1.5 times the diameter or 0.3 metres, whichever is greater should be maintained. If this cannot be achieved, the service shall cross below the asset, see **Section 7.1.4.**

In special circumstances, this distance may be reduced at the discretion of the Cadent responsible person on site.

7.1.5 Crossing below an asset (Open cut)

Where a service is to cross below the asset, a minimum clearance distance of 1.5 times the diameter or 0.3m, whichever is greater, between the crown of the new service and underside of the asset shall be maintained. The exposed asset/s should be suitably supported and protected by matting and timber cladding. Any supports shall be removed prior to backfilling.

7.1.6 Cathodic protection

Cathodic protection (CP) is applied to some buried steel pipes and is a method of protecting assets from corrosion by maintaining an electrical potential between the asset and anodes placed at strategic points along the asset. Where a new service is to be laid and similarly protected, the party installing the CP system will undertake tests to determine whether the new service is interfering with the cathodic protection of the Cadent asset.

Should any cathodic protection posts or associated apparatus need moving to facilitate third party works, appropriate notice, at least 14 days, shall be given to Cadent. Cadent will undertake this work and any associated costs will be borne by the third party.

7.1.7 Installation of electrical equipment

Where electrical equipment is being installed close to Cadent’s buried steel asset, the effects of a rise of earth potential under fault conditions shall be considered by the third party and a risk assessment and method statement shall be submitted to Cadent for approval, prior to the works.

The installation of electrical cables parallel to Cadent assets may induce currents into the asset. This may interfere with the effective operation of the cathodic protection system. In these instances, Cadent will require the promoter of the works to conduct pre and post energisation potential surveys of Cadent’s asset. The costs for any stray current mitigation systems required will be borne by the third party promoter.

7.2 Construction traffic

Where existing roads cannot be used, construction traffic should ONLY cross the asset at agreed locations. Notices shall be placed directing traffic to the crossing points. Post and wire fencing shall be erected at all crossing points. The fence should cover the width of the easement and extend a further 6 metres along the length of the easement on both sides. **(See figure 2)**

The asset shall be protected, at the crossing points, by a suitable method agreed with the Cadent responsible person prior to installation. The third party shall review ground conditions, vehicle types and crossing frequencies to determine the type and construction of the raft required.

For larger scale projects, or permanent solutions, a protection slab may be required.

7.3 Specific activities

This section details the precautions that need to be taken when carrying out certain prescribed activities in the vicinity of the asset. The promoter of works is required to consult Cadent when intending to undertake one of the listed activities and/or further advice is required on whether the work has the potential to affect the asset. The table to the right shows, for some specific activities, the prescribed distances where the advice of Cadent shall be sought **(see Sections 6.3.1 to 6.3.13 for further details)**

Activity	Distance within which Cadent advice shall be sought
Piling	15 m
Surface mineral extraction	100 m
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Deep mining	1000 m
Wind turbine	Not permitted within 1.5 times the turbine mast height from the nearest edge of a pipeline (please see www.ukopa.co.uk)

7 Working in the vicinity of a gas asset not exceeding 2 bar

7.3.1 Trenchless techniques

Where trenchless techniques are being considered, a formal risk assessment and method statement shall be produced. This risk assessment and method statement shall be formally agreed with Cadent prior to the commencement of the work. Please provide Cadent with at least 14 days notice as the Cadent responsible person may wish to be present to monitor this work.

7.3.2 Changes to depth of cover

The depth of cover over Cadent's asset shall not be altered. Cadent shall be consulted for any activity proposed that will lead to a change in cover over the asset. Expert advice may need to be sought, which will be determined by the Cadent responsible person.

7.3.3 Piling

No piling shall be allowed within 15 metres of an asset without an assessment of the vibration levels at the asset.

For steel or PE assets, the peak particle velocity at the asset shall be limited to a maximum level of 75 mm/sec.

For ductile or cast iron assets, the peak particle velocity shall be limited to a maximum level of 25 mm/sec.

The promoter of the works should provide Cadent the anticipated vibration levels prior to the work commencing. The ground vibration should be monitored by the promoter to verify the anticipated levels and to ensure allowable peak particle velocity is not exceeded. Alarms should be set at suitable increments to provide a forewarning of limit exceedance. The promoter shall retain records of ground vibration levels for provision of the Cadent responsible person on request.

Where ground conditions include silt or sand, an assessment of the effect of vibration on settlement and liquefaction at the asset shall be made. Expert advice may need to be sought, which can be arranged through Cadent.

7.3.4 Demolition

No demolition should be allowed within 150 metres of an asset for 400m for a structure mass greater than 10000 tonnes without an assessment of the vibration levels at the asset.

For steel or PE assets, the peak particle velocity at the asset shall be limited to a maximum level of 75 mm/sec.

For cast iron or ductile iron assets, the peak particle velocity at the asset shall be limited to a maximum level of 25 mm/sec.

The promoter of the works should provide Cadent the anticipated vibration levels prior to the work commencing. The ground vibration should be monitored by the promoter to verify the anticipated levels and to ensure allowable peak particle velocity is not exceeded. Alarms should be set at suitable increments to provide a forewarning of limit exceedance. The promoter shall retain records of ground vibration levels for provision of the Cadent responsible person on request.

Where ground conditions include silt or sand, an assessment of the effect of vibration on settlement and liquefaction at the asset shall be made. Expert advice may need to be sought, which can be arranged through Cadent.

7.3.5 Blasting

The Maximum Instantaneous Charge (MIC) dictates the distance at which an assessment of the vibration levels (at the located asset) is required. The measured distances are as follows:

- 500 m if the MIC is greater than 200 kg
- 250 m if the MIC is greater than 10 kg but less than 200 kg
- 100 m if the MIC is 10 kg or less.

For steel or PE assets, the peak particle velocity at the asset shall be limited to a maximum level of 75 mm/sec.

For ductile or cast iron assets, the peak particle velocity at the asset shall be limited to a maximum level of 25 mm/sec.

The promoter of the works should provide Cadent the anticipated vibration levels prior to the work commencing. The ground vibration should be monitored by the promoter to verify the anticipated levels and to ensure allowable peak particle velocity is not exceeded. Alarms should be set at suitable increments to provide a forewarning of limit exceedance. The promoter shall retain records of ground vibration levels for provision of the Cadent responsible person on request.

Where ground conditions include silt or sand, an assessment of the effect of vibration on settlement and liquefaction at the asset shall be made. Expert advice may need to be sought, which can be arranged through Cadent.



7 Working in the vicinity of a gas asset not exceeding 2 bar

7.3.6 Surface mineral extraction

An assessment shall be carried out on the effect of surface mineral extraction activity within 100 metres of an asset. Consideration should also be given to extraction around plant and equipment associated with assets (e.g cathodic protection ground beds).

Where the mineral extraction extends up to the asset easement, a stable slope angle and stand-off distance between the asset and slope crest shall be determined by Cadent. Where an easement exists, the easement strip should be clearly marked by a suitable permanent boundary, such as a post and wire fence. Additionally, where appropriate, slope indicator markers shall be erected to facilitate the verification of the recommended slope angle as the slope is formed, by the third party. The asset easement and slope needs to be inspected periodically to identify any signs of developing instability. This may include any change of slope profile including:

- bulging,
- the development of tension cracks on the slope or easement,
- any changes in drainage around the slope.

The results of each inspection should be recorded.

Where surface mineral extraction activities are planned within 100 metres of the asset but do not extend up to the asset easement boundary, Cadent shall assess whether this could promote instability in the vicinity of the asset.

This may occur where the asset is routed across a natural slope or the excavation is deep. A significant cause of this problem is where the groundwater profile is affected by changes in drainage or the development of lagoons.

Where the extraction technique involves explosives, the provisions of **Section 7.3.5** apply.

7.3.7 Deep mining

Assets routed within 1 km of active deep mining may be affected by subsidence resulting from mineral extraction. The determination of protective or remedial measures will normally require expert assistance, which can be arranged through Cadent.

7.3.8 Landfilling

The creation of slopes outside of the asset easements may promote instability within the vicinity of the asset. Cadent should carry out an assessment to determine the effect of any landfilling activity within 100 metres of an asset. The assessment is particularly important if landfilling operations are taking place on a slope in which the asset is routed.

7.3.9 Pressure testing

Pressure testing should not be permitted within 8 m of an asset unless suitable precautions have been taken against the effects of a pipe failure.

7.3.10 Seismic surveys

The promoter of works shall advise Cadent of any seismic surveying work in the vicinity of PE or steel assets that will result in peak particle velocities in excess of 50 mm/sec at the asset or for ductile or cast iron assets that will result in peak particle velocities in excess of 25 mm/sec at the asset.

The promoter of the works should provide Cadent the anticipated vibration levels prior to the work commencing. The ground vibration should be monitored by the promoter to verify the anticipated levels and to ensure allowable peak particle velocity is not exceeded. Alarms should be set at suitable increments to provide a forewarning of limit exceedance. The promoter shall retain records of ground vibration levels for provision of the Cadent responsible person on request.

7.3.11 Hot work

Where the Cadent's metallic gas asset has been exposed, welding (or other hot works that may involve naked flames) should not be carried out in proximity of the gas asset. This may be reduced if suitable protection and precautions have been agreed with Cadent.

If the gas asset is PE (or a PE asset is contained within a metallic sleeve) welding, or other hot works that may involve naked flames, should not take place within 0.5 metres of the gas asset. This may be reduced if suitable protection and precautions have been agreed with the Cadent responsible person to prevent against the effects of sparks, radiant heat transfer etc.

The Cadent responsible person will determine the need to remain on site to monitor all welding, burning or other 'hot work' that takes place.

7.3.12 Wind turbines

Wind turbines shall not be sited any closer than 1.5 times the proposed height of the turbine mast away from the nearest edge of the asset.

7.3.13 Solar Farms

Solar Farms can be built adjacent to assets but never within the easement. Advice shall be sought from Cadent at the early stages of design to ensure that electrical interference, security, future access and construction methods can be mutually agreed.



7 Working in the vicinity of a gas asset not exceeding 2 bar

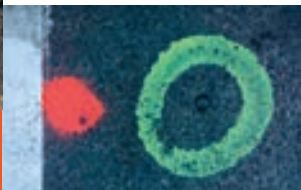
7.4 Backfilling

No backfilling should be undertaken without Cadent's agreement to proceed. The Cadent responsible person will stipulate the necessary consolidation requirements. Some equipment may not be suitable for use over or around the asset due to the adverse effects of excessive compaction and vibration levels. The Cadent responsible person will be able to advise on suitable equipment. Third parties undertaking work shall provide Cadent with 48 hours notice, or shorter notice only if agreed with Cadent, of the intent to backfill over, under or alongside the asset. This requirement should also apply to any backfilling operations that:

- are within 3 metres of the asset, or
- could influence the ground stability.

Any damage to the asset or coating shall be reported to the Cadent responsible person in order that damage can be assessed and repairs can be carried out.

Minor damage to pipe coating and test leads will be repaired by Cadent free of charge. If the asset has been backfilled without the knowledge of the Cadent responsible person, the third party will need to re-excavate to enable the condition of the asset coating to be assessed.



8 Working in the vicinity of an Above Ground Installation (AGI)

Where excavations are to be made within 10 metres of the perimeter of an associated gas installation, appropriate protection methods should be determined and recorded by the Cadent responsible person.

At least 14 days notice is required as Cadent may wish to be on site when specific activities are being undertaken.

In addition to this, the safety advice detailed in either section 6 or 7 shall be observed when working in the proximity of an AGI.

Access to the gas asset should be maintained at all times.

9 Action in the case of damage to the asset

If the Cadent asset is damaged, even slightly, and even if no gas leak has occurred, then the following precautions shall be taken immediately:

- Shut down all plant and machinery and extinguish any potential sources of ignition.
- Evacuate all personnel from the vicinity of the asset
- Notify Cadent using the free 24 hour emergency telephone number 0800 111999
- Notify the Cadent responsible person immediately using the contact telephone number provided.
- Ensure no one approaches the asset.
- Do not try to stop any leaking gas.
- Provide assistance as requested by Cadent, or emergency services to safeguard persons and property.

10 References

NRSA	New Roads & Street Works Act
HS(G)47	HSE Guidance ‘Avoiding Danger from Underground Services’
IGEM/SR/18	Safe Working Practices to Ensure the Integrity of Gas Pipelines and Associated Installations (Institution of Gas Engineers)

11 Glossary of Terms

Easement

Easements are negotiated legal entitlements between Cadent and landowners and allow Cadent to lay, operate and maintain assets within the easement strip. Easement strips may vary in width, typically between 6 and 25 metres depending on the diameter and pressure of the pipeline. Consult Cadent for details of the extent of the easement strip where work is intended.

Liquefaction

Liquefaction is a phenomenon in which the strength and stiffness of the soil is reduced by earthquake shaking or other rapid loading. Liquefaction occurs in saturated soils, that is, soils in which the space between individual particles is completely filled with water. When liquefaction occurs, the strength of the soil decreases and the ability of the soil to support assets are reduced.

Promoter of works

The person or persons, firm, company or authority for whom new services, structures or other works in the vicinity of existing Cadent assets are being undertaken.

Cadent responsible person

The person or persons appointed by Cadent with the competencies required to act as the Cadent representative for the purpose of monitoring the particular activity.

Banksman

Another person who assists the machine operator to drive from a position where they can safely see into the excavation and warn the driver of any services or other obstacles.

This person should remain outside of the operating radius of the excavator arm and bucket.

Appendix A

Asset location markers



Emergency

If you hit an asset, whether the damage is visible or not, or in the event of an emergency, call the National Gas Emergency Service immediately on

0800 111 999*

*All calls are recorded and may be monitored

If you are planning to do work near or in the vicinity of an asset, please contact the Plant Protection team for free on:

**0800 688 588*
plantprotection@cadentgas.com**

Cadent Plant Protection
Block 1
Brick Kiln Street
Hinckley
LE10 0NA

Self service for plant enquiries

beforeyoudig.nationalgrid.com

This is a free online enquiry service giving results within minutes from a grid reference, postcode or street name. This site allows you to submit enquiries about activities and work that you are planning, which may have an impact on the Cadent gas distribution and networks.

linesearchbeforeudig.co.uk

This is a free online enquiry service giving instant results from a grid reference, postcode or street name. If your result is within a zone of interest, you can click directly through to **cadentgas.com/digging-safely**.

Note

Linesearch service is not available for all Cadent assets. Therefore, please click on the Cadent link or call Plant Protection to ensure you have all the available information.

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APPENDIX 3 – Points of Connection

Mr David Vickers
Technical & Development Services (Northe
Northern House
3A Kennerleys Lane
Wilmslow
SK9 5EQ

Our Ref: 5500206761/A

T: 0800-195-4141
DD: 07818587049
E: sam.ingham@enwl.co.uk

07 July 2021

Dear Mr David Vickers

Re: DNO Point of Connection at Bringham Street, Manchester, M11 2JJ

Thank you for your recent enquiry requesting a quotation in relation to the above.

Our price for carrying out the statutory works, detailed in the project specification, is £1,330.00 plus VAT of £266.00 totalling £1,596.00.

The quotation is valid for a period of 180 days from the date of this letter. A detailed price breakdown can be found on the following pages.

The works and the assumptions made in calculating our price are based on your application and are detailed in the Project Specification. Please take time to read through and check these details and should you wish to make any amendments please notify us at the earliest opportunity.

The offer is subject to Electricity North West General Conditions of Contract and the Project Specification. A full copy of the Electricity North West Limited General Conditions of Contract (business) can be viewed at <https://www.enwl.co.uk/get-connected/our-services/terms-and-conditions/>. If you are unable to access the internet please contact us on 0800 048 1820 and we will post a copy to you.

There is a new Competition in Connections Code of Practice that came into effect on the 30th October 2015. This party enables third party connectors to undertake more activities associated with a new connection. Further details can be found on our website.

To enable you to comply with the Construction (Design and Management) Regulations 2015, a full method statement will be provided to you once we acknowledge receipt of your signed Customer Acceptance Form. The statement will reflect the generic and site-specific risks and the working methods adopted by our appointed contractor for works undertaken on behalf of Electricity North West. If you wish to proceed, please return the following by email to cic@enwl.co.uk or by post to the address above

- Completed Customer Acceptance Form.
- Payment for the full amount of the price stated including VAT at the appropriate rate by cheque payable to Electricity North West Limited or BACS / CHAPS transfer.
- Design Approval pack from a NERS accredited company.

There are occasions where we receive two or more applications for connections which make use of the same part of the Distribution System. These may become "Interactive Connection Applications", which would result in a change to your quotation. We have a strict process to ensure fairness and you can find some guidance on Interactivity on our website <https://www.enwl.co.uk/get-connected/apply-for-a-new-connection/interactivity/>. When compiling this quotation, no interactivity with other connection schemes existed. However, since our network is dynamic, there is a possibility that this scheme may become interactive if applications are made before you accept this quotation. In this scenario we will be obliged to contact you with a notice of interactivity and a new quotation

We would like to thank you for your valued enquiry and look forward to working closely with you in due course. If you require any further assistance please do not hesitate to contact me.

Yours sincerely,

Sam Ingham
Electricity North West

Description of the works

The charges included are for POC charges:

- Assessment and Design

The charges do not include for:

- Land acquisition costs for legal consents etc
- Electricity North West HV &/or LV network energisation connection.
- Damage to crops / land during operational access / work etc.
- Unidentified HV &/or LV infrastructure diversion works.
- Out of hours working.
- For additional bespoke information, please refer to the project specification.

Quotation price

The quotation price is provided based upon your application and the information you provided. The quotation only contains the non contestable charges associated with the new connection, this may include any contestable diversion and reinforcement costs.

Non Contestable Charges

If you require a full description of the non contestable charges these can be viewed on our website

<https://www.enwl.co.uk/get-connected/apply-for-a-new-connection/common-charging-methodology/>. If you are unable to access the internet please contact us on 0800 048 1820 and we will post a copy to you.

Determinations

We hope you are satisfied with the service Electricity North West has provided and hope that any possible disputes have been resolved satisfactorily. However if a situation should arise and we are unable to reach a mutually acceptable solution, you can contact The Energy Ombudsman, who will assist in resolving the dispute. You can contact The Energy Ombudsman in writing to PO BOX 966, Warrington, WA4 9DF, by telephone on 0845 055 0760 or online at www.energy-ombudsman.org.uk

BREAKDOWN OF CHARGES

Non Contestable Charges		
Connection Charges	Quantity	Charge
Assessment Charges	1	£1,000.00
Design Charges	1	£330.00
Total Non Contestable Charge		£1,330.00
Total Charge		£1,330.00

CUSTOMER ACCEPTANCE FORM

Customer: Technical & Development Services (Northe
Project title: DNO Point of Connection at Brigham Street
Site address: Manchester, M11 2JJ

Our Reference: 5500206761/A

I accept your offer, dated 07 July 2021 for the works referenced above and any subsequent charges, as detailed in the project specification.

I agree to pay £1,330.00 plus VAT of £266.00 totalling £1,596.00 and payment for the full amount.

I acknowledge and agree that the works are subject to the Electricity North West General Conditions of Contract, a copy of which I have read.

I acknowledge that I must appoint an electricity supplier to the site before the connection/s can be made live.

The site will be ready for Electricity North West to commence works on _____ (please enter date).
However I have read and understand clause 7 of the Electricity North West General Conditions of Contract, in relation to commencement of the works.

Signature of customer or authorised signatory on behalf of customer:	
Date:	
SITE CONTACT DETAILS	
Contact Telephone Number:	
END USER DETAILS*	
Company/Customer Name:	
Customer Contact:	
Customer Telephone:	
Full Postal Address:	
Contact Name & Address (if different to site address):	

* If there are multiple End Users, please provide additional details.

WAYLEAVE DETAILS (if different from End User)**	
Name and Address of Landowner:	
Landowner Telephone:	

** If there are multiple Landowners, please provide additional details.

Acceptance must include payment by cheque, made payable to Electricity North West Limited or by BACS/CHAPS in accordance with the guidance available on our website via the following ['Payment Guide'](#)

If you are going to self approve your scheme design in line with the [Competition in Connections Code of Practice](#) please tick here (). The ENWL's user guide can be located on our [website](#)

POC PROJECT SPECIFICATION

Connections

A system study has now been carried out based on the information you provided:

Total load requirement of your connection is 60 kVA and consists of:

DNO Point of Connection at Bringham St, Manchester, M11 2JJ

LV Point of Connection 1

A Point of Connection has been identified on the Electricity North West Limited Low Voltage Network to be taken from an existing 4c.25 PILC cable as shown on the enclosed plan. The cable is supplied from Victoria St - 172103 Substation via a 800kVA transformer and 400 A fuses.

Percentage Volt Drop at POC = 1.26% (including the new load)

Percentage Volt Drop at POC = 0.95% (excluding the new load)

Earth Loop Impedance at POC = 0.052Ω

Our quotation excludes all works from the point of connection to your interface.

This Point of Connection is valid for 180 days from the date of this quotation.

Offer Conditions

Application for a Point of Connection

- 1) The Point of Connection (POC) will be determined on the basis of the information on your application form and will not be guaranteed if any undeclared characteristics of the proposed load are found to cause electrical disturbances to the electricity network greater than those inferred on the original application form.

- Assessment & Design charges
- Inspection Charges
- Initial Energisation Cost*
- Associated Diversion Work
- Associated Reinforcement Work
- Operation & maintenance charges (only if over and above the minimum cost scheme)
- Costs for obtaining legal consents for the development

* The Initial Energisation Cost is for energisation of the installation at the POC only and will only be included in the offer if the network connection/s is a non-contestable joint/s or termination/s. It does not include for any on site non-contestable jointing work that may be requested following the initial energisation or for the energisation of any low voltage network if the POC was provided at high voltage.

- 2) The above charges become contractual on acceptance of the point of connection and will be included in the Electricity North West Limited 'Agreement to Adopt' contract which will be issued following design approval.
- 3) In certain circumstances diversion and reinforcement works are open to competition and are therefore classed as contestable (See Page 71, Section 6.12, Methodology and Charges for Connections Statement). If appropriate and if requested, a breakdown of the non-contestable elements for diversion and reinforcement costs may be supplied.
- 4) Indicative costs are given in Electricity North West Limited 'Statement of Methodology and Charges for Connection to the Electricity Distribution Network' which can be found on Electricity North West Limited web site: www.enwl.co.uk

Operational / Legal Consents

- 1) The Independent Connection Provider(ICP)/developer is legally responsible for and must make their own arrangements to obtain any legal consents to install or lay any electric line or cable on land owned by a third party. e.g. on privately owned land outside the development site. Electricity North West Limited will only obtain legal consents in so far as they are necessary or desirable for the operation of Electricity North West Limited network after asset adoption.

This will include any legal consents which the developer is required to grant for electric lines or cables within the development site which will be adopted by Electricity North West Limited. No electric lines or cables shall be installed in land not owned by the developer before agreement is reached with the landowner. This POC is, therefore, dependant on the ICP/developer being able to reach agreement with any third party landowner for any electric lines or cables, or any part thereof, which will be installed at or from the POC.

Please note that the date of energisation for the installation will not be arranged until all operational/legal consents have been completed with Electricity North West Limited.

- 2) Operational/Legal Consents include:

- Any easement, wayleave or licence required for any electric line or cable laid from the POC in private land which does not or will not form part of the public highway.
- Any lease or freehold transfer of land required for substations.
- Any Planning or statutory consent required in respect of any of the above.

- 3) The ICP/developer will be responsible for the cost of reinstating any damage to land not within the development site and for any for any costs associated with the acquisition of Operational/Legal Consents.

Health and Safety

- 1) The following information is given to assist you in maintaining safe working practices on the site:

Electricity North West Limited plans carry an endorsement stamp that is there for your safety. Before any machines are used, all of Electricity North West Limited underground assets should be located by manual excavation. All excavation should be done by taking the appropriate safety precautions in the 'Health and Safety Executive Guidance Note G47' 'Avoiding Danger from Underground Services'; taking cognisance of the fact that other plant may be in the vicinity which is not shown on the plans. Please ensure that the current issue of plans is referred to before commencing work on site.

Acceptance of Point of Connection

- 1) If you wish to accept the Point of Connection, a completed 'Acceptance' form with payment in full must be returned before the validity date expires. If your acceptance is not received before the expiry date then the available capacity on our network could be made available to subsequent applicants.
- 2) Your design submission must be submitted within 30 days of acceptance of the POC and must include the Design Submission Check List form. If your design is not received within the time stated then your acceptance will lapse and the point of connection could be allocated to another applicant without notice. Under exceptional circumstances you may apply in writing for a further 30 days extension. You will also be liable for any abortive costs incurred in failure to comply with the above.
- 3) These forms are an integral part of the design submission and the process of design approval will not start until they have been received. Any errors on the forms will also delay the start of the process.

- 4) Following design approval, Electricity North West Limited will issue the ICP with an 'Agreement to Adopt' contract. The ICP will then be responsible for obtaining all required signatures on the 'Agreement to Adopt'. Electricity North West Limited will not undertake any activities associated with the electricity connection works until this Agreement has been signed, this includes any audits of the work intended to be adopted. It should be noted that Electricity North West Limited will not adopt any new connections work that we have not had an opportunity to audit until we are satisfied that the installation meets Electricity North West Limited standards.

Generation

- 1) Unless it is included within your application, you must contact Electricity North West Limited if you intend to provide facilities to allow the export of electricity (including by means of CHP, solar cells, wind turbines etc) into the electricity distribution network or operate on site generation that interconnect with our supplies, including as a means of an emergency supply. We reserve the right to amend our price and programme of works in association with these facilities.

Non-Linear Loads (motors, welders and rectifiers)

- 1) Motors, Welders, and other equipment likely to affect the supplies to other consumers must not be connected without prior approval from Electricity North West Limited.
- 2) For all non-linear loads, it is your responsibility to ensure that the cumulative effect of any harmonic-generating equipment (e.g. Rectifiers, invertors & variable speed motor drives) complies with Industry Standards. If complaints are received from other customers connected to the Distribution System regarding supply disturbance and these can be directly attributed to your equipment, then Electricity North West Limited reserve the right to insist that you disconnect the offending equipment remedial action is taken by yourself, at your expense.

Disconnection

- 1) We have not included the costs for any existing service disconnection/s in our quotation. For all disconnections please contact Electricity North West Customer Service on 0800 048 1820.

"DANGER"
HIGH VOLTAGE CABLES PRESENT
EXPOSE ALL CABLES BEFORE
JOINTING

For Planning Purpose Only



PROJECT DETAIL	
Title:	DNO POC
Address:	Brigham St, Manchester, M11 2JJ
Scheme Ref Number:	5500206761
Drawn By:	Sam Ingham
Date:	07-Jul-2021
Grid Reference:	(X) 388221 (Y) 397818
Scale:	N.T.S
Point of Connection Expiry Date: Valid for a period of 180 days from the date of the Quotation	

Title: DNO POC

Address: Brigham St, Manchester, M11 2JJ

Scheme Ref Number: 5500206761

Drawn By: Sam Ingham

Date: 07-Jul-2021

Grid Reference: (X) 388221
(Y) 397818

Scale: N.T.S

Point of Connection Expiry Date:
Valid for a period of 180 days from the date of the Quotation

POINT OF CONNECTION TECHNICAL DETAIL	
Cable Size @ P.O.C :	3c.185 ASN
Voltage :	240-415 Volts
Minimum Cable Size :	
Loop or Teed (HV only)	
Feeder Name / No :	Bob Massey - 171327
Transformer Size :	500 kVA
Fuse Size :	400 Amps
Earth Loop Impedance :	0.086 ohms
% Voltage Drop	
1) Including site load	2.45 %
2) excluding site Load	1.73 %
Generation:	
Voltage Rise relative to primary BB :	%
Positive sequence R+JX (% on 100MVA base)	
Notes :	
For reference only	

Cable Size @ P.O.C : 3c.185 ASN

Voltage : 240-415 Volts

Minimum Cable Size :

Loop or Teed (HV only)

Feeder Name / No : Bob Massey - 171327

Transformer Size : 500 kVA

Fuse Size : 400 Amps

Earth Loop Impedance : 0.086 ohms

% Voltage Drop	
1) Including site load	2.45 %

2) excluding site Load	1.73 %
-------------------------------	---------------

Generation:

Voltage Rise relative to primary BB :	%
--	----------

Positive sequence R+JX (% on 100MVA base)

Notes :

For reference only

DANGER OF DEATH

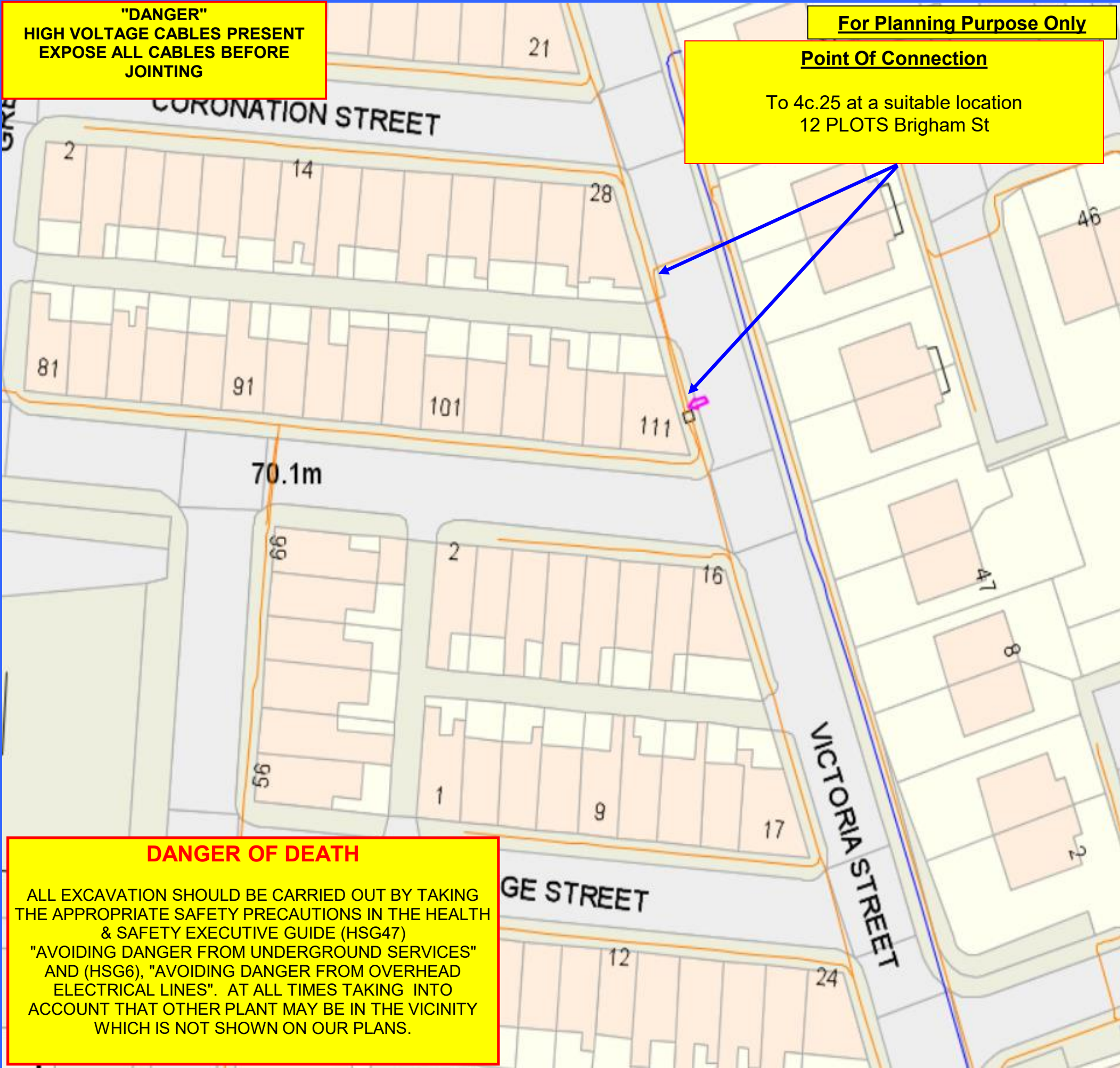
ALL EXCAVATION SHOULD BE CARRIED OUT BY TAKING THE APPROPRIATE SAFETY PRECAUTIONS IN THE HEALTH & SAFETY EXECUTIVE GUIDE (HSG47) "AVOIDING DANGER FROM UNDERGROUND SERVICES" AND (HSG6), "AVOIDING DANGER FROM OVERHEAD ELECTRICAL LINES". AT ALL TIMES TAKING INTO ACCOUNT THAT OTHER PLANT MAY BE IN THE VICINITY WHICH IS NOT SHOWN ON OUR PLANS.

ALL EXCAVATION SHOULD BE CARRIED OUT BY TAKING THE APPROPRIATE SAFETY PRECAUTIONS IN THE HEALTH & SAFETY EXECUTIVE GUIDE (HSG47) "AVOIDING DANGER FROM UNDERGROUND SERVICES" AND (HSG6), "AVOIDING DANGER FROM OVERHEAD ELECTRICAL LINES". AT ALL TIMES TAKING INTO ACCOUNT THAT OTHER PLANT MAY BE IN THE VICINITY WHICH IS NOT SHOWN ON OUR PLANS.

This plan is issued by Electricity North West Limited. Unless otherwise indicated Electricity North West Limited cables are laid at depths in accordance with NJUG 2 (typically 450mm for Low Voltage & 600mm for 11KV cables in footpath). 33KV/132KV cables are laid at depths as marked. The depths and positions of Electricity North West Limited equipment was accurate as shown when the equipment was installed. However, third parties may have altered the surface level & other reference data. Therefore Electricity North West Limited accept no responsibility for the position of Electricity North West Limited equipment being different from that shown. No person, body or company, shall be relieved from liability for damage caused to Electricity North West Limited equipment by reason of being located differently to the indications on this drawing. Service cables are not necessarily shown but must be assumed to exist to all premises, streetlights and signs. There may be other Electricity North West Limited apparatus in the vicinity which is not indicated in the cable records.



Other apparatus may also be present which is owned by a third party other than Electricity North West Limited. Reproduced from or based upon Ordnance Survey's map with permission of the controller of Her Majesty's Stationery Office. Crown Copyright Reserved. LICENCE No 100017892. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. Reference should be made to HSE guidance HS(G)47 "Avoiding Danger from Underground Services" and GS6 "Avoidance of Danger from Overhead Power Lines". Electricity North West Limited, registered number 2366949, registered in England and Wales, registered office: 304 Bridgewater Place, Birchwood Park, Warrington, WA3 6XG



PROJECT DETAIL

Title:	DNO POC
Address:	Brigham St, Manchester, M11 2JJ
Scheme Ref Number:	5500206761
Drawn By:	Sam Ingham
Date:	07-Jul-2021
Grid Reference:	(X) 388221 (Y) 397818
Scale:	N.T.S
Point of Connection Expiry Date: Valid for a period of 180 days from the date of the Quotation	

POINT OF CONNECTION
TECHNICAL DETAIL

Cable Size @ P.O.C :	3c.185 ASN
Voltage :	240-415 Volts
Minimum Cable Size :	
Loop or Teed (HV only)	
Feeder Name / No :	Victoria St - 172103
Transformer Size :	800 kVA
Fuse Size :	400 Amps
Earth Loop Impedance :	0.052 ohms
% Voltage Drop	
1) Including site load	1.26 %
2) excluding site Load	0.95 %
Generation:	
Voltage Rise relative to primary BB :	%
Positive sequence R+JX (% on 100MVA base)	

Notes :

For reference only



Other apparatus may also be present which is owned by a third party other than Electricity North West Limited. Reproduced from or based upon Ordnance Survey's map with permission of the controller of Her Majesty's Stationery Office. Crown Copyright Reserved. LICENCE No 100017892. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. Reference should be made to HSE guidance HS(G)47 "Avoiding Danger from Underground Services" and GS6 "Avoidance of Danger from Overhead Power Lines". Electricity North West Limited, registered number 2366949, registered in England and Wales, registered office: 304 Bridgewater Place, Birchwood Park, Warrington, WA3 6XG

Network Enquiry No : 180013490
Your Reference : M11 2JJ

Cadent Gas Limited

National Gas Emergency Service - 0800 111 999* (24hrs)
*calls will be recorded and may be monitored

David Vickers
TDS Northern
3A KENNERLEYS LANE
WILMSLOW
SK9 5EQ

Date : 30th June 2021
Contact : Performance and Support
Direct Tel : 0845 3666758
Email : networkdesign@cadentgas.com

www.cadentgas.com

Dear David,

Re: Land Enquiry for Proposed Development Site at NEW SUPPLY, BRIGHAM ROAD, MANCHESTER, M11 2JJ.

Thank you for your enquiry which we received on 23rd June 2021. I enclose details of Cadent Gas plant in the vicinity of your proposed supply.

The nearest main with sufficient capacity is 5 metres from the site boundary and it is a Low Pressure main.

This Developer Enquiry response is a reflection of the network at the time delivered and is not a guarantee of gas flow or capacity due to the changing dynamics of the gas distribution network. If you wish to secure capacity and connect to the network please submit quotation Connections Request via the official connections route allowing for further analysis to verify the capability of the network again.

Standard design pressures have been used. Refer to www.Cadentgas.com

Please be aware of existing mains or services within the site boundary that may require diversionary or abandonment works, this will be costed upon receipt of a firm request.

Plans attached: Yes

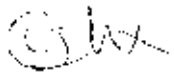
A copy of the Cadent Connections Charging Statement referenced in this letter can be found on Cadent's website:

<http://cadentgas.com/Get-connected>

If you require a printed version please contact us on the details provided above.

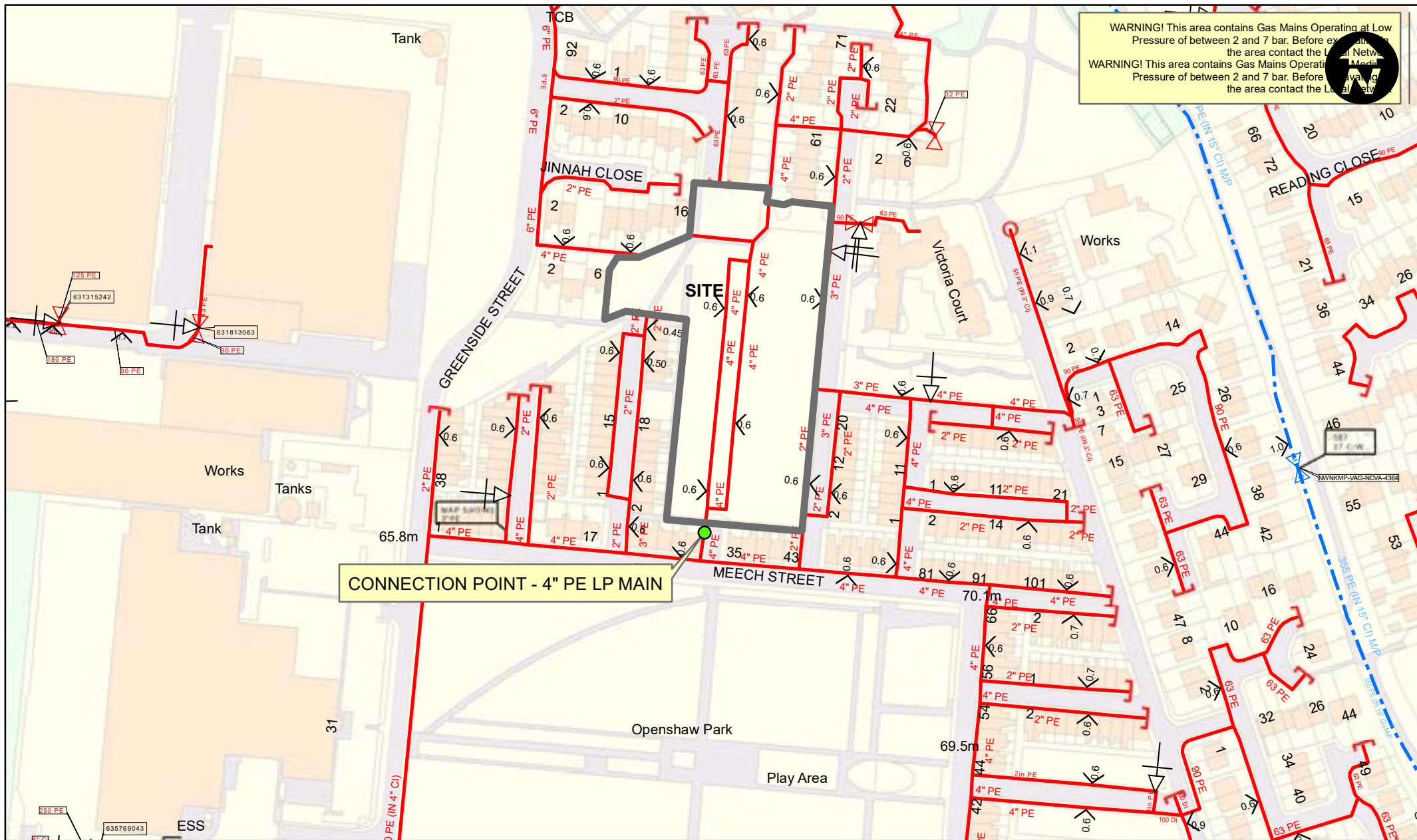
I trust this meets with your requirements at this stage. If you have any queries please do not hesitate to contact Performance and Support on the above number.

Yours sincerely,



Laura Cheshire





SCALE: 1:500 @ A4
USER ID: James.Mason
DATE: 24-Jun-2021 14:58:04
INTERNAL USE ONLY
OS Ref: 388211, 397788
CENTRE: <Centre>

L/P GAS MAIN
M/P GAS MAIN
I/P GAS MAIN
H/P GAS MAIN
N/H/P GAS MAIN
PROPOSED PIPE - LP
PROPOSED PIPE - MP
PROPOSED PIPE - IP
ABANDON - LP
ABANDON - MP
Out Of Standard Service



Some examples of Plant Items:



SCHEME: <NG GDFO Scheme Name>
DESIGN: <NG GDFO Design Number>
REVISION: <NG GDFO Revision>

This plan shows those pipes owned by Cadent 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 plans 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 Limited 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 any 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.

180013490

Cadent

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Your Guidance for your Point of connection enquiry



TDS Northern Ltd
3A Kennerleys Lane
Wilmslow
SK9 5EQ

FAO: David Vickers

United Utilities Water Limited
Developer Services Water
Water Connections
Second Floor Grasmere House
Lingley Mere Business Park
Lingley Green Avenue
Warrington WA5 3LP

Telephone: 0345 072 6067
Email: developerserviceswater@uuplc.co.uk

Your Ref:
Our Ref: JAD/4100493173
Date: 29.06.2021

Dear Sir

Location: Brigham Street, Manchester, M11 2JJ

Based upon the information provided in your recent enquiry, and the current guidelines, the point of connection for your development will be the nearest practical point on the existing network.

The point of connection for your development will be supplied from the existing 4" AC 1953 water main located on Meech Street and the 100mm DI 1977 water main located on Brigham Street, as shown on the attached drawing.

Existing United Utilities water assets

To help you plan your development I have enclosed a copy of our asset records. This shows that we have operational assets within the boundaries of your proposed development.

You may be able to design your development in such a way that our operational assets can remain in their current location, but if this is not possible any equipment affected by the development will need relocating to an agreed alternative position.

Regarding the existing water mains surrounding your development, you must establish the true position of these water mains, the lines and levels should be plotted onto your proposed layout, and a copy of the plan should then be sent to this office for my attention for approval. Please note, that if damage does occur as a result of your works, the repair/replacement of the mains network/surface boxes will be fully rechargeable to yourselves.

If you decide to take your development forward, please contact us as early as you can so that we can agree a new location for the existing assets, and to agree timescales and firm costs for the work.

Additional

It is the responsibility of the developer to arrange for the disconnection of the existing services to site. Note billing only accepts written requests to email: customer.services@uuplc.co.uk

You will need to attach the bill and the request to disconnect and confirm if the property was domestic or commercial.

Should there be any private water mains / connection(s) within the site, any necessary disconnection or diversion of the private mains / connections (s) must have the approval of the pipeline owner and be carried out to our standards at the developer's expense.

Important note

This copy of our asset records is only provided to help you assess the likely risks when planning your development at a desk top stage. It is not intended to be used for planning any actual excavation or construction work. You are reminded that a Health and Safety plan should include an up to date record of all underground equipment.

Infrastructure Charges

Based on the information you have provided we would advise you to allow a budget of £581.00 per plot for water and wastewater infrastructure charges for the planned (33) new connections. At present this charge is outside the scope of VAT.

Infrastructure Credits

We have no record of any water or sewerage connections to previous premises on this site within the last 5 years. This means that we are unable to offer any infrastructure credits against new connections on your proposed development.

Income Offset

Income offset is levied against the Infrastructure Water charge and is applicable to all plots which are using water for domestic purposes which have not received an infra credit. The per plot allowance for this is £778.00 so in this instance the amount due to you for the 33 number of plots is £25,674.00. Please note this figure is only applicable for connections made in this financial year.

What to do next:

If you decide to proceed with your development, you can choose between requisitioning your new clean water directly from us, or you can employ a contractor directly to self-lay the new mains. A list of approved installers is available at Lloyds Register www.lr.org.

We have a booklet "Obtaining water supplies for new developments - Guidance notes for developers" which is available on request or can be downloaded from our website unitedutilities.com. This document contains information to help you make the right choice for your new water main or water connection.

Please do not hesitate to contact us should you need further assistance on 0345 072 6067 or email to Developerserviceswater@uuplc.co.uk, always using our reference number provided on this letter.

Yours faithfully

Jillian Doney
Project Design Engineer

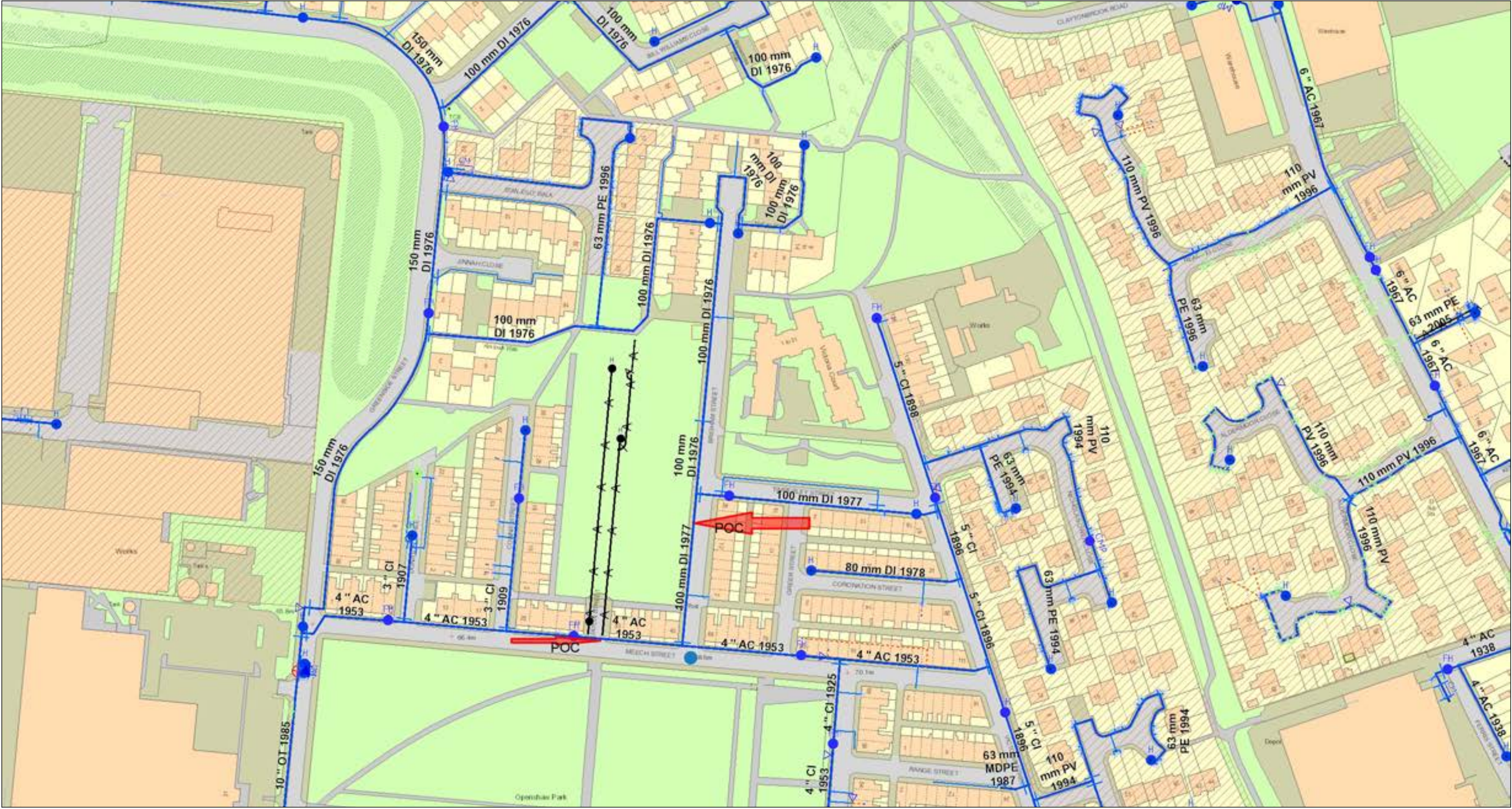
Enc. UU assets plan
 Standard Conditions for Works Adjacent to Pipelines

Water Industry Act Section 47(3) Counter Notice

Please note that in accordance with Section 47(3) of the Water Industry Act 1991, United Utilities Water requires compliance with the conditions below, prior to the connection of any service connection to any of United Utilities Water's mains that form part of your requisition application.

- Advance security may be required to be lodged with United Utilities Water equal to the total value of any connections and associated ancillary works. We will in due course estimate the cost of these works and provide you with the value of any security that may be required.
- Premises under separate occupation must be supplied by separate individual service pipes.
- Where it is deemed appropriate by United Utilities Water, a meter will be installed to determine the volumetric charge for the supply of water which can be connected by our contractor or by an approved third party in accordance with United Utilities Water's specification.
- Laying of the service pipe to a depth of no less than 750mm and no more than 1350mm below finished ground level, within the private land from the Street boundary into your premises. Service pipes must be installed to United Utilities Water's current specifications, and have a stopcock fitted. Standard connections (up to 25mm OD) shall consist of an un-jointed appropriate type and construction of pipe with marker tape laid no more than 400mm below finished ground level. Provision for volumetric metering must be installed fully in accordance with United Utilities Water's current specifications.
- If you are installing new plumbing or making alterations to existing internal plumbing arrangements, you must ensure that the plumbing complies with the Water Supply (Water Fittings) Regulations 1999 and with United Utilities Water's specification for the purposes of ensuring it will be reasonably practicable to install and connect a meter.
- Where your development or property requires water to be delivered at a height greater than 10.5 metres below the draw off point of the reservoir or tower supplying the area it is a requirement, in accordance with Section 66 of the Water Industry Act 1991, that you install a cold water storage cistern to cover twenty-four hours demand.
- Any outstanding charges payable as a result of a disconnection notice or any charges payable for any outstanding compliance requirement from any Section 75 notice that has been served (waste, contamination or misuse) have been paid in full.

In addition to the statutory conditions above, if you have yet to provide us with a full postal address for the property/s to be connected, please remember that we will need this information before we can make any service connection/s. If you have not yet obtained or agreed this information with your local planning authority, we strongly recommend that you contact your planning representative as soon as possible to prevent your connection being delayed later on in the process.



The position of the underground apparatus shown on this plan is approximate only and is given in accordance with the best information currently available. United Utilities Water will not accept liability for any loss or damage caused by the actual position being different from those shown.