CORNERSTONE PROJECTS LTD

Utilities Search Report



Monday, 29 Apr 2024

Hilson Moran

35803

Saffron Walden

91 Market Street Hoylake Wirral CH47 5AA
Tel. 0151 632 5142
enquiries@cornerstoneprojects.co.uk
www.cornerstoneprojects.co.uk
VAT Reg. No. 851 4941 19
Company No. 5132353

Registered in England. Registered Address : Cornerstone Projects Ltd, 91 Market Street, Hoylake, Wirral CH47 5AA

Table of contents:

Utility / Service	Included		Utility / Service	Included
Basic Search			**Independent Utilities**	
Gas	**Yes**		GTC	**Yes**
Water	**Yes**		Last Mile	**Yes**
Sewers	**Yes**		SSE	**Not Affected**
BT	**Yes**		Harlaxton	**Not Affected**
Electricity	**Yes**		Utility Assets	**Not Affected**
3rd Party Searches*	**Yes**		UK Power Distribution	**Yes**
			Albion Water	**Not Affected**
Cable Search			ESP	**Not Affected**
Vodafone	**Yes**		Fulcrum Pipelines	**Not Affected**
Virgin Media	**Yes**		Energy Assets	**Not Affected**
BSkyB	**Yes**		Equans	**Not Affected**
EXA Infrastructure	**Not Affected**		Leep Utilities	**Not Affected**
Colt	**Yes**		Eclipse Power Networks	**Yes**
Sota	**Not Affected**			
CGI Logica	**Not Affected**		**Others**	
Neos Networks	**Not Affected**		CAD Pack	**Not Requested**
City Fibre	**Yes**		Smart pdf	**Not Requested**
Arelion frmly Telia	**Not Affected**		CA & EA Search	**Not Requested**
Lumen Technologies	**Yes**		Exolum	**Yes**
KCom	**Not Affected**		DIO	**Yes**
Verizon	**Yes**			
Zayo Group	**Not Affected**			
Tata Communications	**Not Affected**			
Gamma	**Not Affected**			
Gigaclear Plc	**Not Affected**			
*Includes Utilibilly and Linesearch				
"Not affected" responses are deemed as such from the 3rd Party Searches				
NB: All plans / responses are valid for a maximum of three months unless noted otherwise				

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Summary of your utility search details:

Site Name	Saffron Walden	
Site Ref	35803	
Address	Land south of Radwinter Rd, East of Griffin Place, CB10 2NP	
Postcode	CB10 2NP	
Grid Ref	E 555781	N 238175

Area Covered



Options Selected		Options Selected	
Gas	✓	**Independent utilities search - inc non-chargeable searches**	✓
Water	✓	Harlaxton	✓
Sewer	✓	UK Power Distribution	✓
Electric	✓		
BT	✓	**Coal Authority search**	X
3rd Party searches	✓		
		Other Options	
Cable / Fibre searches inc non-chargeable searches	✓	CAD Pack	X
Virgin Media	✓	CAD OS mapping	X
Vodafone	✓	Smart pdf	X
		Instant Access Plans	X

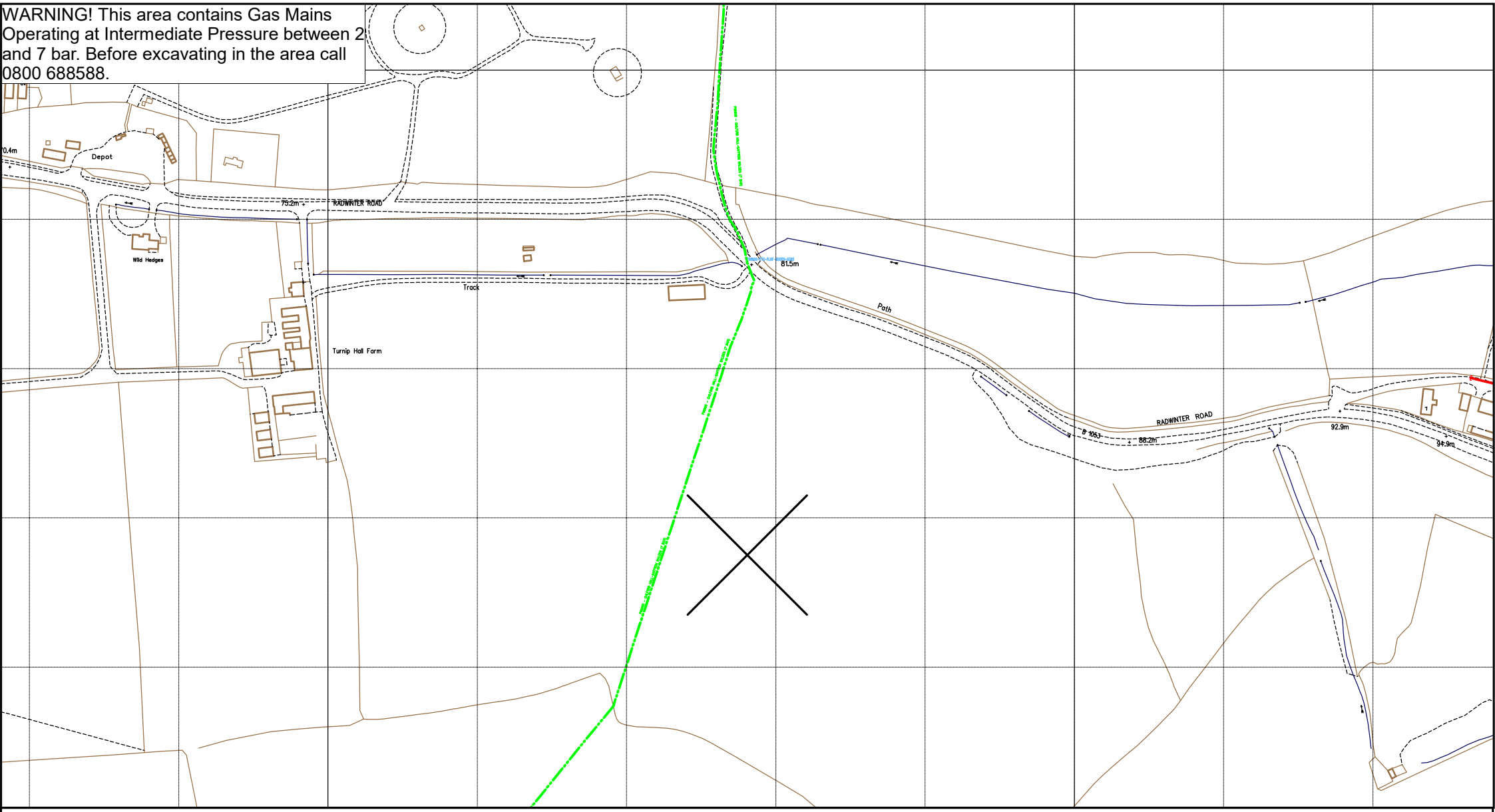
CORNERSTONE PROJECTS LTD

GAS

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WARNING! This area contains Gas Mains Operating at Intermediate Pressure between 2 and 7 bar. Before excavating in the area call 0800 688588.



SCALE: Not to scale	
USER ID: PC31Gina	
DATE: 17/04/2024	
EXTRACT DATE: 08/12/2023	
MAP REF: TL5538	
CENTRE: 555781, 238275	

LP MAINS
MP MAINS
IP MAINS
LHP MAINS

Some examples of Plant Items:

Valve | Depth of Cover | Syphon | Diameter Change | Material Change | Out of Standard Service

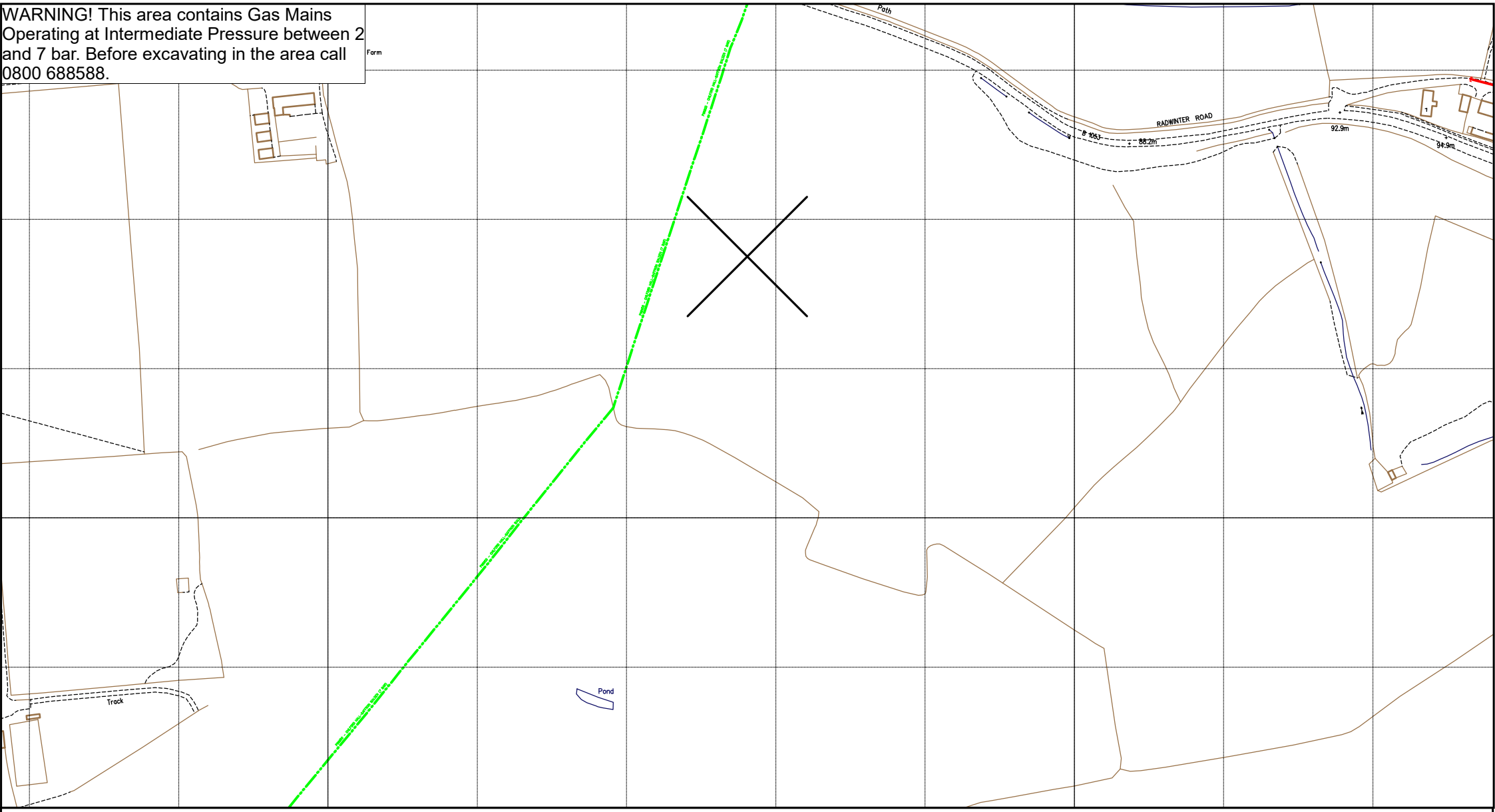
This plan shows those pipes owned by Cadent Gas Ltd in their role as a Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown on this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

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USER ID: PC31Gina

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EXTRACT DATE: 08/12/2023

MAP REF: TL5538

CENTRE: 555781, 238075

LP MAINS

MP MAINS

IP MAINS

LHP MAINS

Some examples of Plant Items:

Valve | Depth of Cover | Syphon | Diameter Change | Material Change | Out of Standard Service

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Searches - Cornerstone Projects Ltd

From: plantprotection@cadentgas.com
Sent: 17 April 2024 13:17
To: searches@cornerstoneprojects.co.uk
Subject: LSBUD Ref: 33129444 Your Ref: 35803 DBYD Initial Enquiry
Attachments: 33129444_CadentGas.pdf

Date: 17/04/2024
LinesearchbeforeUdig ref: 33129444
Your ref: 35803

Dear Sir/Madam,

Please submit a planned works enquiry for your project

We have received a notification from the LinesearchbeforeUdig (LSBUD) platform regarding your initial enquiry to undertake works. As this is an initial enquiry, we haven't undertaken an assessment into the impact and risk posed to our assets. We need more information from you to do so.

You must not start any work until we confirm it is safe to do so after submission of a planned works enquiry.

There are Cadent gas pipes in the area you're planning to work. These pipes may impact and possibly prevent your work for safety or legal reasons.

If your works are proposed to be undertaken in an easement, please note any auto-response from our enquiry system does not constitute written consent and formal, signed written consent which will only be provided following consultation with our plant protection team.

What you need to do

To help develop your initial enquiry into a planned works enquiry, please review our attached plans, which detail the Cadent gas assets in the area along with our key guidance document Specification for Safe Working in the Vicinity of Cadent Assets.

Once you have a plan for review by our engineering teams, please submit a "Planned Works" enquiry via LSBUD. In the meantime, if you want to discuss specifics associated with your initial enquiry please contact us at plantprotection@cadentgas.com or on 0800 688 588 quoting your reference at the top of this letter.

Your responsibilities and obligations

It is your responsibility to ensure that the information you have given us is accurate, therefore you must not undertake any works until a planned works enquiry has been submitted for assessment. You must also share all relevant documents, including the guidance notes, with anyone who carries out work on your behalf.

Cadent may have a Deed of Easement on the pipeline, which provides us with a right of access for a number of functions and prevents change to existing ground levels and storage of materials. It also prevents the erection of permanent/temporary buildings, or structures. If necessary Cadent will take action to legally enforce the terms of the easement.

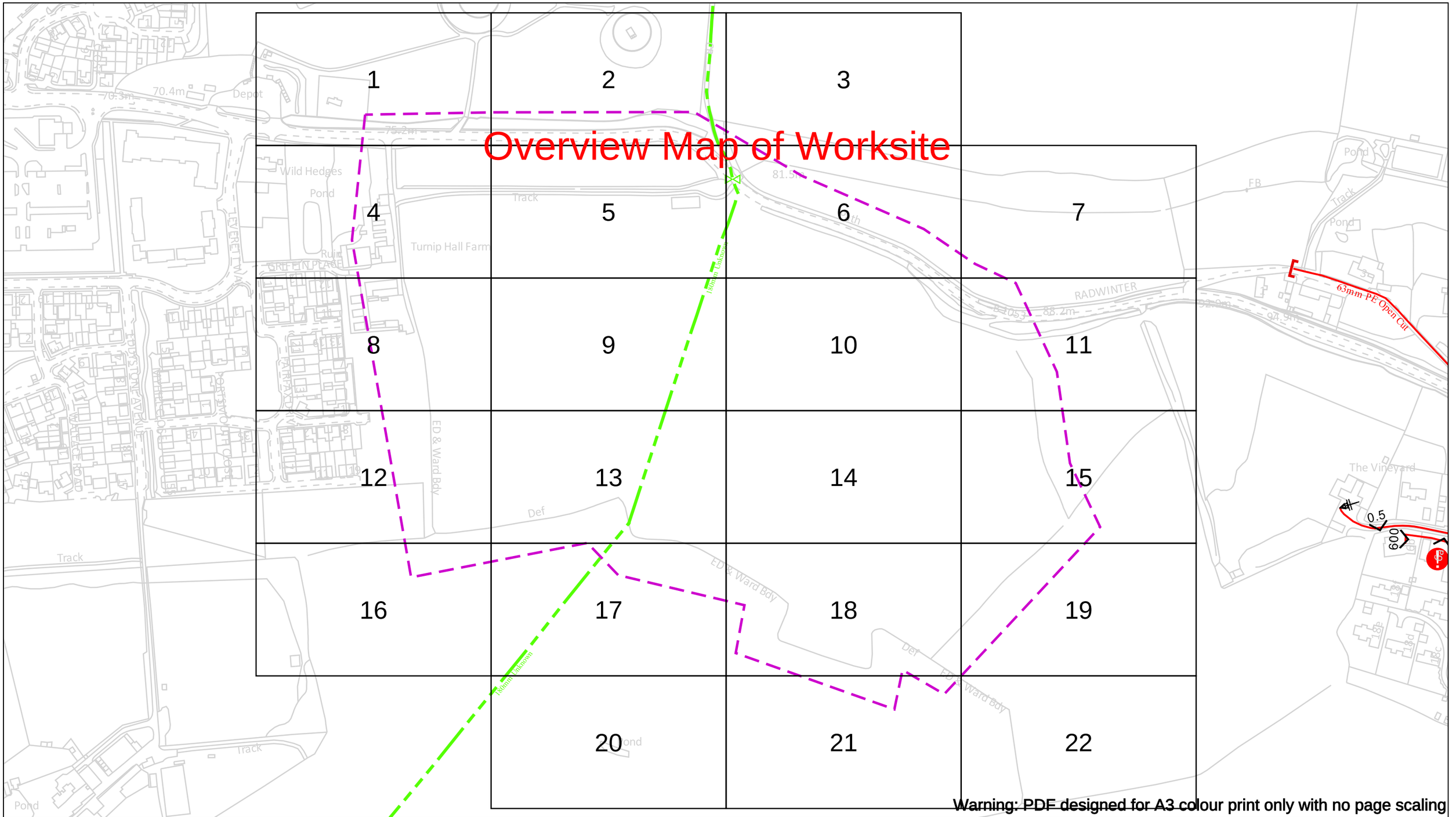
This letter does not constitute any formal agreement or consent for any proposed development work either generally or related to Cadent's easements or other rights, or any planning or building regulations applications.

Cadent Gas Ltd 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.

Kind Regards,
Plant Protection Team
T: 0800 688 588
plantprotection@cadentgas.com
cadentgas.com



Overview Map of Worksite



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In case of an emergency call 0800 111 999

Date Requested: 17/04/2024
Job Reference: 33129444
Site Location: 555774 238156
Requested by:
Mr Duncan Phillips
Your Scheme/Reference: 35803

Scale: 1:3075 (When plotted at A3)

IMPORTANT NOTICES

This plan shows these pipes owned by Cadent Gas Limited in its role as a Licensed Gas Transporter (GT). Gas pipes owned by other GT's or otherwise privately owned may be present in this area. Information with regards 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 errors 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.

Dig Sites

Area:

Line:

- LP Mains
- MP Mains
- IP Mains
- LHP Mains
- Valve
- Depth of cover
- Syphon
- Diameter Change
- Material Change
- Out of Standard Service

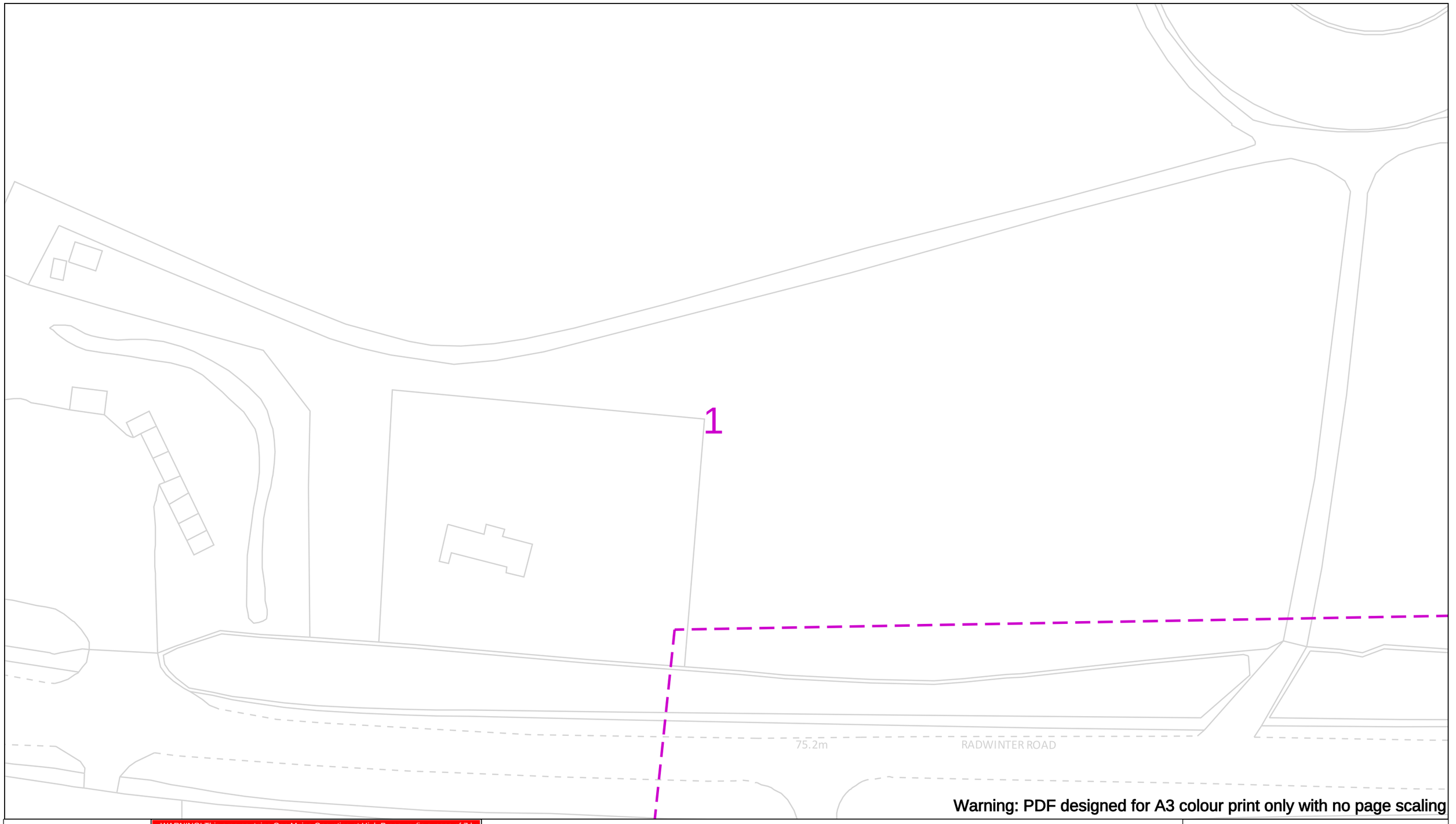
Where an out-of-standard service is present please contact plant protection 0800 688 588 for further information.
Out-of-standard service symbology may be used to indicate one or more of the following:

- Identification of shallow services
- Identification of dual services
- Recording of non-perpendicular services

A perpendicular service/connection is laid in a straight line from the entry point at the property to the connection at the main – this includes a pipe that has a perpendicular connection and is not straight but does not deviate more than 1m off centre line.

Cadent
Your Gas Network

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50m

Dig Sites

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LHP Mains

Valve
Depth of cover
Syphon

Diameter Change
Material Change
Out of Standard Service

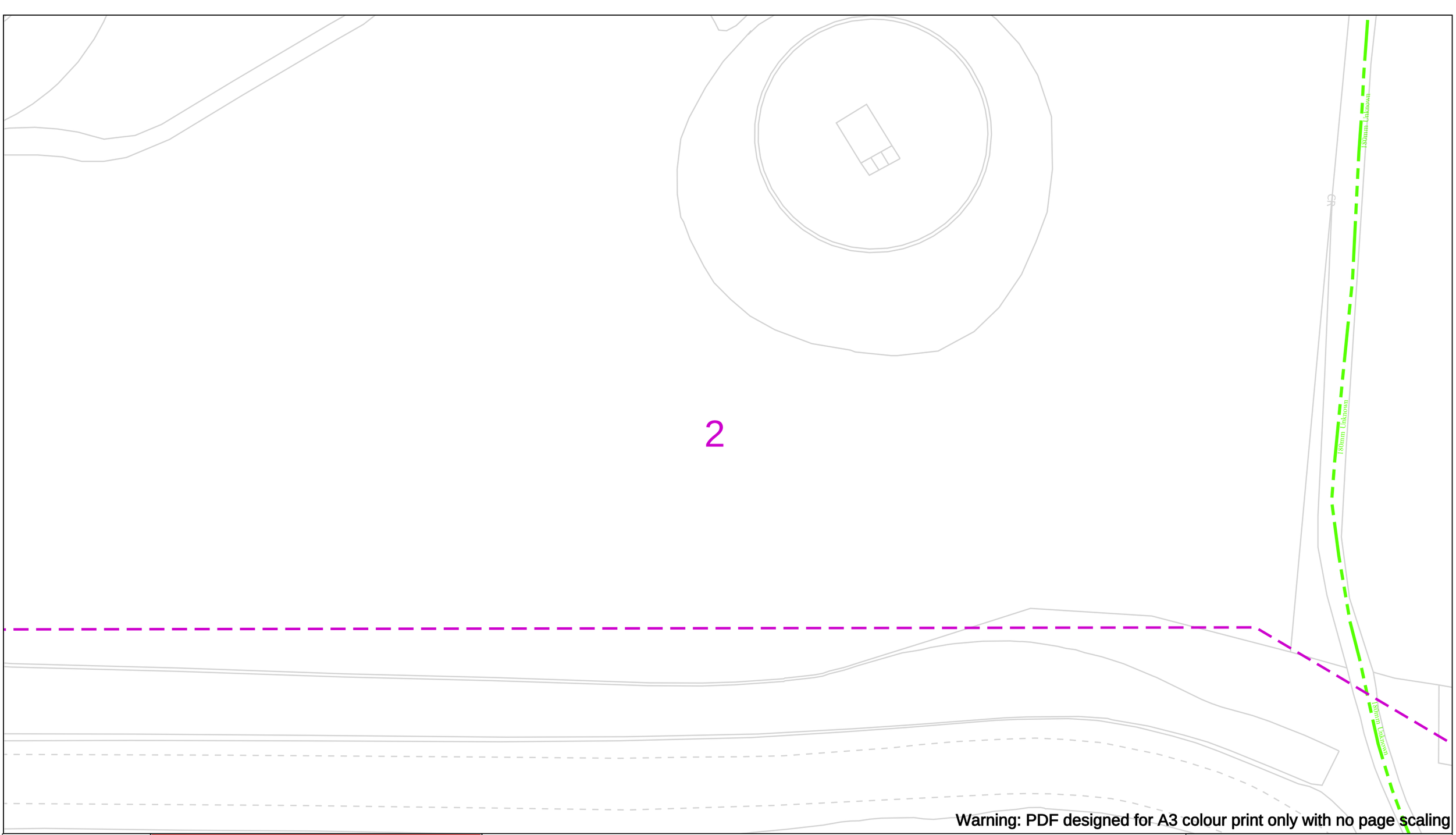
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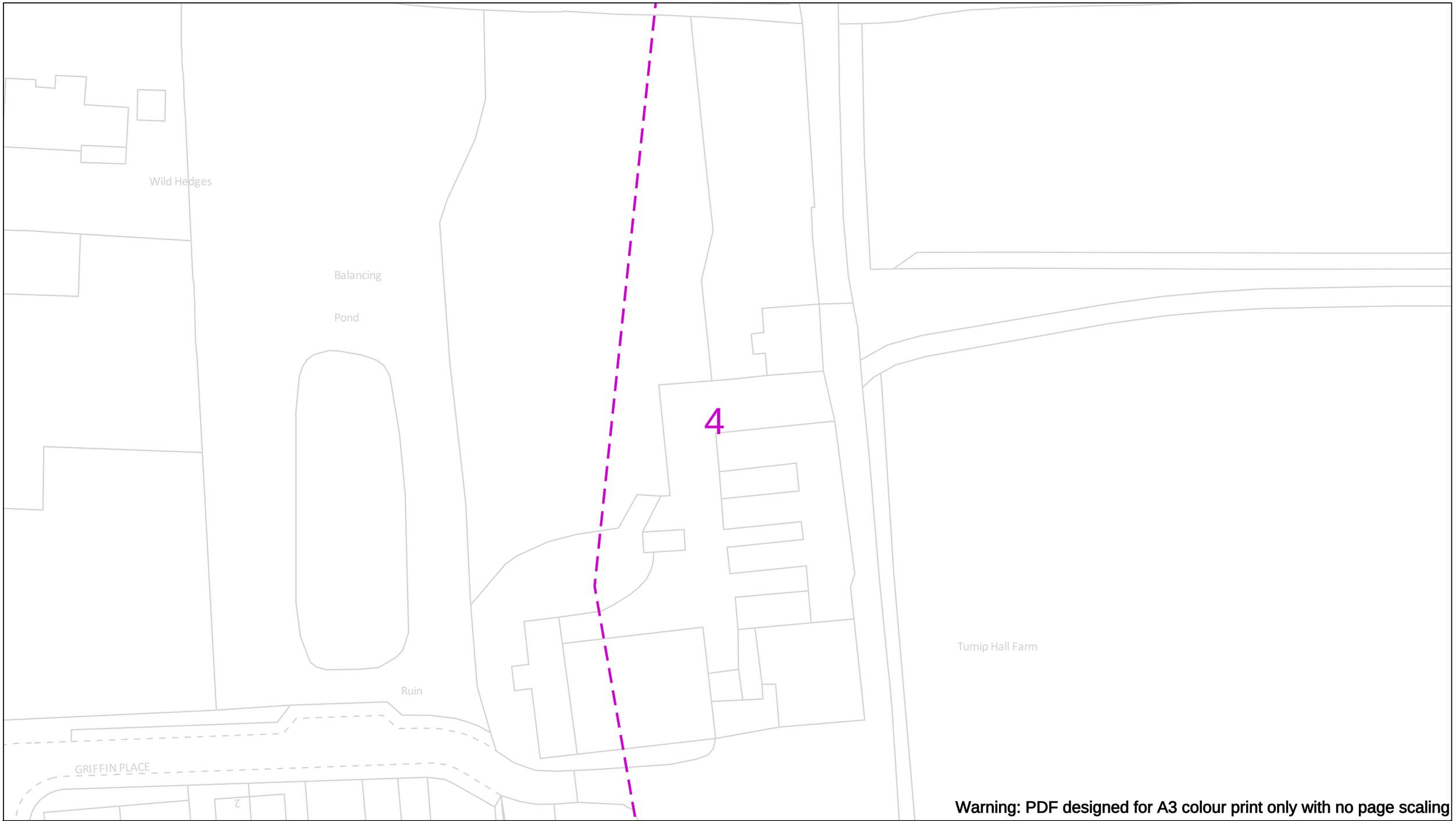
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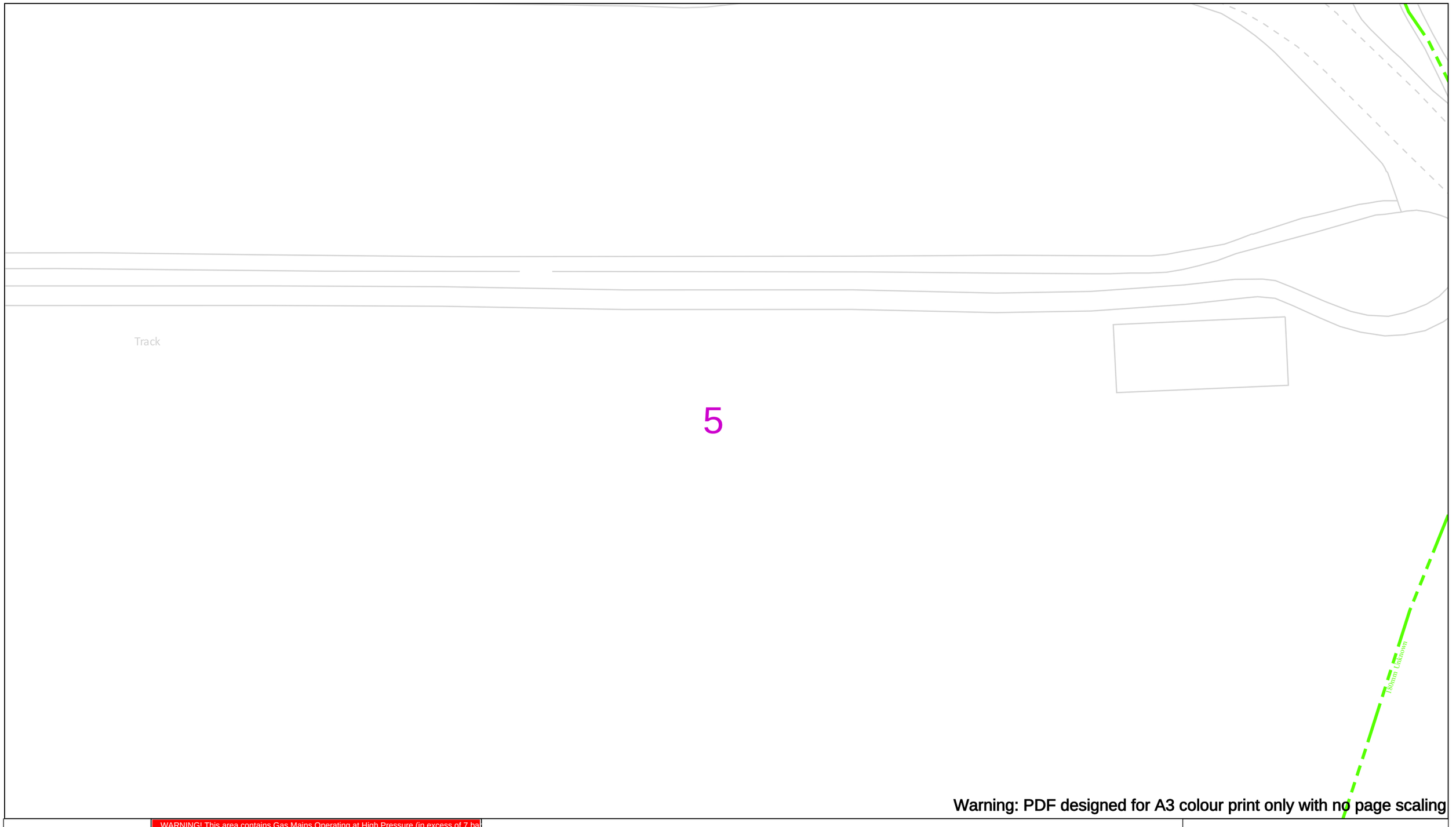
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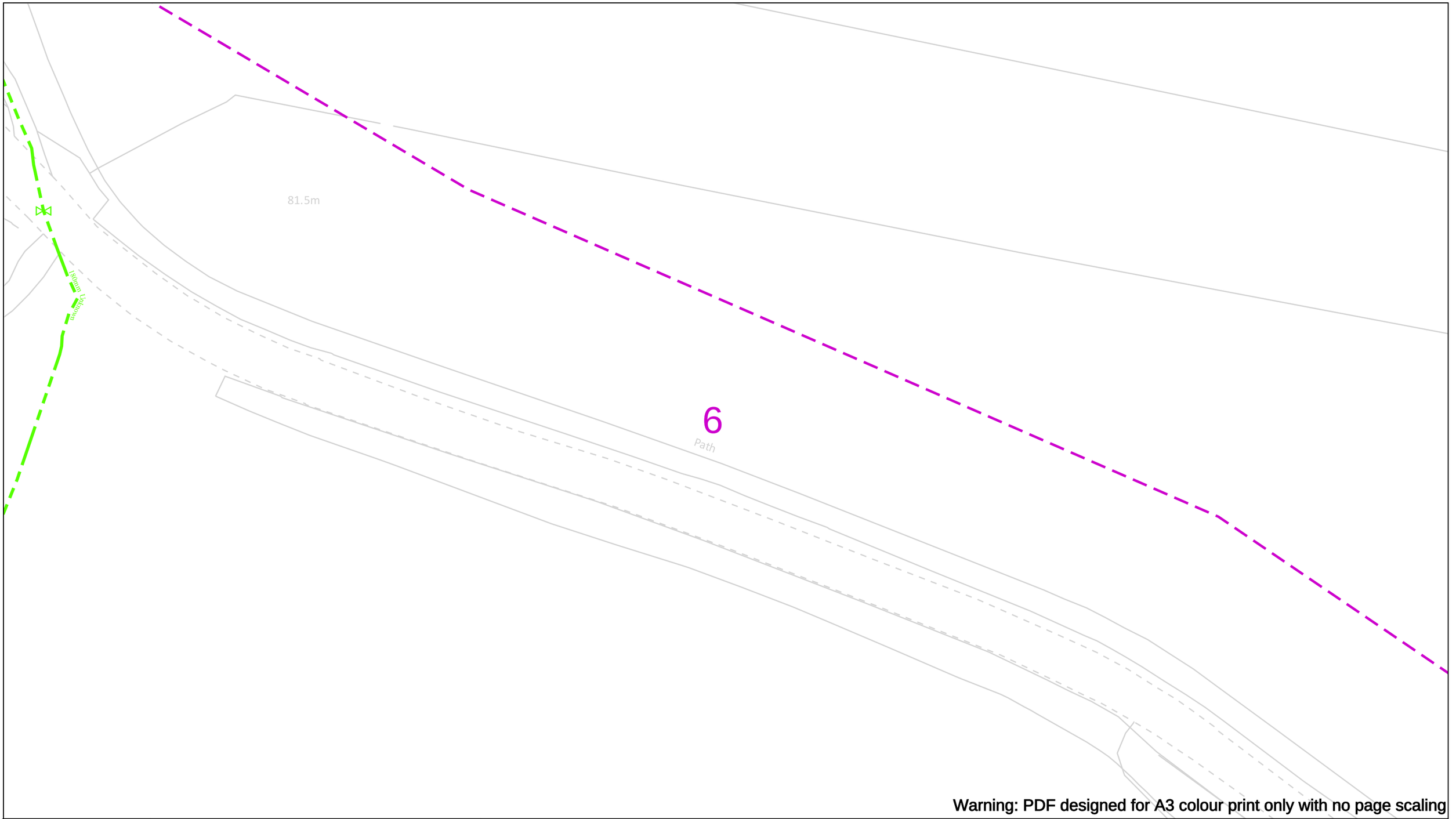
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50m

Dig Sites

Area:

Line:

LP Mains
MP Mains
IP Mains
LHP Mains

Valve
Depth of cover
Syphon

Diameter Change
Material Change
Out of Standard Service

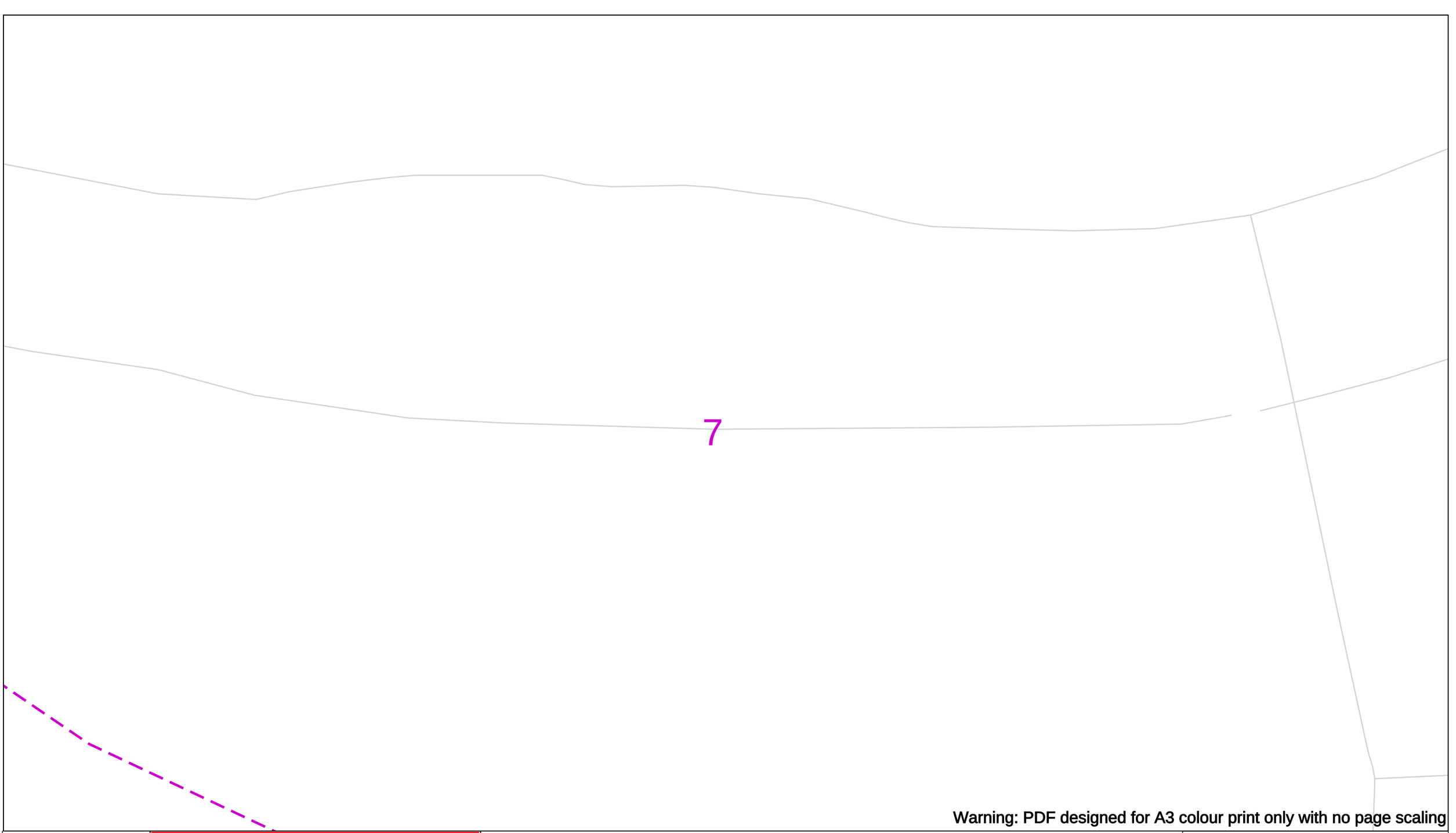
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Date Requested: 17/04/2024
Job Reference: 33129444
Site Location: 555774 238156
Requested by:
Mr Duncan Phillips
Your Scheme/Reference: 35803

Scale: 1:500 (When plotted at A3)

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MP Mains
IP Mains
LHP Mains

Valve
Depth of cover
Syphon

Diameter Change
Material Change
Out of Standard Service

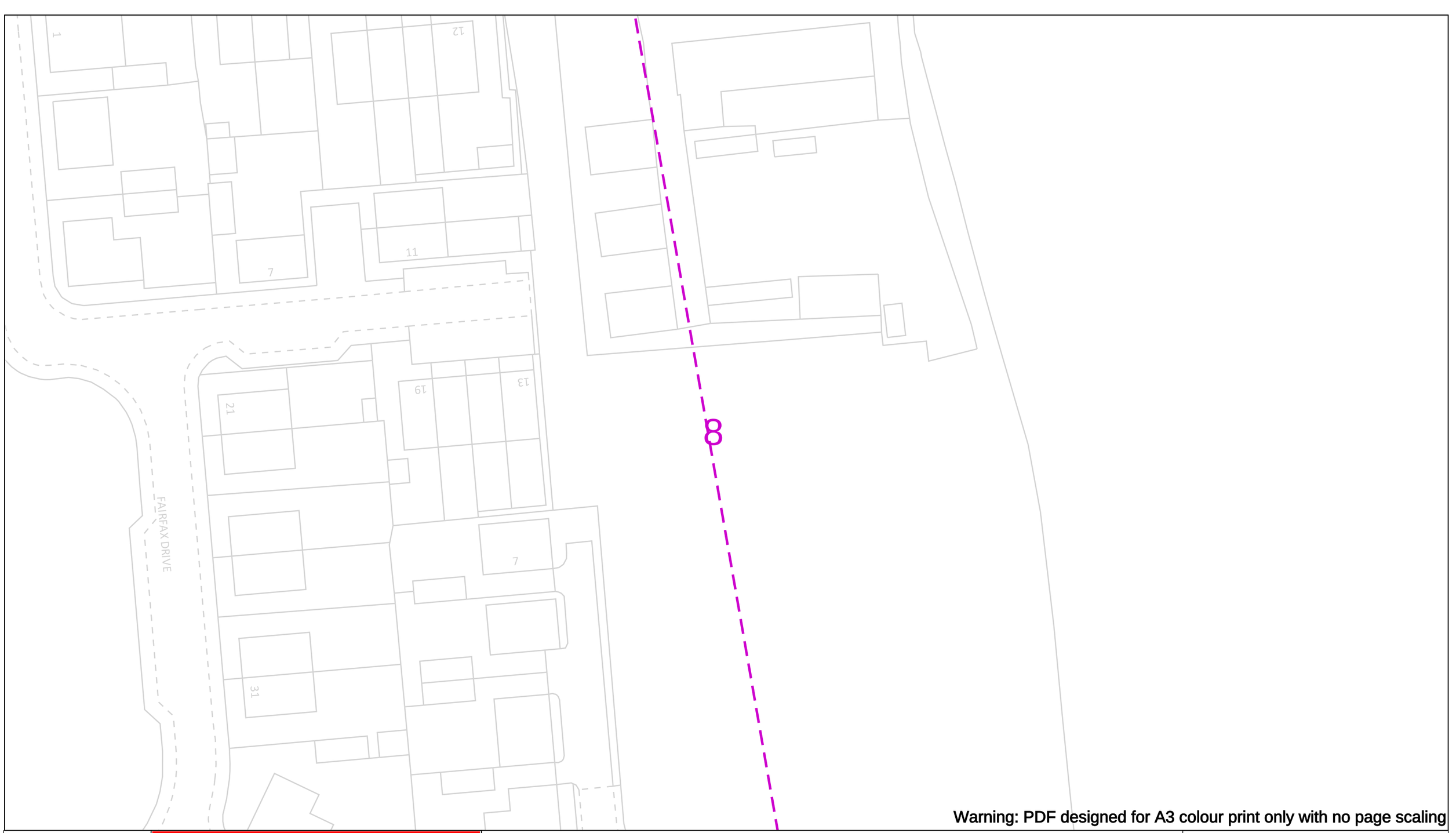
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Valve
Depth of cover
Syphon

Diameter Change
Material Change
Out of Standard Service

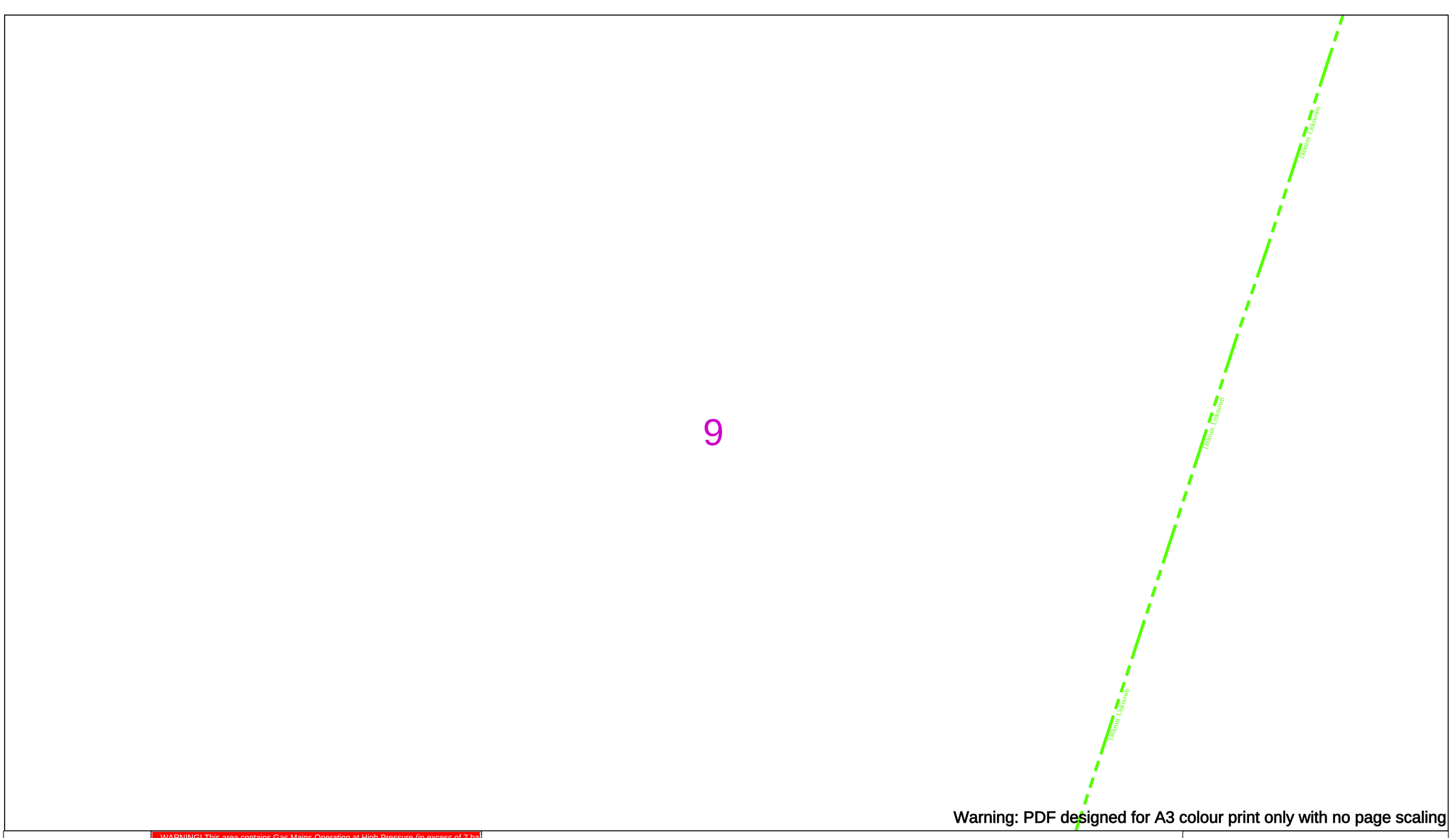
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50m

Dig Sites

Area: Line:

LP Mains
MP Mains
IP Mains
LHP Mains

Valve
Depth of cover
Syphon

Diameter Change
Material Change
Out of Standard Service

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Line:

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MP Mains
IP Mains
LHP Mains

Valve
Depth of cover
Syphon

Diameter Change
Material Change
Out of Standard Service

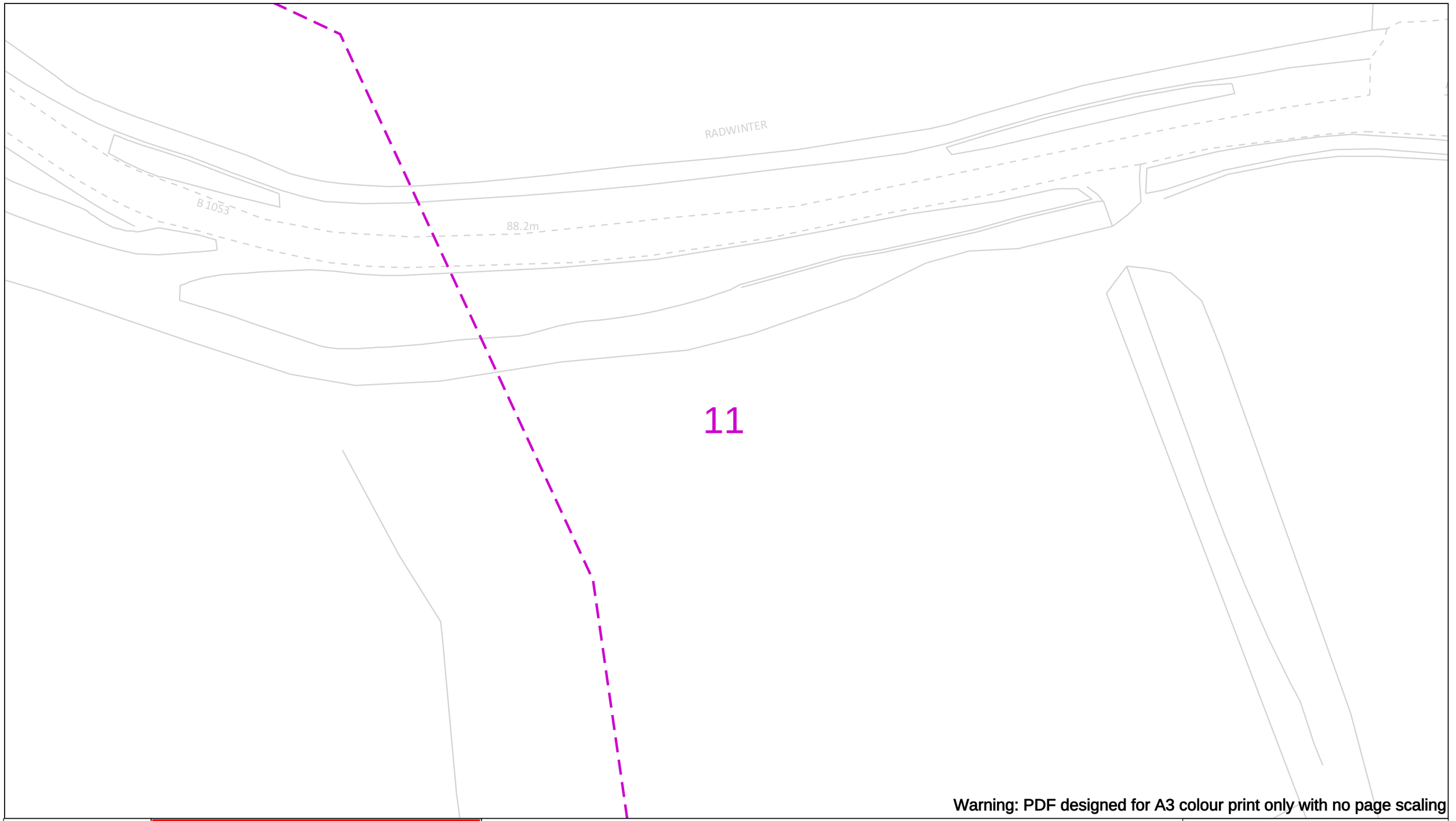
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Valve
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Diameter Change
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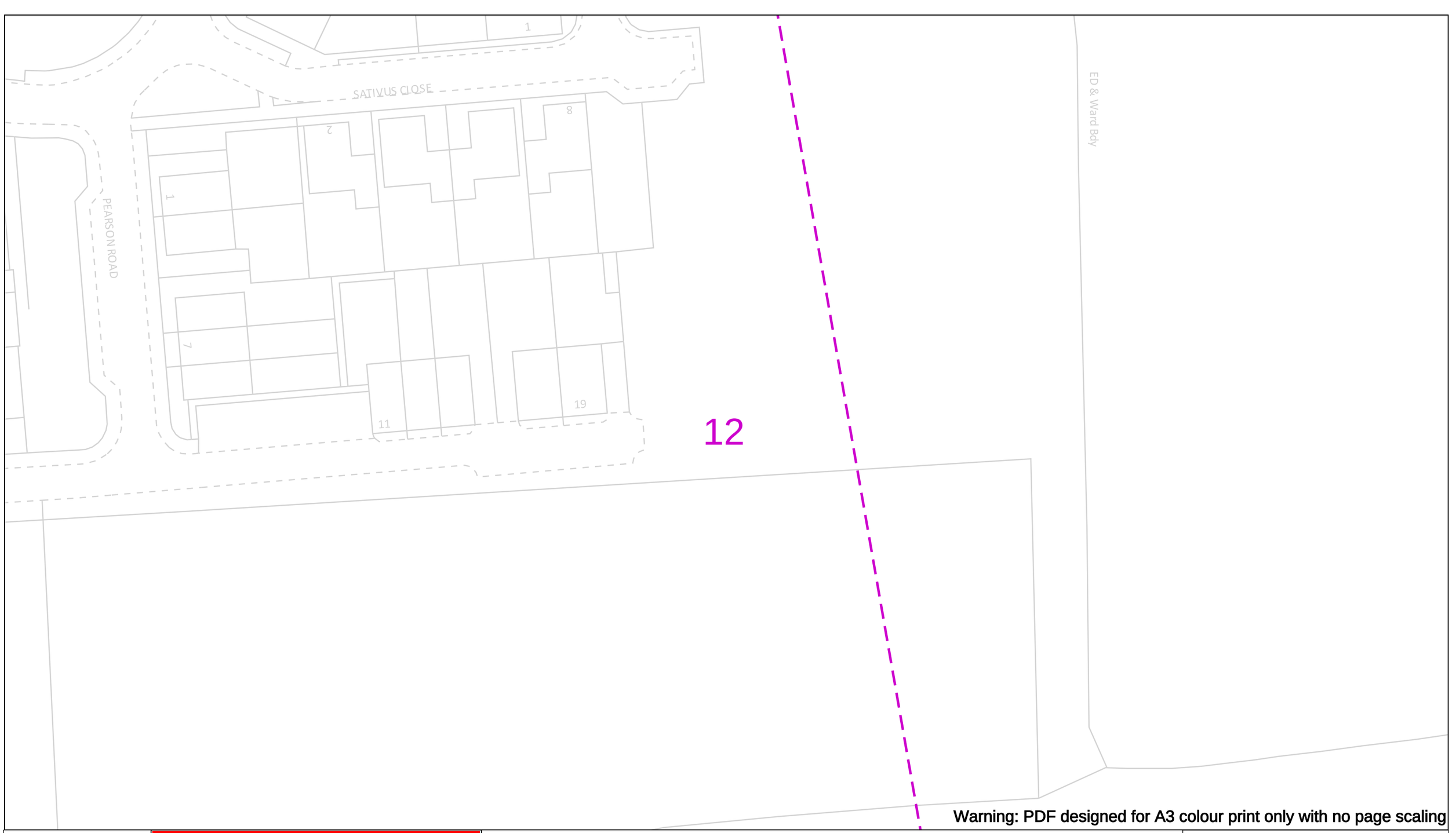
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Diameter Change
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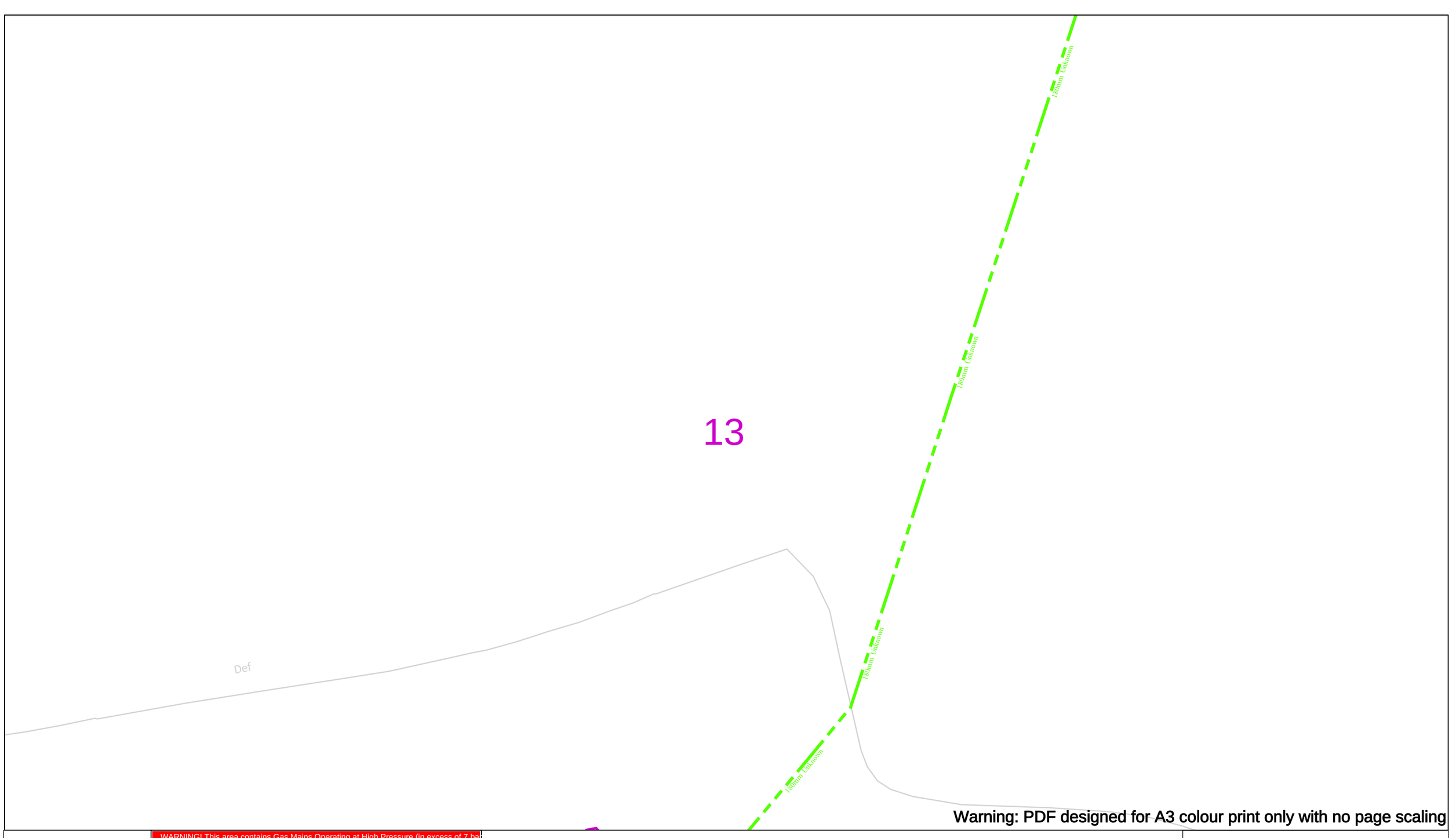
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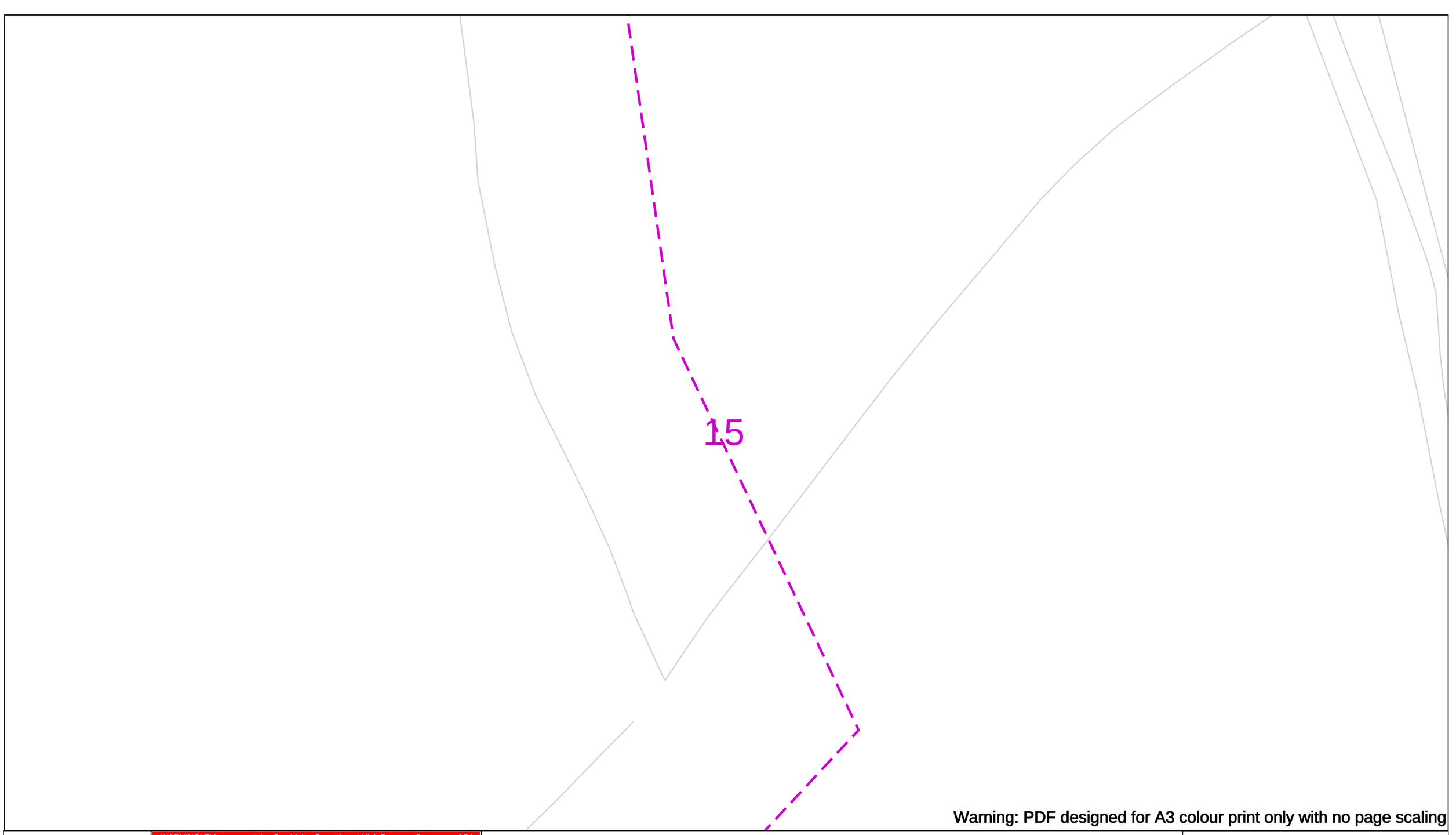
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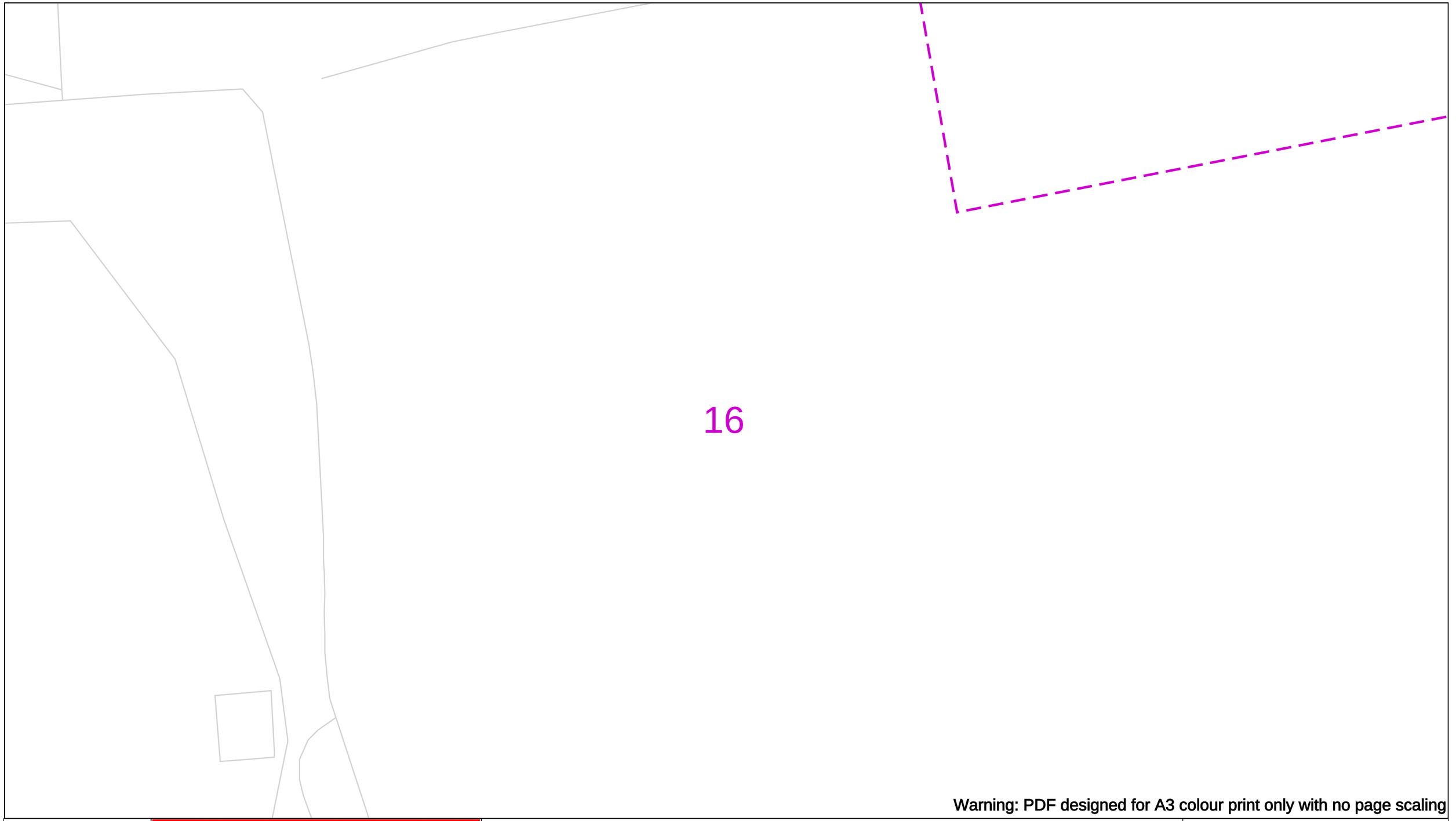
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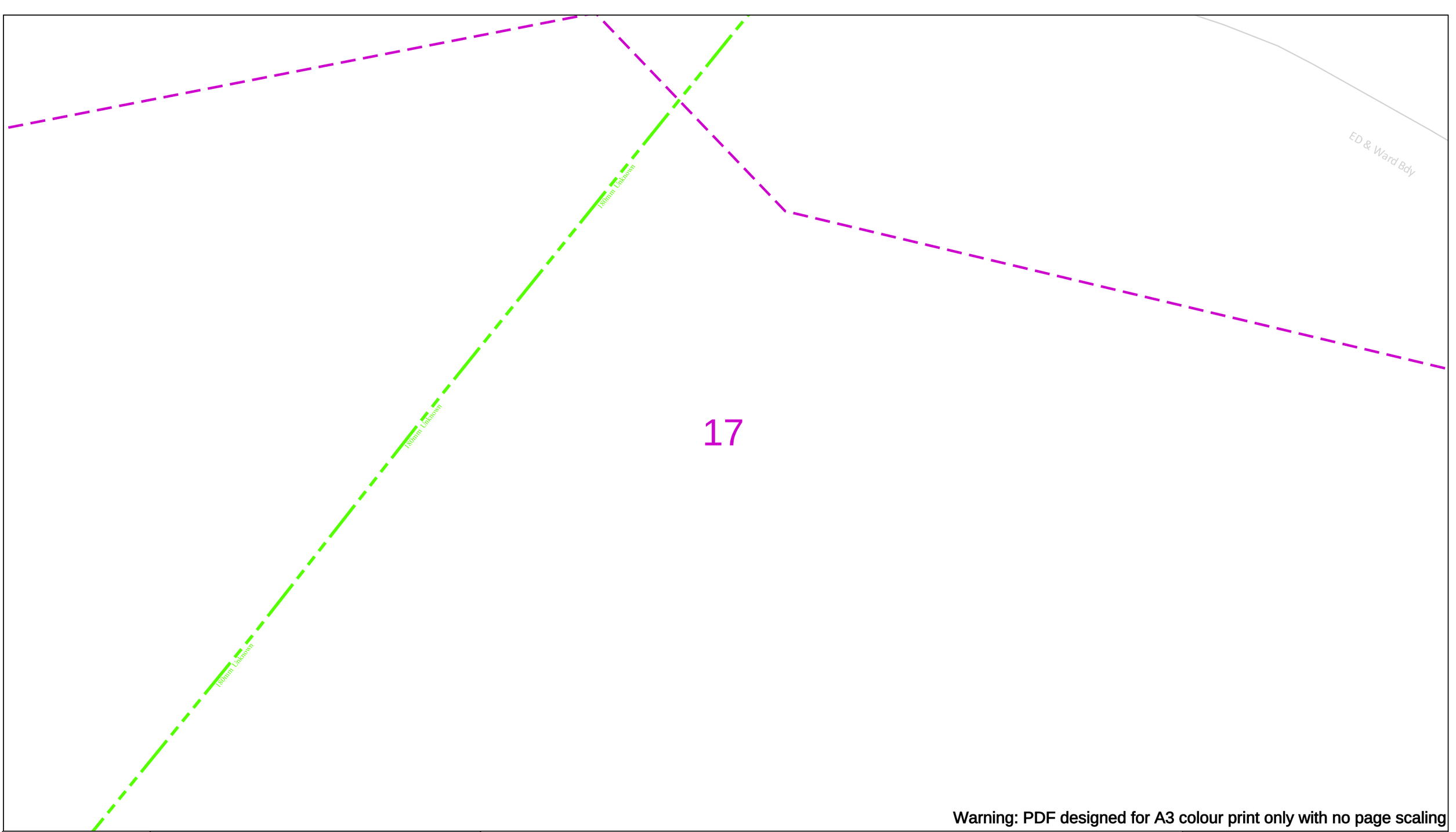
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50m

Dig Sites

Area:

Line:

LP Mains
MP Mains
IP Mains
LHP Mains

Valve
Depth of cover
Syphon

Diameter Change
Material Change
Out of Standard Service

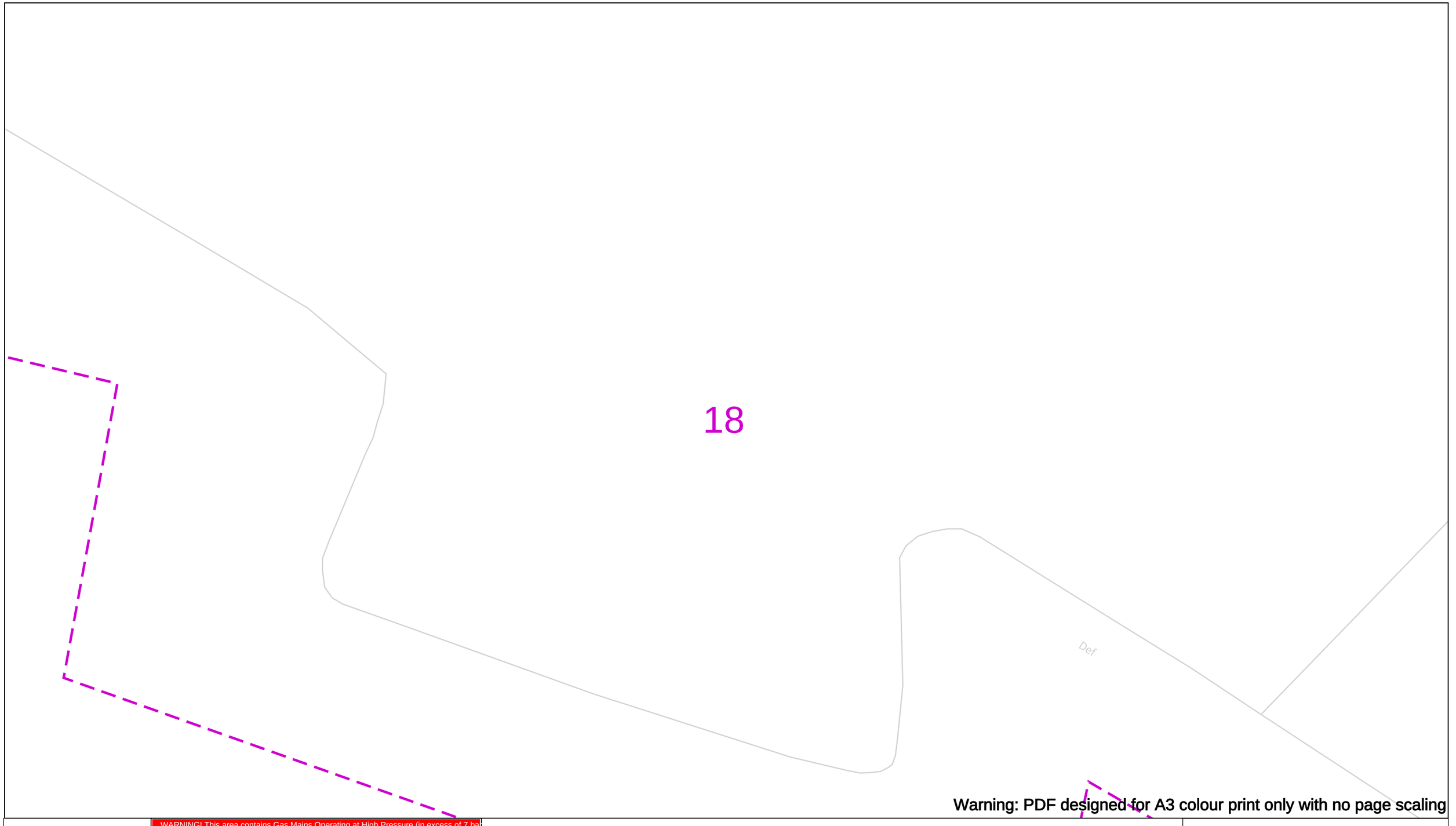
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- Identification of dual services
- Recording of non-perpendicular services

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Your Gas Network

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In case of an emergency call 0800 111 999

Date Requested: 17/04/2024
Job Reference: 33129444
Site Location: 555774 238156
Requested by:
Mr Duncan Phillips
Your Scheme/Reference: 35803

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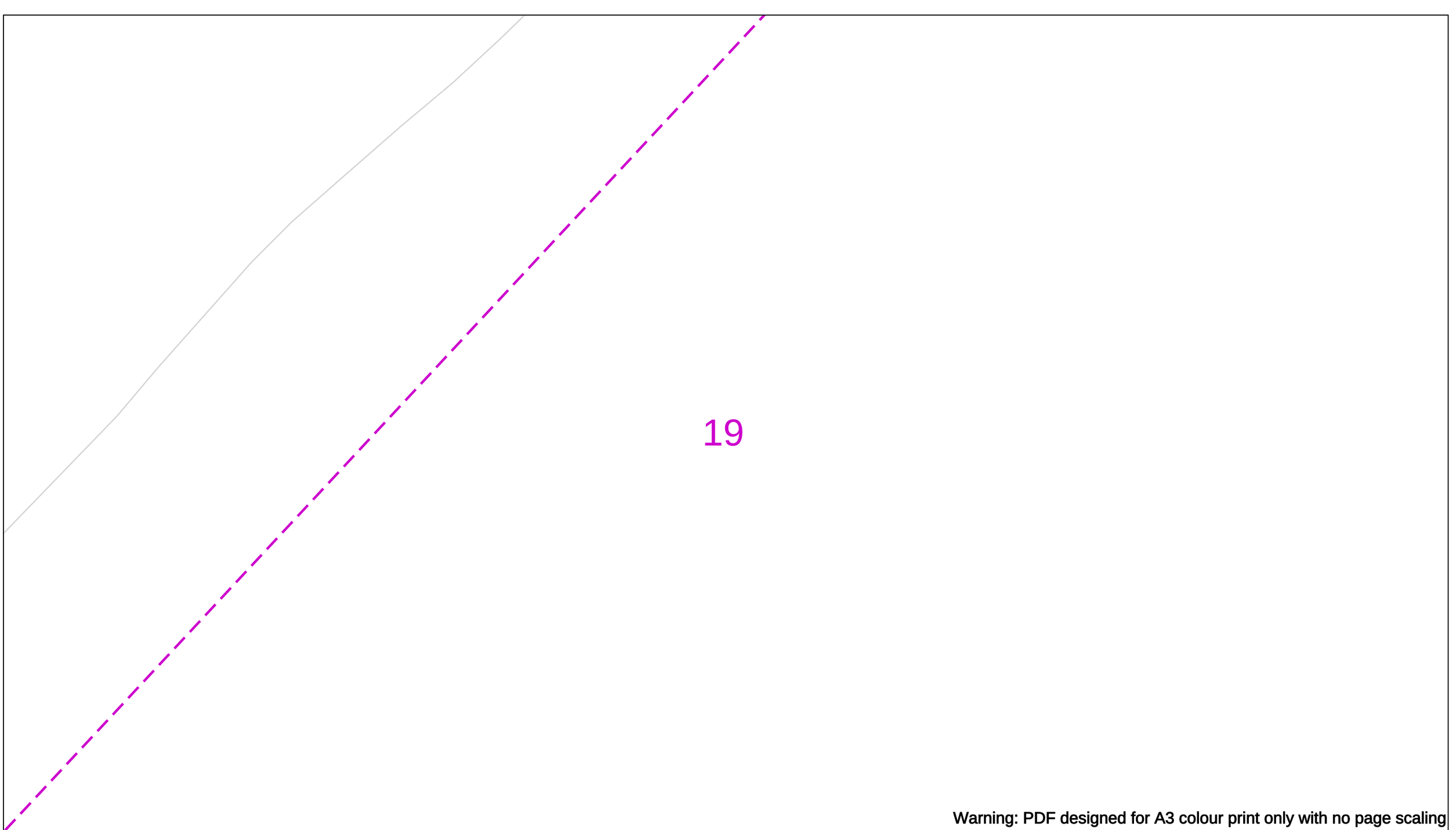
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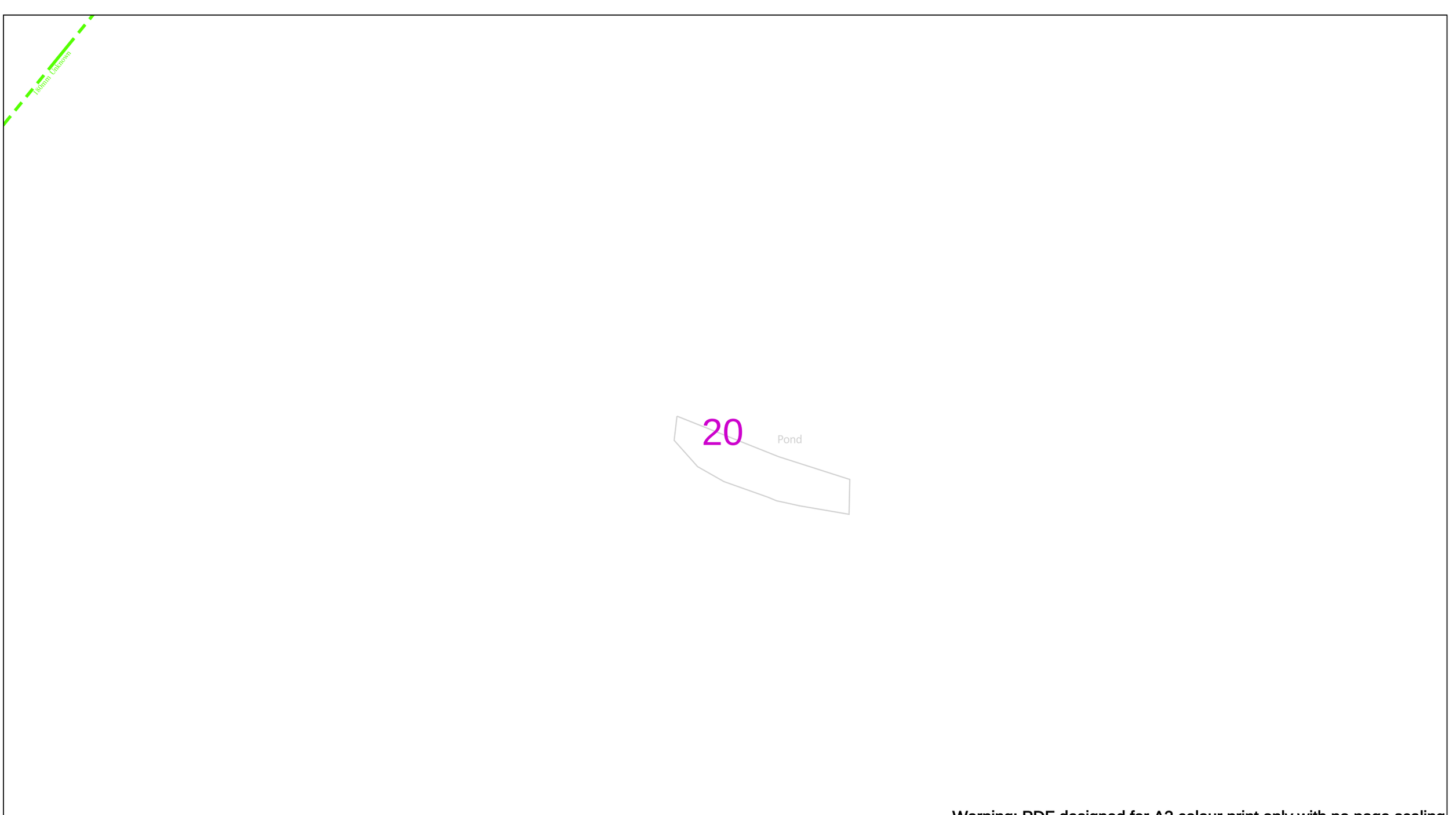
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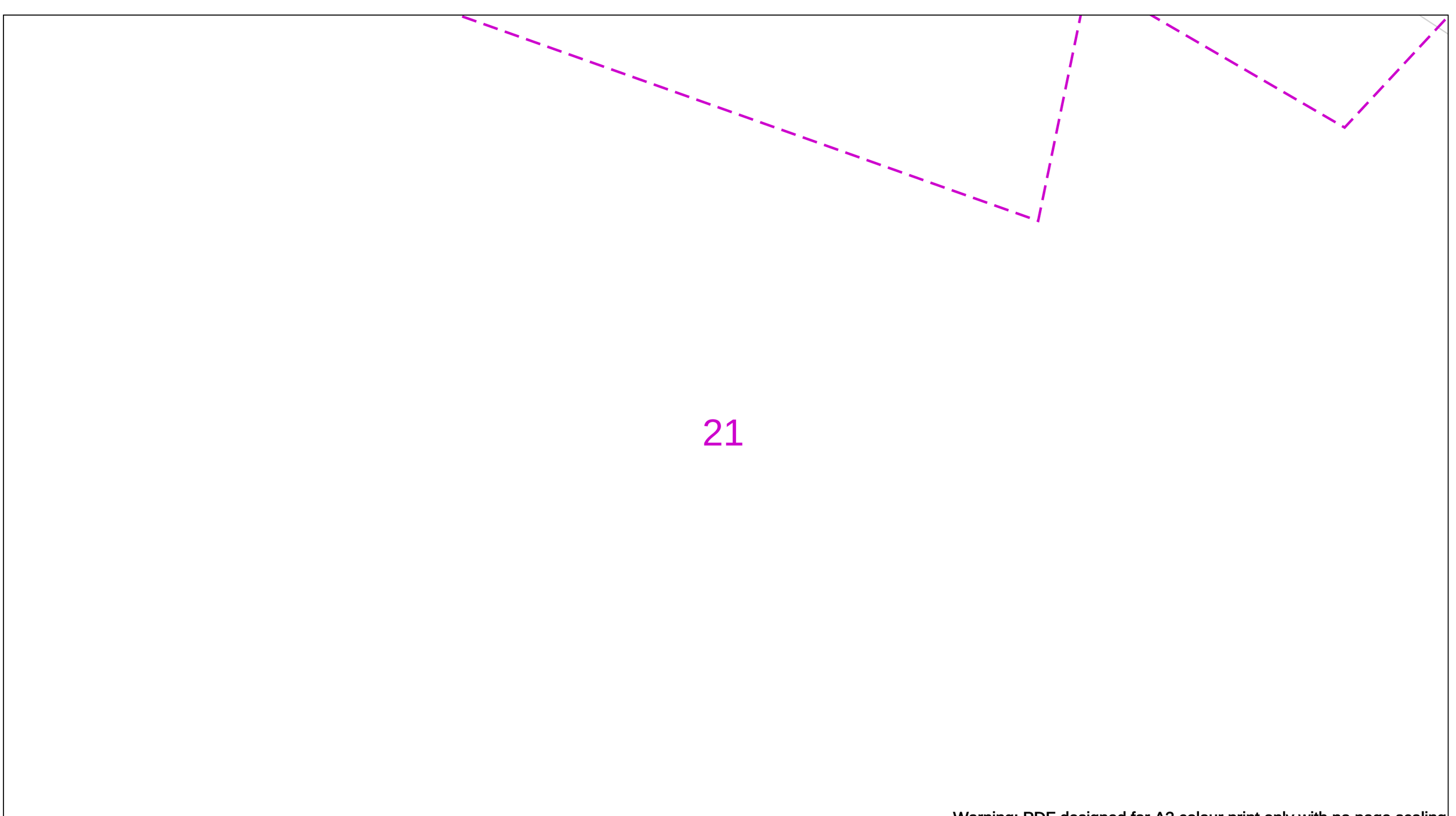
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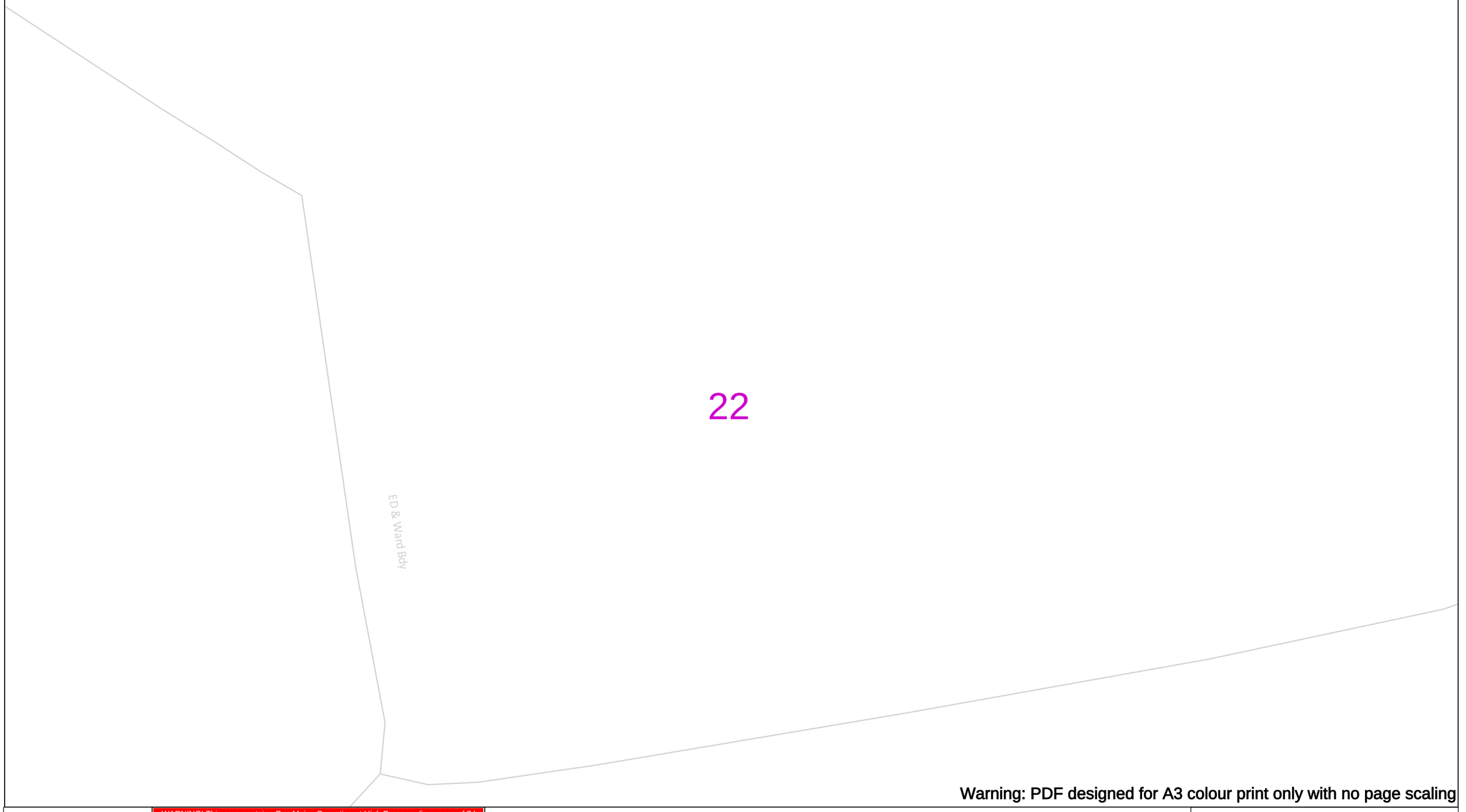
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Specification for
Safe Working in the Vicinity of Cadent Assets

CAD/SP/SSW/22
August 2021



Cadent
Your Gas Network

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Cadent contact details



Central admin team
Address: Cadent, Brick Kiln Street, Hinckley, Leicestershire, LE10 0NA
Phone: 0800 688 588
Email: plantprotection@cadentgas.com

East of England Operations Plant Protection
Address: Cadent Gas Limited, Vicarage Farm Road, Peterborough, PE1 5TP
Email: eaplantprotectionops@cadentgas.com

East Midlands Operations Plant Protection
Address: Cadent Gas Limited, Effingham Street, Sheffield, S4 7YP
Email: emplantprotectionops@cadentgas.com

North London Operations Plant Protection
Address: Cadent Gas Limited, Uxbridge Road, Slough, SL2 5NA
Email: nlplantprotection@cadentgas.com

North West Operations Plant Protection
Address: Cadent Gas Limited, Plant Protection (Block C), Mersey Road North, Failsworth, Greater Manchester, M35 9FF
Email: plantprotection.nw@cadentgas.com

West Midlands Operations Plant Protection
Address: Cadent Gas Limited, Windsor Street, Birmingham, B7 4DN
Email: plantprotection.wm@cadentgas.com

Step by Step Process

Register with LinesearchbeforeUdig (LSBUD)

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

www.linesearchbeforeudig.co.uk

Submit an enquiry

Within LSBUD there are 3 enquiry types, initial enquiry, planned works and emergency works. Initial enquires are for information only purposes and will not be escalated for operational site-specific advice, should you wish to carry out works you must submit a planned works enquiry. If your works are of a genuine emergency nature (e.g. burst water main etc.) then you should submit an emergency enquiry.

Review the response, asset location and enclosed guidance

LSBUD will auto-generate a response based on your enquiry details and our assets in the area. The assessment will be based on the selected Work Category and Work Type, if your planned works propose activities to be undertaken within the distances specified within this booklet you must obtain site specific advice from our specialist operational plant protection team.

If your response says that we need to assess your enquiry further, you must not start any work until we confirm it is safe to do so.

If you are advised to proceed with caution, then you must ensure that you utilise the provided asset plans and follow the guidance in this document.

Observe restrictions

In addition to the guidance contained in this booklet, you must ensure that you observe any site-specific advice provided by our specialist operational plant protection teams.

If in doubt contact Cadent using the details in this booklet

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



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.

Users should ensure that they are in possession of the latest edition of this document by referring to the Digging Safely webpage on the Cadent website.
www.cadentgas.com/help-advice/digging-safely

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.

Introduction
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 leading to potentially serious hazardous consequences for individuals located in the vicinity.

It is therefore essential that the safety advice outlined in this document, along with any site-specific advice given by our operatives, is complied with when working near to our assets. If Cadent consider any work to be in breach of the requirements stipulated in this document, then the Cadent Plant Protection Officer will request that work is suspended until the non-compliances have been rectified.

Every reasonable precaution shall be undertaken to avoid personal injury or damage to our apparatus. If we incur any direct or indirect costs as a consequence of your works and we are required to repair or divert any gas apparatus, you'll be recharged in full.

Any damage to our apparatus will be subject to legislative reporting responsibilities to the HSE under Reporting of Injuries, Diseases & Dangerous Occurrences Regulations 2013, Gas Safety Management Regulations 1996 and the Pipelines Safety Regulations 1996.

The requirements in this document are in line with 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. Reference shall be made to our apparatus within your site Health and Safety file.

1. Scope

This specification sets out the safety precautions and other conditions associated with working in the vicinity of Cadent assets, located in negotiated easements (see Section 13) and public highways.



Where the guidance in this document cannot be adhered to, then the diversions process shall be followed.

Before contacting our diversions team, you'll need to have your site information and any design proposals available.

Once you have this information, please contact our diversions team diversions@cadentgas.com or on 0330 678 1034.

Visit www.cadentgas.com/diversions for more information.



2. Formal Consent

Cadent's assets are either located in an easement agreed with the landowner at the time of installation, or within the highway. As the required arrangements for working in an easement and working in the highway differ, this section describes the specific requirements for these two areas.

Any documents handed to contractors or other individuals undertaking work (e.g. farmers, local authorities etc.), on site by Cadent, shall be signed for and adhered to by the site. All personnel working on site shall be made aware of the potential hazards of working near gas assets and the actions they should follow in case of an emergency.

2.1 Within an easement

The promoter of any works (see Section 13) within an easement 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 commence in an easement strip until formal written consent has been provided 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.

Where clearance to proceed has been granted directly from the system, for example, if your works only affect low pressure assets (operating at less than 75 mbar), but the asset concerned is within an easement, the promoter of the works shall contact the network Plant Protection Office for formal written consent.

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

The width of an easement is dependent on a number of factors and is mainly dependent on the operating pressure, pipeline material and diameter as these factors influence safe working requirements and building proximity distances. Easement details should be registered at Land Registry however if you are unsure please liaise with your network Plant Protection Officer.

Below is a list of our standard easement widths, however, some easements may vary:

Pressure tier/ Material	Diameter	Easement Width (total)
HP Steel	900mm, 1060mm, 1200mm (36", 42", 48")	24.4m (80')
HP Steel	750mm and 600mm (30" & 24")	18.3m (60')
HP Steel	Up to and including 450mm (18")	12.2m (40')
HP RTP	Determined on a case by case basis	
IP Steel	All sizes	6m plus pipe diameter
IP PE > 5.5 bar	Above 500mm (19") 356mm to 500mm 126mm to 365mm Up to and including 125mm	30m plus pipe diameter 16m plus pipe diameter 12m plus pipe diameter 12m plus pipe diameter
IP PE <5.5 bar	Above 500mm (19") 356mm to 500mm 126mm to 365mm Up to and including 125mm	26m plus pipe diameter 8m plus pipe diameter 8m plus pipe diameter 8m plus pipe diameter
AGI's	All sites	3m restrictive width around the installation
MP PE	Above 500mm (19") 356mm to 500mm 126mm to 355mm Up to and including 125mm	12m plus pipe diameter 6m plus pipe diameter 5m plus pipe diameter 4.5m plus pipe diameter
MP Steel	All sizes	6m plus pipe diameter
MP Iron*	All sizes	6m plus pipe diameter
LP	Above 125mm Up to and including 125mm	3m plus pipe diameter 1m plus pipe diameter

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 several 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. Location of Gas Assets

A copy of our plans with your marked-out site is provided in our LSBUD response. Cadent asset records shall be consulted to establish the indicative location of the gas assets in relation to the promoter's work area.

If the marked-out area is incorrect you MUST resubmit your enquiry with the correct area marked out.



Prior to work commencing on site, the gas assets should be located to verify the indicative location from plans.

This should initially be carried out through non-intrusive methods utilising pipe locators where possible. The indicative location should be verified through trial holes. 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.

For assets exceeding 2 bar, the excavation of all trial holes shall be monitored by Cadent. For assets not exceeding 2 bar, monitoring will be at the discretion of the Cadent Plant Protection Officer.

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

We utilise marker posts and surface boxes to denote the location of our apparatus providing access to key parts of our network. Free access shall be maintained to such apparatus during and after your works and these shall not be moved, covered or damaged during the works.



Low Pressure

Medium Pressure

Intermediate Pressure

High Pressure

4. 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 a Cadent asset without the prior written consent of Cadent. Cadent will need to approve the material, dimensions and method of installation for 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 protection is to be installed over an 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 installed. 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 protection is not permitted, however, can be approved at Cadent's discretion.

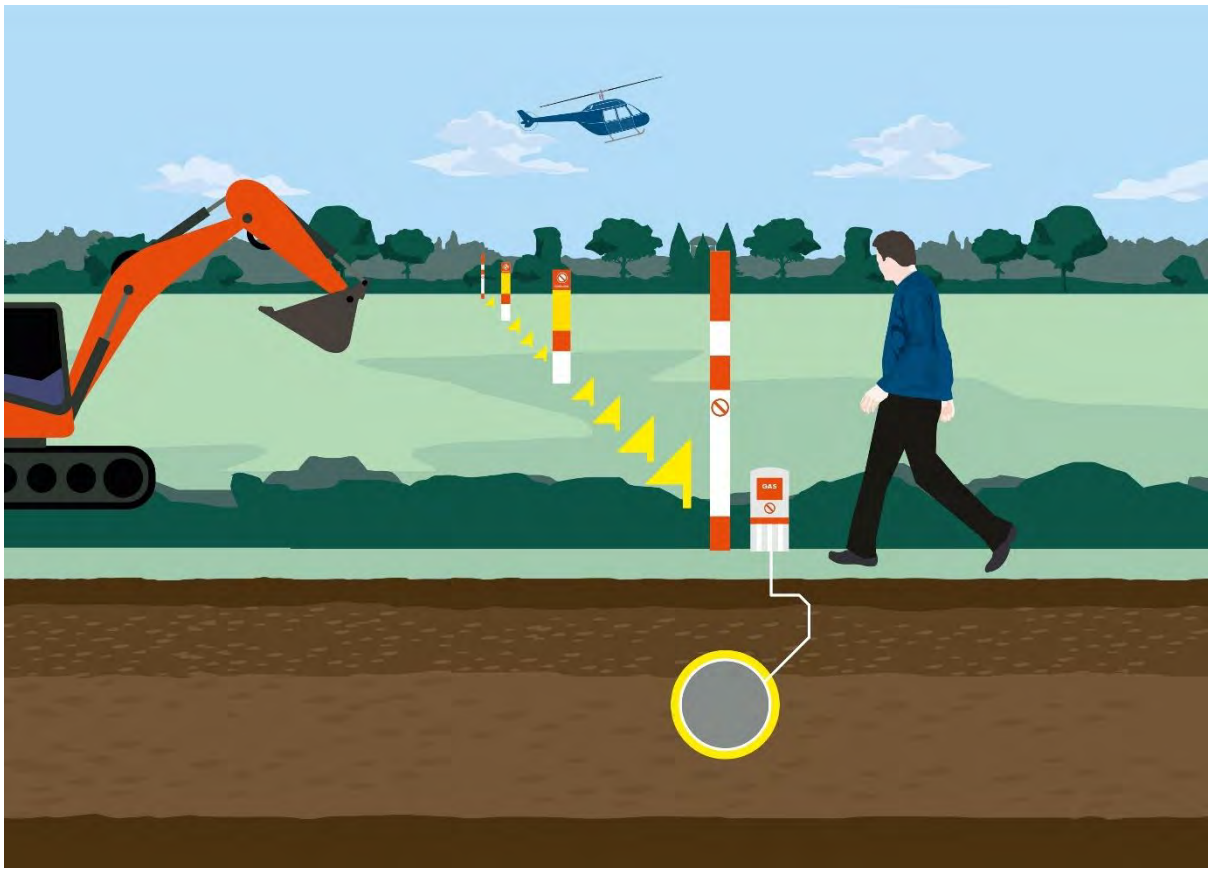
The safety precautions detailed in Sections 5, 6, 7 or 8 of this document should also be observed during the installation of the asset protection.



5. Working in the Vicinity of a High or Intermediate Pressure Gas Asset (Operating at Pressures Greater than 2 bar)

The below information shall only be used as guidance, for all works in the vicinity of High and Intermediate Pressure Pipelines the auto-response from the system will advise not to carry out any works until we have undertaken a technical review of the planned works and provided site specific safe working advice.

Initial enquires are for information only purposes and will not be escalated for operational site-specific advice, should you wish to carry out works you must submit a planned works enquiry for assessment.



5.1 Excavation

Mechanical excavators should not be sited or moved above an asset.

Mechanical excavators, and any other powered mechanical plant, shall not dig on one side of the asset with the cab of the excavator positioned on the other side.

All traffic should be positioned far enough away from the trench to prevent trench wall collapse.

5.1.1 In proximity to an asset in an easement

Following location and marking of assets in agreement with the Cadent Plant Protection Officer, powered mechanical excavation may be used no closer than 3m (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 an 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 Plant Protection Officer 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 250mm, 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 an asset should be the same as that prior to work commencing, unless otherwise agreed by Cadent.

No new service shall be laid parallel to an 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 600mm.

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

5.1.2 In proximity to an asset in the highway

Following locating and marking of assets in agreement with the Cadent Plant Protection Officer, 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.

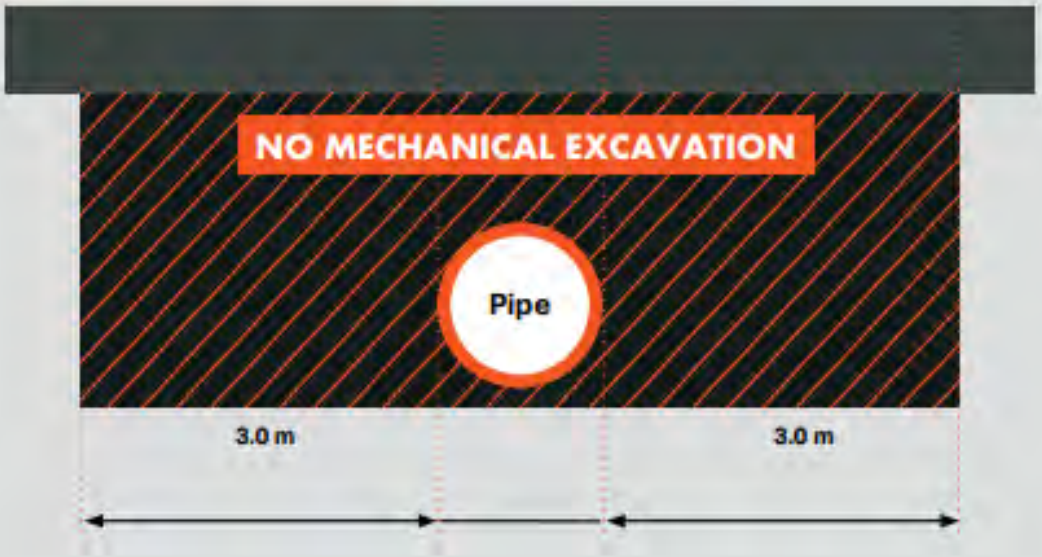
Any fitting, attachment or connecting pipework shall be exposed by hand.

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 300mm, unless any attachments or projections are present on an asset (e.g. valve spindles, pressure points etc.). The use of chain trenchers is not permitted within 3m of an asset. The Cadent Plant Protection Officer may need to be present to monitor this work. Where the bituminous or concrete highway surface layer extends below 300mm 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 Plant Protection Officer and only whilst they remain on site.

Figure 1. Excavation restrictions



5.1.3 Crossing over an asset (Open cut)

Where a new service is to cross over an asset, a clearance distance of 600mm 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 5.1.4).

In special circumstances, this distance may be reduced at the discretion of the Cadent Plant Protection Officer on site.

5.1.4 Crossing below an asset (Open cut)

Where a service is to cross below an asset, a clearance distance of 600mm between the crown of the new service and underside of the asset shall be maintained. Where lengths of pipe greater than one metre are to be exposed, the Cadent Plant Protection Officer shall be consulted. Exposed assets 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 Plant Protection Officer on site.

5.1.5 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 shall undertake tests to determine whether the new service is interfering with the cathodic protection of Cadent assets.

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.

5.1.6 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 commencing.

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 assets. The costs for any stray current mitigation systems required will be borne by the promoter of the works.

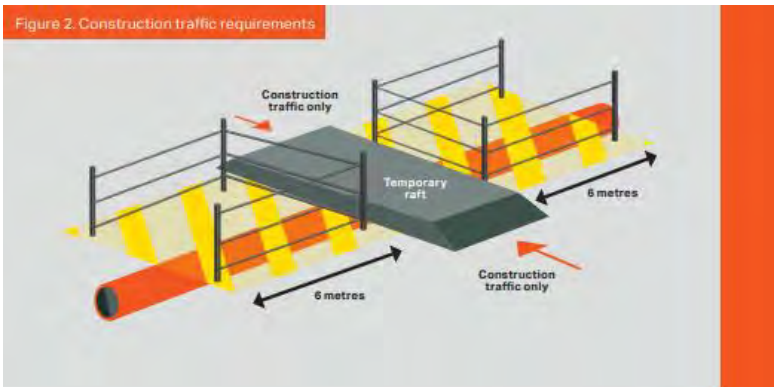
5.2 Construction traffic

Where existing roads cannot be used, construction traffic shall only cross an asset at locations agreed with the Cadent Plant Protection Officer. Notices shall be placed directing traffic to the crossing points. Post and wire fencing shall be erected at all crossing points, and 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).

Assets shall be protected at all crossing points by a suitable method agreed with the Cadent Plant Protection Officer prior to installation. The promoter of the works shall review ground conditions, vehicle types and crossing frequencies to determine the type and construction of the protection required.

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

Figure 2. Construction traffic requirements



5.3 Specific activities

This section details the precautions that need to be taken when carrying out certain prescribed activities in the vicinity of an 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 below shows, for some specific activities, the prescribed distances where the advice of Cadent shall be sought.

Activity	Distance within which Cadent advice shall be sought
Piling	15m
Surface mineral extraction	100m
Landfilling	100m
Demolition	150m or 400m for structure mass > 10,000 tonnes
Blasting	500m if the MIC is > 200kg 250m if the MIC is > 10kg but ⩽ 200kg 100m if the MIC is ⩽ 10kg
Deep mining	1000m
Wind turbine	1.5 times mast height

5.3.1 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 Plant Protection Officer may wish to be present to monitor this work.

5.3.2 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 Plant Protection Officer.

5.3.3 Piling

No piling shall be allowed within 15m 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 75mm/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 Plant Protection Officer 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.

5.3.4 Demolition

No demolition should be allowed within 150m of an asset, or 400m for a structure mass greater than 10,000t 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 75mm/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 Plant Protection Officer 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.

5.3.5 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:

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

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

5.3.6 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 need 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 100m 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 5.3.5 apply.

5.3.7 Deep mining

Assets within 1km 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.

5.3.8 Landfilling

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

5.3.9 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:

- 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
- the use of sleeving
- 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.

5.3.10 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 75mm/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 Plant Protection Officer on request.

5.3.11 Hot work

Where a Cadent 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 500mm of the gas asset. This may be reduced if suitable protection and precautions have been agreed with the Cadent Plant Protection Officer to prevent against the effects of sparks, radiant heat transfer etc.

The Cadent Plant Protection Officer shall be present to monitor all welding, burning or other 'hot work' that takes place.

5.3.12 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 a gas asset.

Further guidance can be found from UKOPA's Good Practice Guide 13 (UKOPA/GP/013) - Requirements for the Siting and Installation of Wind Turbines Installations in the Vicinity of Buried Pipelines.

5.3.13 Solar farms

Solar Farms can be built adjacent to gas assets but never within an 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.

Further guidance can be found from UKOPA's Good Practice Guide 14 (UKOPA/GP/014) - Requirements for the Siting and Installation of Solar Photovoltaic (PV) Installations in the Vicinity of Buried Pipelines.

5.4 Backfilling

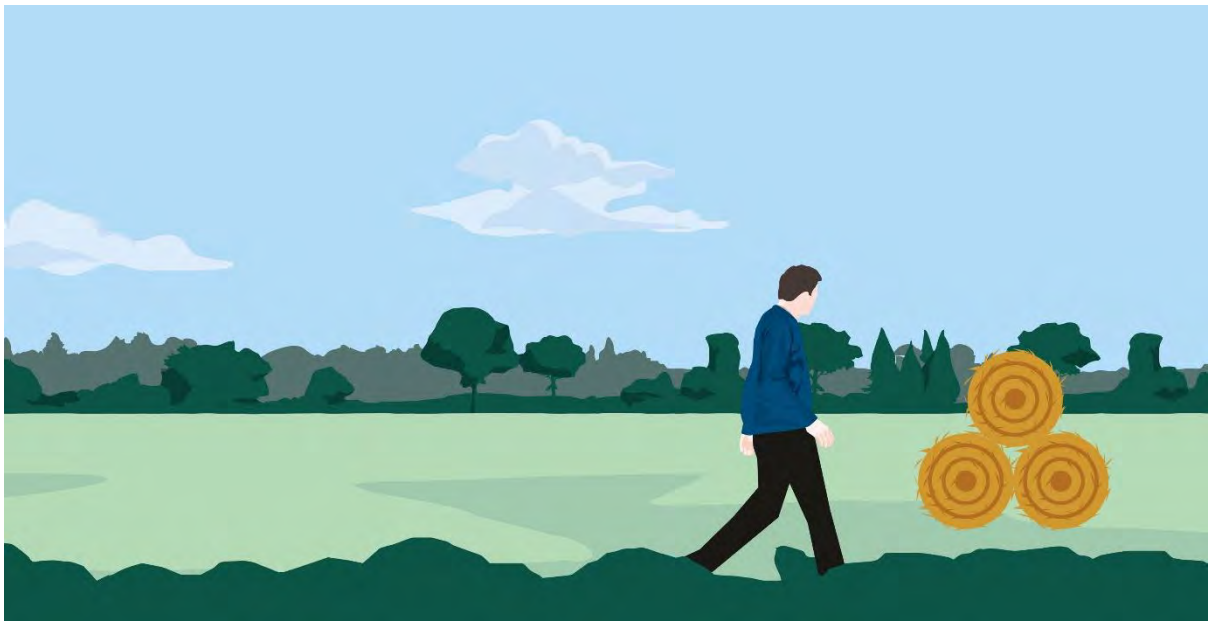
No backfilling should be undertaken without Cadent's agreement to proceed and the Cadent Plant Protection Officer will stipulate the necessary requirements. Some equipment may not be suitable for use over or around an asset due to the adverse effects of excessive compaction and vibration levels. The Cadent Plant Protection Officer 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 an asset
- could influence the ground stability

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

Minor damage to pipe coating and cathodic protection test leads will be repaired by Cadent free of charge. If an asset has been backfilled without the knowledge of the Cadent Plant Protection Officer, the third party shall re-excavate to enable the condition of the asset coating to be assessed.



6. Working in the Vicinity of a Medium Pressure Gas Asset (Operating at Pressures Greater than 75 mbar but not Exceeding 2 bar)

The below information shall only be used as guidance, and where appropriate, will be supplemented by site specific safe working advice from the network Plant Protection Officer.

Initial enquires are for information only purposes and will not be escalated for operational site-specific advice, should you wish to carry out works you must submit a planned works enquiry for assessment.

6.1 Temporary and permanent structures

No temporary or permanent structures are permitted to be installed above, or in close proximity to a gas asset or easement due to the restriction of access this imposes. This includes, but is not limited to, permanent street furniture such as planters and bollards and temporary buildings such as welfare units and other enclosed spaces. The building proximity distances for medium pressure assets is as follows:

Material	Minimum proximity to premises
Cast/Spun Iron	3m
Ductile Iron	30m
Steel	1m
PE (inserted)	1m
PE (non-inserted)	2m for diameters ⩽ 500mm 5m for diameters > 500mm

Please note that the easement distance may be greater than the building proximity distance. For any proposed structures in the easement, please consult with the Cadent network Plant Protection Officer.

6.2 Excavation

6.2.1 General

Mechanical excavators should not be sited or moved above an asset.

Mechanical excavators and any other powered mechanical plant shall not dig on one side of the asset with the cab of the excavator positioned on the other side. All traffic should be positioned far enough away from the trench to prevent trench wall collapse.

Excavation with a powered mechanical excavator should not be carried out until the asset has been located through vacuum excavation or by hand. No mechanical excavation is permitted within 500mm of a gas asset. Any mechanical excavation should utilise a banksman. Toothless buckets shall be used due to the potential of damage to assets using toothed excavator buckets.

Consideration shall be given to apparatus installed on gas assets including valves, spindles, pressure points etc. Any fitting, attachment or connecting pipework on an asset shall be exposed by hand.

Where concrete is exposed around gas apparatus, it shall not be removed without first consulting with a Cadent Plant Protection Officer as it could be providing protection or anchorage to live apparatus.

Where a third party is using any trench support system, they shall ensure that none of its components are in contact with an asset.

The use of chain trenchers is not permitted within 3m of the confirmed location of an asset.

6.2.2 Working in vicinity of iron pipework

When deep excavation greater than 1.5m in depth is carried out in the vicinity of iron pipework, steps shall be taken to ensure the risk associated with immediate and latent asset failure are considered and, where necessary, excavations are cut back to reduce the shear factor created by ground disturbance likely to result in settlement. This also includes instances where excavations are part of construction works, including basement conversions, underground carparks, shaft construction, etc.

Care should be taken to ensure that any exposed iron pipework is suitably supported at 1m intervals and protected from damage to avoid creating tensions that could lead to joint disturbance or pipe barrel fracture.

Where fittings or existing repairs are uncovered, care shall be taken to ensure that these are not disturbed.

When working near ductile iron pipework, any corrosion identified on the pipeline shall be reported to 0800 111 999 for a first call operative to attend to undertake a hazard assessment.

6.2.3 In proximity to an asset in an easement

Where sufficient depth of cover exists and the absence of attachments and projections has been confirmed (e.g. valve spindles, pressure points etc.), following evidence from hand dug trial holes, light tracked vehicles may be permitted to strip topsoil to a depth of 250mm 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 other gas assets.

After the completion of the work, the level of cover over the asset should be the same as that prior to work commencing.

No new service shall be laid parallel to the asset within the easement.

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

6.2.4 In proximity to an asset in the highway

Where sufficient depth of cover exists, and the absence of attachments and projections has been confirmed (e.g. valve spindles, pressure points etc.), following evidence from hand dug trial holes, removal of the bituminous or concrete highway surface layer by mechanical means is permitted to a depth of 300mm. Where the bituminous or concrete highway surface layer extends below 300mm deep, it shall only be removed by handheld power assisted tools.

6.2.5 Crossing over an asset (Open cut)

Where a new service is to cross over a gas asset, a minimum clearance distance of 1.5 times the diameter of the gas asset or 300mm, whichever is greater, shall be maintained. If this cannot be achieved, the service shall cross below the asset, see Section 6.2.6.

6.2.6 Crossing below an asset (Open cut)

Where a service is to cross below a gas asset, a minimum clearance distance of 1.5 times the diameter of the gas asset or 300mm, whichever is greater, between the crown of the new service and underside of the asset shall be maintained. The exposed asset shall be suitably supported and protected by matting and timber cladding. Any supports shall be removed prior to backfilling.



6.2.7 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 shall liaise with the Cadent Plant Protection Officer and 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, 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.

6.2.8 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, a risk assessment carried out and this shall be provided to the Cadent Plant Protection Officer for inspection. Equipment shall not be installed if the integrity of Cadent's assets is compromised. In this case, diversion of the affected assets is required.

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

6.3 Construction traffic

The promoter of the works shall review the ground conditions, vehicle types and crossing frequency to determine the type and construction of crossing that will be required. Additionally, no undue loads such as spoil heaps, lighting columns, permanent traffic lights or road signs should be allowed over gas assets.

Iron pipes, or pipes that are not already within an existing road (such as those within footways or verges), shall not be crossed by construction vehicles without suitable protection and the consent of the Cadent Plant Protection Officer.

Where existing roads cannot be used, construction traffic should only cross Cadent assets at specific locations, with notices directing traffic to the crossing points erected. All crossing points shall:

- Be at right angles to the asset
- Be fenced denoting the existence of the asset to ensure all traffic uses the crossing point. The fencing shall cover the width of any easements and extend a further 6m along the length of any easements on both sides (see Figure 2).
- Have signs attached to the fence denoting the asset that the crossing point is located over

- Be regularly inspected and maintained in good condition

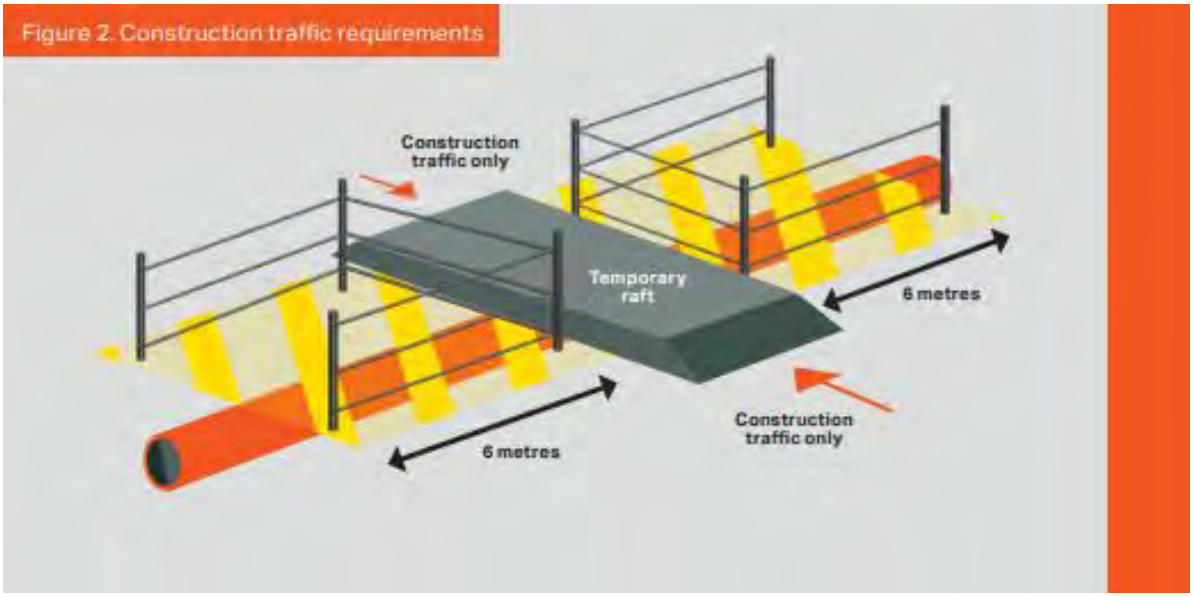
Note: A 5mph speed restriction should be enforced at all crossing points.

Suitable protection methods may include:

- Temporary protection slab
- Free-standing bridges (prefabricated modular steel or pre-cast concrete bridges)
- Proprietary access roadways
- Haul roads (including hardcore, sleepers, steel plates or a combination)

For larger scale projects or permanent crossings, diversion of the asset may be required.

Figure 2. Construction traffic requirements



6.4 Specific activities

This section details the precautions that need to be taken when carrying out certain prescribed activities in the vicinity of a Cadent asset. The promoter of works is required to consult Cadent when intending to undertake one of the activities listed below to obtain further site-specific advice on whether the work has the potential to affect the asset. The table below shows, for some specific activities, the prescribed distances where the advice of Cadent shall be sought.

Activity	Distance within which Cadent advice shall be sought
Piling	15m
Surface mineral extraction	100m
Landfilling	100m
Demolition	150m or 400m for structure mass > 10,000 tonnes
Blasting	500m if the MIC is > 200kg 250m if the MIC is > 10kg but ⩽ 200kg 100m if the MIC is ⩽ 10kg
Deep mining	1000m
Wind turbine	1.5 times mast height

6.4.1 Carriageway construction (including widening & bell mouth construction)

Where it is proposed to carry out carriageway construction over an asset previously located in a footway or verge, you must contact the diversions team to determine if diversion or replacement of the asset is required before commencement of your works.

6.4.2 Trenchless techniques

Where trenchless techniques are being considered, a formal risk assessment and method statement shall be produced and submitted to the Cadent Plant Protection Officer for review prior to commencing work. Please provide Cadent with at least 14 days' notice as we may wish to be present to monitor the work.

6.4.2.1 Tunnelling

Ground movement may occur when tunnelling in soft ground conditions. Ground movement contours from the tunnelling operation shall be calculated and all gas assets within the affected zone should be identified and assessed.

PE assets can tolerate some differential ground movement.

For cast and ductile iron assets, acceptable limits on stress increase and joint disturbances are defined in the performance acceptance criteria for iron mains.

For steel assets, an integrity assessment should be carried out according to the industry standard **IGEM/TD/12 – Pipework stress analysis for gas industry plant**. An expert on Soil/Pipe Interaction Analysis should be consulted when required for the evaluation of ground movement effects on the assets.

For any proposed tunnelling works, you must contact the diversions team to determine if diversion or replacement of the asset is required before commencement of your works, due to the likely impact on our assets.

6.4.3 Changes to depth of cover

The depth of cover over Cadent's asset shall not be altered. Where a change in cover is required, contact your network Plant Protection Officer.

6.4.4 Piling

No piling shall be allowed within 15m 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 75mm/sec.

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

The promoter of the works should provide the Cadent Plant Protection Officer with 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 the 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 Plant Protection Officer 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, which may require expert advice.



6.4.5 Demolition

No demolition should be allowed within 150m of an asset for 400m for a structure mass greater than 10,000 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 75mm/sec.

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

The promoter of the works should provide the Cadent Plant Protection Officer with 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 the 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 Plant Protection Officer 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.

6.4.6 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:

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

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

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

The promoter of the works should provide the Cadent Plant Protection Officer with 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 Plant Protection Officer 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.

6.4.7 Surface mineral extraction

An assessment shall be carried out on the effect of surface mineral extraction activity within 100m of a gas 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. Where an easement exists, the easement strip shall 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 need 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 100m of the asset but do not extend up to the asset easement boundary, an assessment should be made as to 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 6.4.6 apply.

6.4.8 Deep mining

Gas assets within 1km 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.

6.4.9 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 100m of an asset. The assessment is particularly important if landfilling operations are taking place on a slope in which the asset is routed.

6.4.10 Pressure testing

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

6.4.11 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 75mm/sec at the asset or for iron assets that will result in peak particle velocities in excess of 25mm/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 Plant Protection Officer on request.

6.4.12 Hot work

Where the Cadent's metallic gas assets have 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, shall not take place within 500mm of the gas asset. For further advice contact your network Plant Protection Officer.

Protection measures shall be agreed with the Cadent Plant Protection Officer prior to installation to prevent the effects of sparks, radiant heat transfer etc.

Any hot works in proximity to a Cadent gas asset require leakage surveys prior to, during and after the works. If gas is detected, all works shall stop, and the leak immediately reported to the National Gas Emergency Service on 0800 111 999.

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

6.4.13 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.

Further guidance can be found from UKOPA's Good Practice Guide 13 (UKOPA/GP/013) - Requirements for the Siting and Installation of Wind Turbines Installations in the Vicinity of Buried Pipelines.

6.4.14 Solar farms

Solar Farms can be built adjacent to gas assets, but never within an 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.

Interference checks shall be completed by the third party to ensure that the solar installations and associated infrastructure have no negative effect on cathodic protection systems.

Further guidance can be found from UKOPA's Good Practice Guide 14 (UKOPA/GP/014) - Requirements for the Siting and Installation of Solar Photovoltaic (PV) Installations in the Vicinity of Buried Pipelines.

6.4.15 Lifting operations

Where lifting operations are planned to be carried out in the vicinity of medium pressure apparatus a site-specific risk assessment and lift plan is required to be reviewed by the Cadent Plant Protection Officer.

Protection shall be afforded to live apparatus when carrying out the works to prevent impact damage in the event of an uncontrolled failure or drop. Any loads shall be secured using suitable and sufficient lifting accessories to reduce the likelihood of the load being dropped.

Consideration shall be given to the location of lifting equipment and the loads induced into the ground to avoid the potential overloading of buried apparatus. Where the site cannot be laid out to avoid loading gas apparatus, the asset shall be suitably protected with the consent of the Cadent Plant Protection Officer. Alternatively, the asset will require replacement/diversion.

6.5 Backfilling and reinstatement

Reinstatement around Cadent apparatus still poses a risk to the integrity of the asset. A gas asset must not be located within the footway or carriageway construction as this has the potential to cause damage to the apparatus during and post completion of the reinstatement.

No backfilling should be undertaken without Cadent's agreement to proceed. Some equipment may not be suitable for use over or around assets due to the adverse effects of excessive compaction and vibration levels.

A gas asset shall not be encased in concrete or have concrete positioned within 300mm of the asset, or anywhere above an iron gas asset due to the need for future access.

The fine fill material should be firmly packed around the pipe in 100mm layers to achieve a compacted thickness of 75mm and shall be laid to a minimum depth of 150mm above the crown of the asset.

Mechanical compaction equipment shall not be used until a 250mm hand rammed layer has been compacted above the crown of the pipe.

For backfilling and reinstatement in the vicinity of iron apparatus, in addition to the above, the maximum weight of compaction equipment used above the crown of the asset shall not exceed 1.5t/m^2 and vibratory compaction shall not be used.

Material used in the backfill shall conform to the following requirements:

- Sand shall be well-graded in accordance with BS EN 13242:2002+A1:2007
- It shall not contain any sharp objects, large stones or bricks

- Foamed concrete shall not be used

We will require marker tape to be installed at least 250mm above the crown of the main.

Prior to backfilling, if the asset is coated, Cadent require the opportunity to inspect its condition in order assess and to carry out any repairs as necessary. Please contact your network Plant Protection office to arrange this. Any damage to the asset or coating shall be reported to the Cadent Plant Protection Officer so that damage can be assessed, and repairs carried out.

Minor (and existing) damage to pipe coating and cathodic protection test leads will be repaired by Cadent free of charge. If the asset has been backfilled without the knowledge of the Cadent Plant Protection Officer, the third party will need to re-excavate to enable the condition of the asset coating to be assessed.

All temporary supports shall be removed prior to backfill but only when the asset is sufficiently supported by bedding material around the pipe.



7. Working in the Vicinity of a Low Pressure Gas Asset (Operating at Pressures up to 75 mbar)

For planned and emergency works in the vicinity of Low Pressure gas assets, the promoter will be advised proceed with caution. The guidance contained within this section must be followed. If it cannot, contact shall be made with the network Plant Protection office for advice.

7.1 Temporary and permanent structures

No temporary or permanent structures are permitted to be installed above, or in close proximity to a gas asset or easement due to the restriction of access this imposes. This includes, but is not limited to, permanent street furniture such as planters and bollards and temporary buildings such as welfare units and other enclosed spaces. The building proximity distances for low pressure assets is as follows:

Material	Minimum proximity to premises
All materials	1m

Please note that the easement distance may be greater than the building proximity distance, for any proposed structures in the easement please consult with the Cadent network Plant Protection Officer.

7.2 Excavation

7.2.1 General

Mechanical excavators should not be sited or moved above an asset.

Mechanical excavators and any other powered mechanical plant shall not dig on one side of an asset with the cab of the excavator positioned on the other side. All traffic should be positioned far enough away from the trench to prevent trench wall collapse.

Excavation with a powered mechanical excavator should not be carried out until gas assets have been located through vacuum excavation or by hand. No mechanical excavation is permitted within 500mm of gas assets. Any mechanical excavation should utilise a banksman. Toothless buckets shall be used due to the potential of damage to assets using toothed excavator buckets.

Consideration shall be given to apparatus installed on gas assets including valves, spindles, pressure points etc. Any fitting, attachment or connecting pipework on the asset shall be exposed by hand.

Where concrete is exposed around gas apparatus this shall not be removed as it could be providing protection or anchorage to the live apparatus.

Where a third party is using any trench support system, they shall ensure that none of its components are in contact with the asset.

The use of chain trenchers to do this is not permitted within 3m of the confirmed location of the asset.

7.2.2 Working in vicinity of iron pipework

When deep excavation greater than 1.5m in depth is carried out in the vicinity of iron pipework, steps shall be taken to ensure the risk associated with immediate and latent asset failure are considered, and where necessary, excavations are cut back to reduce the shear factor created by ground disturbance likely to result in settlement. This also includes instances where excavations are part of construction works including basement conversions, underground carparks, shaft construction, etc.

Care should be taken to ensure that any exposed iron pipework is suitably supported at 1m intervals and is protected from damage to avoid creating tensions that could lead to joint disturbance or pipe barrel fracture.

Where fittings or existing repairs are uncovered care shall be taken to ensure that these are not disturbed.

When working near ductile iron pipework should any corrosion be identified on the pipeline this shall be reported to 0800 111 999 for a first call operative to attend to undertake a hazard assessment.

7.2.3 In proximity to an asset in an easement

Where sufficient depth of cover exists and the absence of attachments and projections has been confirmed (e.g. valve spindles, pressure points etc.), following evidence from hand dug trial holes, light tracked vehicles may be permitted to strip topsoil to a depth of 250mm 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 other gas assets.

After the completion of the work, the level of cover over an asset should be the same as that prior to work commencing.

No new service shall be laid parallel to an asset within an easement.

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

7.2.4 In proximity to an asset in the highway

Where sufficient depth of cover exists, and the absence of attachments and projections has been confirmed (e.g. valve spindles, pressure points etc.), following evidence from hand dug trial holes, removal of the bituminous or concrete highway surface layer by

mechanical means is permitted to a depth of 300mm. Where the bituminous or concrete highway surface layer extends below 300mm deep, it shall only be removed by handheld power assisted tools.

7.2.5 Crossing over an asset (Open cut)

Where a new service is to cross over an asset, a minimum clearance distance of 1.5 times the diameter of the gas asset or 300mm, whichever is greater shall be maintained. If this cannot be achieved, the service shall cross below the asset, see Section 7.2.6.

7.2.6 Crossing below an asset (Open cut)

Where a service is to cross below an asset, a minimum clearance distance of 1.5 times the diameter of the gas asset or 300mm, whichever is greater, between the crown of the new service and underside of the asset shall be maintained. The exposed asset shall be suitably supported and protected by matting and timber cladding. Any supports shall be removed prior to backfilling.

7.2.7 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 shall 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, shall be given to Cadent. Cadent will undertake this work and any associated costs will be borne by the third party.

7.2.8 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 carried out. Equipment shall not be installed if the integrity of Cadent's assets is compromised. In this case, diversion of the affected assets will be required.

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

7.3 Construction traffic

The promoter of the works should review the ground conditions, vehicle types and crossing frequency to determine the type and construction of crossing that will be required. Additionally, no undue loads such as spoil heaps, lighting columns, permanent traffic lights or road signs shall be allowed over gas assets.

Iron pipes, or pipes that are not already within an existing road such as those within footways or verges shall not be crossed by construction vehicles without suitable protection being designed and installed. Consideration shall be given to the requirement for access to low pressure apparatus therefore for large scale, long duration projects, or permanent crossings, the diversions process shall be followed to determine whether the asset requires diversion/replacement in advance of the works taking place.

Where existing roads cannot be used, construction traffic should only cross Cadent assets with a minimum depth of cover of 750mm (post crossing construction) at specific locations, with notices directing traffic to the crossing points erected. All crossing points shall:

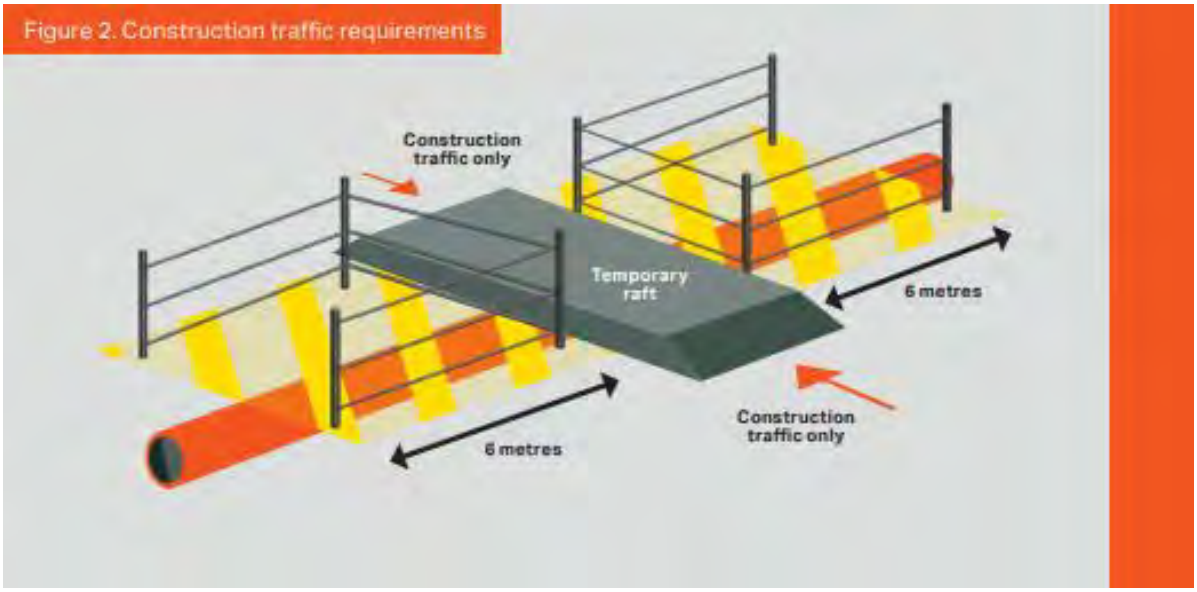
- Be at right angles to the asset
- Be fenced denoting the existence of the asset to ensure all traffic uses the crossing point. The fencing shall cover the width of any easements and extend a further 6m along the length of any easements on both sides (see Figure 2).
- Have signs attached to the fence denoting the asset that the crossing point is located over
- Be regularly inspected and maintained in good condition

Note: A 5mph speed restriction should be enforced at all crossing points.

Suitable protection methods may include:

- Temporary protection slab
- Free-standing bridges (prefabricated modular steel or pre-cast concrete bridges)
- Proprietary access roadways
- Haul roads (including hardcore, sleepers, steel plates or a combination)

Figure 2. Construction traffic requirements



7.4 Specific activities

This section details the precautions that need to be taken when carrying out certain prescribed activities in the vicinity of a Cadent asset. The promoter of works is required to consult Cadent when intending to undertake one of the activities listed below and further advice is required on whether the work has the potential to affect the asset.

7.4.1 Carriageway construction (including widening & bell mouth construction)

Where it is proposed to carry out carriageway construction over an asset previously located in a footway or verge you must contact the diversions team to determine if diversion or replacement of the asset is required before commencement of your works.

7.4.2 Trenchless techniques

Where trenchless techniques are being considered, a formal risk assessment and method statement shall be produced prior to commencing work.

Trial holes shall be undertaken to ensure that sufficient clearance exists between gas assets and the proposed third-party asset (or the pipe to be split if a pipe splitting technique is being used) prior to the works.

If an asset is to be replaced using pipe splitting techniques in the vicinity of iron mains, in addition to the below clauses, an integrity assessment shall be undertaken.

When running parallel to gas assets, the minimum clearance shall be:

- 1m

When crossing gas assets, the minimum clearance shall be:

- 500mm or 1.5 times the diameter of the asset, whichever is greater.

Clearances may need to be increased due to the following factors:

- Ground conditions
- Largest reamer diameter
- Type of reamer used, e.g. hollow, finned, etc.
- Accuracy of equipment being used
- Construction of adjacent services and structures
- Configuration of other underground services crossing or running parallel to the drill path
- Consequences of damage
- Pipe stress increase from potential ground movement

The exposed asset should be suitably supported and be protected by matting and suitable timber cladding to reduce the risk of damage from any broken pipe fragments (if pipe splitting is used). Supports shall be removed prior to backfill but only when the asset is sufficiently supported by bedding material around the pipe.

All lateral crossings shall be exposed around their full circumference with an additional 250mm clearance below. The width of the excavation shall be three times the diameter of the largest reamer or 500mm either side of the largest reamer, whichever is the greatest. These clearances shall be measured from the drill path centre. Each crossing should be manned during the drilling/splitting operation to watch the reamer/splitter pass.

For pipe splitting running parallel to a buried gas asset, trial holes should be undertaken at suitable and frequent locations along the proposed route to confirm sufficient clearance distances exist, and the pipe route is confirmed.

The line of the pipe to be installed/split should be monitored along its length to ensure no variance from its path.

Consideration should be given for a leakage survey to be undertaken before work starts, during the works if safe to do so and following completion. If there is any likelihood of damage to the asset, the operation shall be stopped immediately.

7.4.2.1 Tunnelling

Ground movement may occur when tunnelling in soft ground conditions. Ground movement contours from the tunnelling operation shall be calculated and all gas assets within the affected zone should be identified and assessed.

PE assets can tolerate some differential ground movement.

For cast and ductile iron assets, acceptable limits on stress increase and joint disturbances are defined in the performance acceptance criteria for iron mains.

For steel assets an integrity assessment should be carried out according to the industry standard **IGEM/TD/12 – Pipework stress analysis for gas industry plant**. An expert on Soil/Pipe Interaction Analysis should be sought when required for the evaluation of ground movement effects on the assets.

For any proposed tunnelling works, due to the likely impact on our assets you must contact the diversions team to determine if diversion or replacement of the asset is required before commencement of your works.

7.4.3 Changes to depth of cover

The depth of cover over or around Cadent's iron assets shall not be altered. If a change in the depth of cover is required, you must contact the diversions team to arrange for diversion or replacement of the asset before commencement of your works.

For PE and steel pipes, reductions in depth of cover are only permitted if the below minimum depths of cover can be maintained (following investigation across the affected length):

- In fields and agricultural land 1.1m
- In roads and verges 750mm
- In footpaths 600mm
- In private property 600mm

Substantial increases in depth of cover shall not be permitted.

Where a change in the depth of cover affects attachments and projections such as services and valves, liaison with our diversions team is required to ensure these are appropriately protected or altered.

7.4.4 Piling

No piling shall be allowed within 15m 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 75mm/sec.

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

The promoter of the works should determine 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 the 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 Plant Protection Officer 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, which may require expert advice.

7.4.5 Demolition

No demolition should be allowed within 150m of an asset for 400m for a structure mass greater than 10,000 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 75mm/sec.

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

The promoter of the works should determine 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 the 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 Plant Protection Officer 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.

Where demolition is proposed you must ensure that the gas supply to the premises has been isolated in a suitable, identified location.

7.4.6 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:

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

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

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

The promoter of the works should determine 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 Plant Protection Officer 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.

7.4.7 Surface mineral extraction

An assessment shall be carried out on the effect of surface mineral extraction activity within 100m 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. Where an easement exists, the easement strip shall 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 need 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 100m of the asset but do not extend up to the asset easement boundary, an assessment should be made as to 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 7.4.6 apply.

7.4.8 Deep mining

Assets routed within 1km 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.

7.4.9 Landfilling

The creation of slopes outside of the asset easements may promote instability within the vicinity of the asset. An assessment shall be carried out by the promoter of the works to determine the effect of any landfilling activity within 100m of an asset. The assessment is particularly important if landfilling operations are taking place on a slope in which the asset is routed.

7.4.10 Pressure testing

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

7.4.11 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 75mm/sec at the asset or for iron assets that will result in peak particle velocities in excess of 25mm/sec at the asset.

The promoter of the works should determine 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 Plant Protection Officer on request.

7.4.12 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.

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, shall not take place within 500mm of the gas asset.

Protection measures shall be installed to prevent the effects of sparks, radiant heat transfer etc.

Any hot works in proximity to a Cadent gas asset shall require leakage surveys prior to, during and after the works. If gas is detected, all works shall stop, and the leak immediately reported to the National Gas Emergency Service on 0800 111 999.

7.4.13 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.

Further guidance can be found from UKOPA's Good Practice Guide 13 (UKOPA/GP/013) - Requirements for the Siting and Installation of Wind Turbines Installations in the Vicinity of Buried Pipelines.

7.4.14 Solar farms

Solar Farms can be built adjacent to assets but never within an easement.

Interference checks shall be completed by the third party to ensure that the solar installations and associated infrastructure have no negative effect on cathodic protection systems.

Further guidance can be found from UKOPA's Good Practice Guide 14 (UKOPA/GP/014) - Requirements for the Siting and Installation of Solar Photovoltaic (PV) Installations in the Vicinity of Buried Pipelines.

7.4.15 Lifting operations

Where lifting operations are planned to be carried out in the vicinity of low pressure apparatus a site-specific risk assessment and lift plan is required.

Protection shall be afforded to live apparatus when carrying out the works to prevent impact damage in the event of an uncontrolled failure or drop. Any loads shall be secured using suitable and sufficient lifting accessories to reduce the likelihood of the load being dropped.

Consideration shall be given to the location of lifting equipment and the loads induced into the ground to avoid the potential overloading of buried apparatus. Where the site cannot be laid out to avoid loading gas apparatus, the asset shall be suitably protected with the consent of the Cadent Plant Protection Officer. Alternatively, the asset will require replacement/diversion.

7.5 Backfilling and reinstatement

Reinstatement around Cadent apparatus still poses a risk to the integrity of the asset. A gas asset must not be located within the footway or carriageway construction as this has the potential to cause damage to the apparatus during and post completion of the reinstatement.

No backfilling should be undertaken without Cadent's agreement to proceed. Some equipment may not be suitable for use over or around assets due to the adverse effects of excessive compaction and vibration levels.

A gas asset shall not be encased in concrete or have concrete positioned within 300mm of the asset or anywhere above an iron gas asset due to the need for future access.

The fine fill material should be firmly packed around the pipe in 100mm layers to achieve a compacted thickness of 75mm and shall be laid to a minimum depth of 150mm above the crown of the asset

Mechanical compaction equipment shall not be used until a 250mm hand rammed layer has been compacted above the crown of the pipe

For backfilling and reinstatement in the vicinity of iron apparatus, in addition to the above, the maximum weight of compaction equipment used above the crown of the pipe shall not exceed 1.5t/m^2 and vibratory compaction shall not be used.

Material used in the backfill shall conform to the following requirements:

- Sand shall be well-graded in accordance with BS EN 13242:2002+A1:2007
- It shall not contain any sharp objects, large stones or bricks
- Foamed concrete shall not be used

We will require marker tape to be installed at least 250mm above the crown of the pipe. Any damage to the asset or coating shall be reported to the Cadent Plant Protection Office so that damage can be assessed, and repairs carried out.

Minor (and existing) damage to pipe coating and cathodic protection test leads will be repaired by Cadent free of charge. If the asset has been backfilled without the knowledge of the Cadent Plant Protection Officer, the third party will need to re-excavate to enable the condition of the asset coating to be assessed.

All temporary supports shall be removed prior to backfill but only when the asset is sufficiently supported by bedding material around the pipe.

8. Working in the Vicinity of a Pressure Reduction Installation (PRI)

Pressure reduction installations come in a variety of forms:

- Above Ground Installation (AGI) – Sites with exposed pipes surrounded by fencing
- Above Ground Installation (AGI) – District governors often found in large above ground kiosks with vent stacks attached
- Below Ground Installation – District governors with large surface governors for valves and pressure reduction equipment with an above ground control cabinet and vent stack
- Service governor Installations – Small service governors providing gas to a small number of customers in an area often identified by a small green or brick kiosk

Where excavations are to be made within 10 metres of the perimeter of a pressure reduction installation (above or below ground), with the exception of service governor installations, appropriate protection methods should be determined and recorded by the Cadent Plant Protection Officer.

These installations may have magnetic slam shut devices which could operate in the event of high vibration levels being caused by the works. Advice on whether these are present shall be sought from the Cadent Plant Protection Officer and we may need to have an operative, with the competence to reset the plant, on site whilst your works are being undertaken.

Hazardous areas may be present around these installations and no ignition sources are permitted within these zones. Information on the zonings shall be sought from the Cadent Plant Protection Officer prior to commencement of any works on site.

There may be telemetry and pressure recording lines in the vicinity of these installations therefore extreme caution must be exercised when planning and undertaking works it the vicinity of these assets.

In addition to this, the safety advice detailed in either or a combination of Sections 5, 6 or 7 shall be observed when working in the proximity of an AGI.

Access to gas assets shall be maintained at all times.

9. Tree Planting

Before any tree planting is carried out in the vicinity of a Cadent asset or its easement, written consent should be obtained. This approval should be subject to Cadent retaining the right to remove any trees which might become a danger or restrict access to the asset at any time in the future.

The only hardwood plants which can be planted directly across an asset are shallow rooting hedge plants such as Quickthorn, Blackthorn, etc., and these shall only be planted where a hedge is necessary for screening or to indicate a field boundary.

Raspberries, Gooseberries and Blackcurrants shall not be planted within 2m of the outside edge of the pipe.

Dwarf Apple Stocks shall not be planted within 3m of an asset.

Christmas trees (Picea Abies) shall not be planted within 3 metres of an asset. However, permission may be given on the strict understanding that Christmas trees are clear-felled at intervals not exceeding seven years.

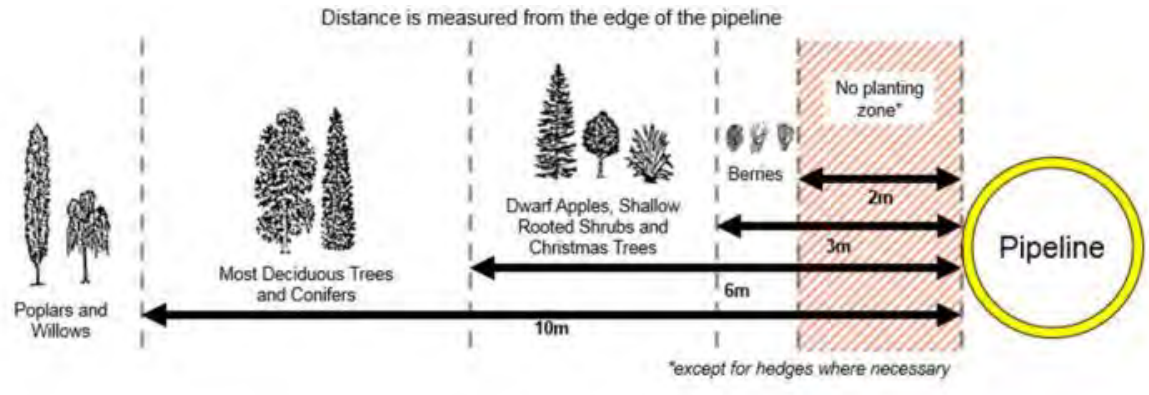
The following trees, and those of similar size which may be deciduous or evergreen, shall not be planted within 6 metres of an asset:

- Ash, Beech, Birch, most Conifers, Elm, Maple, Horse Chestnut, Oak, Sycamore, Apple, Lime and Pear trees.

Dense mass planting shall not be carried out within 10m of the outside edge of the pipe.

Poplar and Willow trees shall not be planted within 10m of the outside edge of the pipe.

For further guidance please refer to NJUG Volume 4.



10. Unidentified Exposed Pipes

An unidentified pipe is one that is not shown on any current or historical records.

Iron and steel water pipes and gas pipelines may appear very similar. If any such pipe is uncovered, it shall be treated as if it were a gas pipe.

If upon checking with all other utilities you believe an unidentified pipe to be a gas pipe, the promoter of the works shall contact plantprotection@cadentgas.com with the following information:

- LSBUD enquiry reference
- Site address (please include postcode and grid references)
- Site contact details
- Size of pipe
- Pipe material
- Confirmation that the unidentified pipe is exposed (if not, it will need to be exposed prior to our attendance)
- Confirmation that Cadent and all other asset owners plans, are available for review and inspection
- Photos of the pipe

Please be aware that it can take up to 28 days for us to confirm whether the unidentified exposed pipe is a gas asset or not.

11. Action in case of Damage to an Asset

If you hit a gas 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*.

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



12. References

Document reference	Title
HASAWA	The Health and Safety at Work etc Act 1974
CDM	The Construction (Design and Management) Regulations 2015
LOLER	Lifting Operations and Lifting Equipment Regulations 1998
RIDDOR	Reporting of Injuries, Diseases & Dangerous Occurrences Regulations 2013,
GS(M)R	Gas Safety (Management) Regulations 1996
PSR	Pipelines Safety Regulations 1996
NRSWA	New Roads and Street Works Act 1991
HS(G)47	Avoiding Danger from Underground Services
IGEM/SR/18	Safe Working Practices to Ensure the Integrity of Gas Pipelines and Associated Installations
IGEM/TD/12	Pipework stress analysis for gas industry plant
NJUG Volume 4	Guidelines for the planning, installation and maintenance of utility apparatus in proximity to trees
UKOPA/11/0027	Requirements for the Siting of Wind Turbines Close to HP Pipelines
UKOPA/GP/013	Requirements for the Siting and Installation of Wind Turbines Installations in the Vicinity of Buried Pipelines
UKOPA/GP/014	Requirements for the Siting and Installation of Solar Photovoltaic (PV) Installations in the Vicinity of Buried Pipelines

13. Glossary of Terms

Term	Definition
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 and associated installations operating above 7 bar gauge are being undertaken.
Cadent Plant Protection Officer	The person or persons appointed by Cadent with the competencies required to act as the Cadent representative for the purpose of monitoring a particular activity.
Banksman	Another person who assists the machine operator 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



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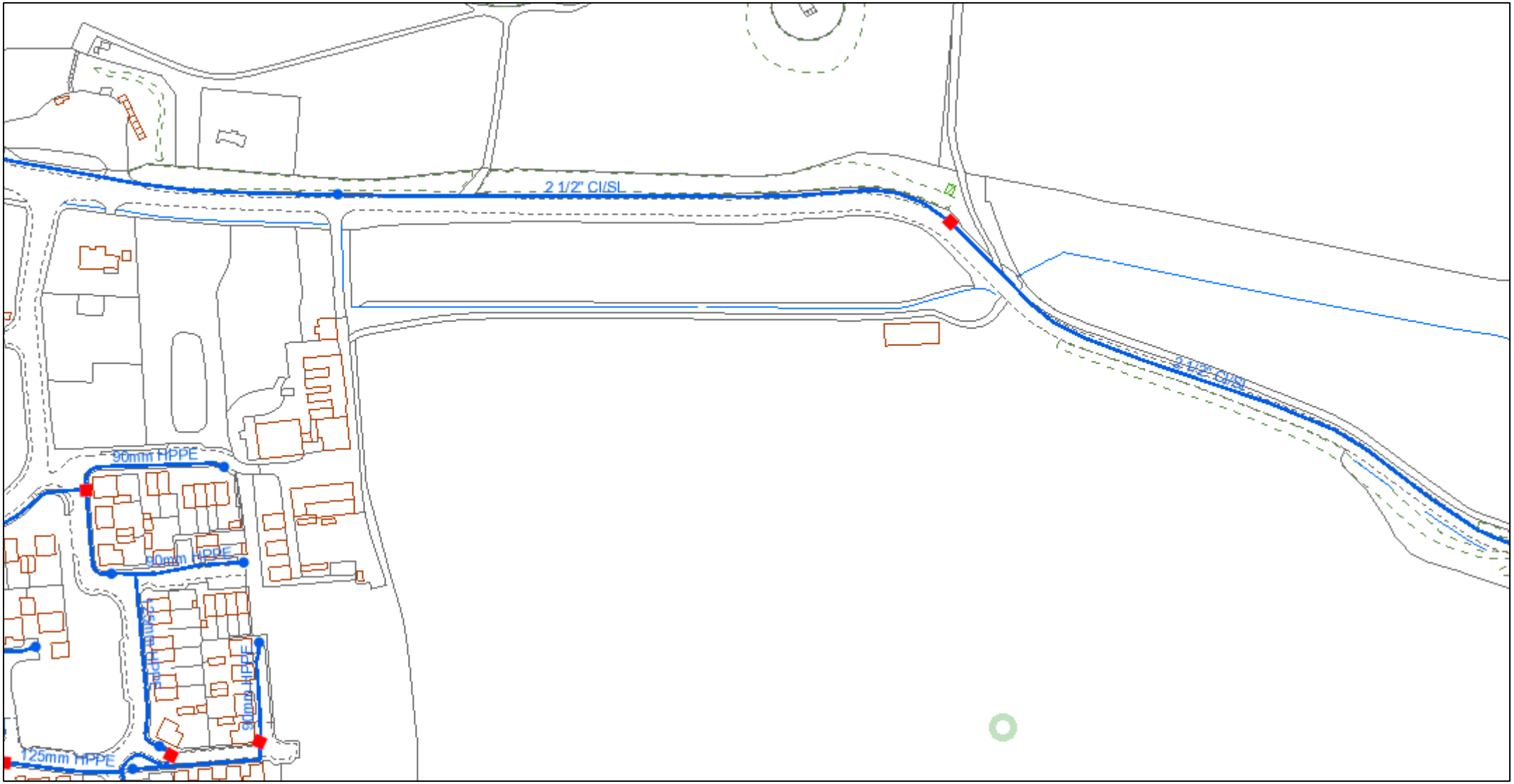
WATER

91 Market Street Hoylake Wirral CH47 5AA
Tel. 0151 632 5142
enquiries@cornerstoneprojects.co.uk
www.cornerstoneprojects.co.uk
VAT Reg. No. 851 4941 19
Company No. 5132353

Registered in England. Registered Address : Cornerstone Projects Ltd, 91 Market Street, Hoylake, Wirral CH47 5AA

35803

Created on - 4/17/2024



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Plans are continuously being updated, so out of date plans should be destroyed and not relied upon. The position of apparatus shown on this plan is provided for guidance only and should not be relied upon as being precise.
Therefore the Company accepts no responsibility in the event of inaccuracy. Service pipes are not necessarily shown on this plan. Cover is normally 915mm for mains and 750mm for communication pipes but this may vary.
The actual position of apparatus must be determined on site by making hand dug trial holes. The Company requires a minimum of two working days notice of the intention to excavate trial holes.
Except where prior written permission has been obtained, it is an offence under Section 174 of the Water Industry Act 1991 to operate or interfere with any valves, hydrants or other apparatus vested in Affinity Water.

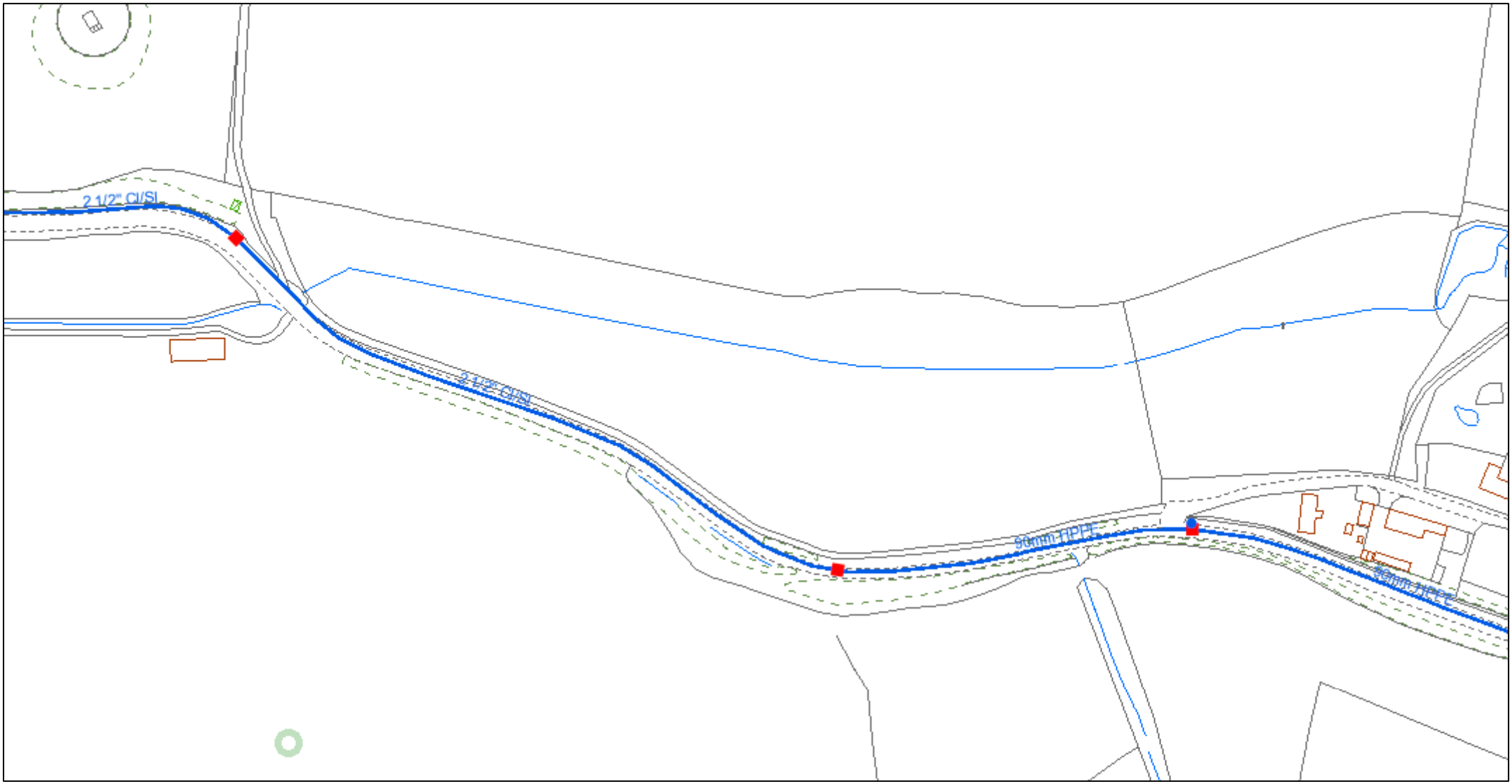
N

1:2,371

- Distribution Main
- Asbestos Distribution Main
- Abandoned Main
- Asbestos Abandoned Main
- Adit / Tunnel
- Cable
- Searched Location
- Hydrant
- Fitting
- Easement
- Company Boundary

35803

Created on - 4/17/2024



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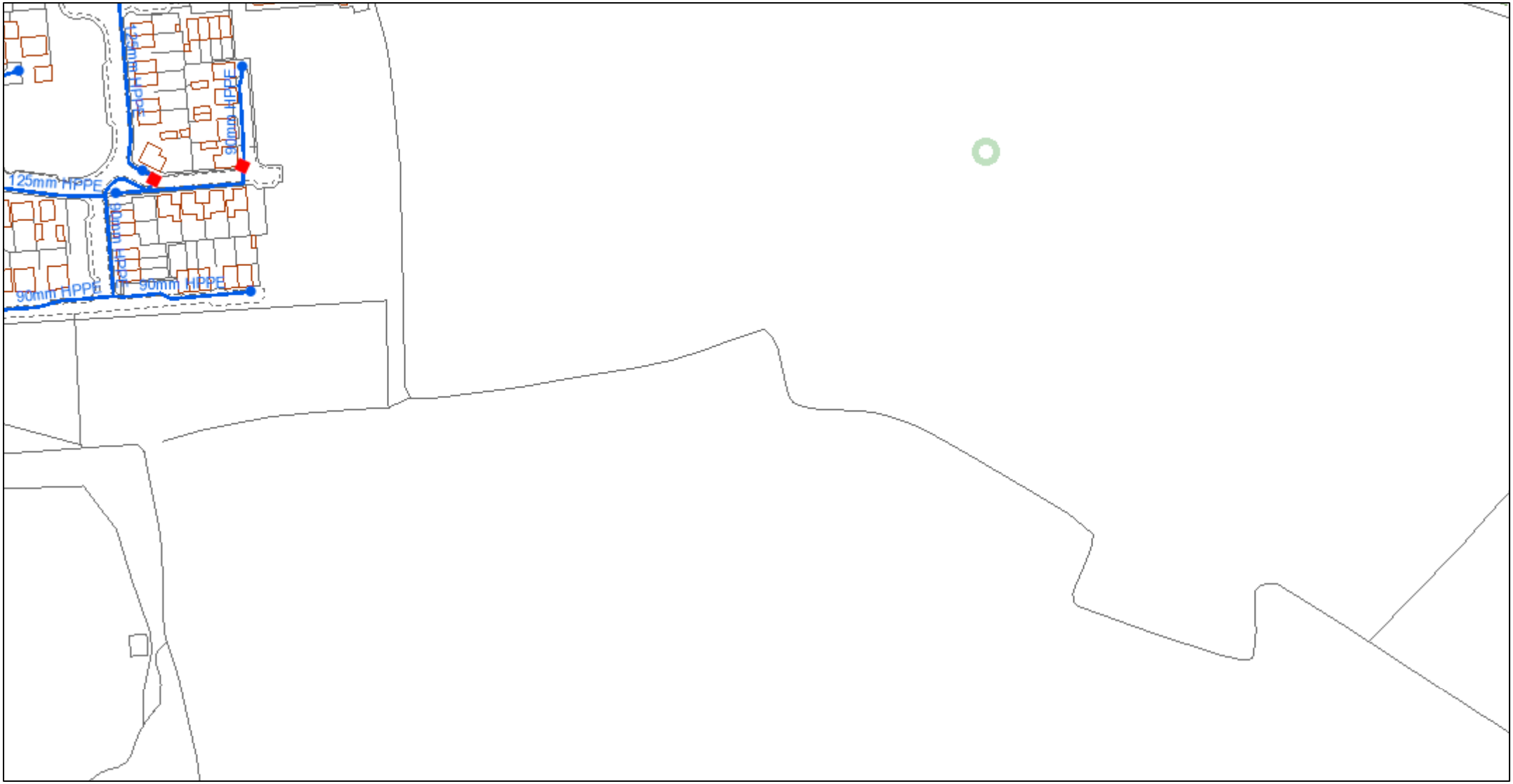
N

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- Asbestos Distribution Main
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- Asbestos Abandoned Main
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Affinity Water Limited – guidance on excavation in close proximity to our assets.

The mains were originally laid at an approximate depth of 900mm from ground to top of pipe. As surface reference points may well have been altered since, both line and depth must be regarded as approximate only. The Company cannot accept responsibility for loss or damage that may occur as a result of inaccuracies in the particulars supplied and actual locations must be determined by hand dug trial holes.

Records of service connections and telemetry cables are not kept on these plans. However, if you would like our Customer Service Technician to visit the site to meet your representative and mark the location of known services within your proposed working area, please telephone our Call Centre on 0345 3572407 and they will make the necessary arrangements. Service pipes to individual properties (which are not shown) were originally laid at a depth of 750mm from ground level to top of pipe.

If you are working in close proximity to our apparatus, please ensure the following precautions are taken:

- Temporary and/or permanent support must be provided. In the event of damage occurring to our apparatus, all repair costs incurred by the Company will be charged to you or your contractor.

- The exact position of Company apparatus when required, should be determined by hand dug trial holes.

- Telemetry cables and service pipes to individual properties may exist adjacent to the main and will generally not be indicated on the plan. You must not, therefore, assume that the Company has no apparatus within the vicinity other than that which is shown on the plan.

- Contractors should not increase the overburden pressure on mains. Contractors should avoid increasing or decreasing the depth of cover by more than 150mm. No buildings are to be erected within 2m of the main.

- Will you please ensure that all surface boxes and marker posts and plates belonging to the Company are kept clear during your works and realigned to any revised surface levels. In addition, no manholes, joint boxes, trees or other obstructions shall be placed over the Company's apparatus or in any position likely to cause difficulty for us to maintain our apparatus in the future.

- Once work has been completed the pipes should be surrounded by a layer of compacted sand and the marker tape replaced. The remainder of the backfill should not contain any large lumps of hard materials or sharp objects. Any pipe exposed by an excavation must be adequately supported for the whole of the exposed length. The pipe or support must not be used as a step or hand hold.

- All bends on mains are restrained by concrete thrust blocks bearing upon the surrounding soil. Under no circumstances should thrust blocks be disturbed or removed. If the thrust block needs to be removed approval will need to be gained from the Company.

- In the event of any leakage or damage sustained to any water main or ancillary equipment the Company must be notified immediately.

CORNERSTONE PROJECTS LTD

SEWER

91 Market Street Hoylake Wirral CH47 5AA
Tel. 0151 632 5142
enquiries@cornerstoneprojects.co.uk
www.cornerstoneprojects.co.uk
VAT Reg. No. 851 4941 19
Company No. 5132353

Registered in England. Registered Address : Cornerstone Projects Ltd, 91 Market Street, Hoylake, Wirral CH47 5AA



(c) Crown copyright and database rights 2024 Ordnance Survey 100022432 | Date: 17/04/24 | Scale: 1:1250 | Map Centre: 555781,238175 | Data updated: 31/03/24 | Our Ref: 1447299 - 1 | Wastewater Plan A1

This plan is provided by Anglian Water pursuant its obligations under the Water Industry Act 1991 sections 198 or 199. It must be used in conjunction with any search results attached. The information on this plan is based on data currently recorded but position must be regarded as approximate. Service pipes, private sewers and drains are generally not shown. Users of this map are strongly advised to commission their own survey of the area shown on the plan before carrying out any works. The actual position of all apparatus MUST be established by trial holes. No liability whatsoever, including liability for negligence, is accepted by Anglian Water for any error or inaccuracy or omission, including the failure to accurately record, or record at all, the location of any water main, discharge pipe, sewer or disposal main or any item of apparatus. This information is valid for the date printed. This plan is produced by Anglian Water Services Limited (c) Crown copyright and database rights 2024 Ordnance Survey 100022432.This map is to be used for the purposes of viewing the location of Anglian Water plant only. Any other uses of the map data or further copies is not permitted. This notice is not intended to exclude or restrict liability for death or personal injury resulting from negligence.

Foul Sewer	Outfall*	Sewage Treatment Works	
Surface Sewer			
Combined Sewer			
Final Effluent	Inlet*	Public Pumping Station	
Rising Main*			
Private Sewer*	Manhole*	Decommissioned Pumping Station	
Decommissioned Sewer*		*(Colour denotes effluent type)	

melanie@cornerstoneprojects.co.uk
35803

love every drop anglianwater

Manhole Reference	Easting	Northing	Liquid Type	Cover Level	Invert Level	Depth to Invert
0200	556052	238263	F	90.28	87.89	2.39
1200	556176	238270	F	92.77	90.861	1.909
1201	556169	238284	F	93	89.361	3.639
2200	556269	238244	F	96.45	94.16	2.29
2402	555268	238497	F	-	-	-
3400	555330	238412	F	71.86	69.5	2.36
3401	555304	238495	F	-	-	-
4400	555483	238403	F	75.2	72.413	2.787
5300	555503	238356	F	77.15	73.038	4.112
6300	555601	238356	F	78.16	73.705	4.455
7300	555794	238377	F	82.14	78.944	3.196
7301	555776	238357	F	81.75	77.044	4.706
7302	555701	238356	F	79.82	75.372	4.448
9300	555934	238313	F	85.5	83.49	2.01

Manhole Reference	Easting	Northing	Liquid Type	Cover Level	Invert Level	Depth to Invert

Manhole Reference	Easting	Northing	Liquid Type	Cover Level	Invert Level	Depth to Invert

Manhole Reference	Easting	Northing	Liquid Type	Cover Level	Invert Level	Depth to Invert

CORNERSTONE PROJECTS LTD

BT

91 Market Street Hoylake Wirral CH47 5AA
Tel. 0151 632 5142
enquiries@cornerstoneprojects.co.uk
www.cornerstoneprojects.co.uk
VAT Reg. No. 851 4941 19
Company No. 5132353

Registered in England. Registered Address : Cornerstone Projects Ltd, 91 Market Street, Hoylake, Wirral CH47 5AA

Our Ref: Ref shown on map

email: nnhc@openreach.co.uk

Date of issue shown on map

Dear Customer,

NR & SW ACT 1991 – PROPOSED WORKS AT:

Prior to commencement of work: for free onsite guidance and accurate up to date location of BT plant please contact our Plant Protection Service by the following methods
Email Dial before you dig CBYD@openreach.co.uk
Visit the website www.openreach.co.uk/cbyd

Thank you for your request of describing the above proposals.

Enclosed are copies of our drawing marked up to show the approximate locations of BT apparatus which is present in the immediate vicinity of your works. It 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 made near to British Telecommunications plc apparatus which may exist at various depths and may deviate from the marked route.

To avoid damage it is recommended that mechanical excavators or borers are not used within 600mm of British Telecommunications plc plant. If scaffolding is erected, please ensure that our equipment is not enclosed, blocked, covered or otherwise obstructed by the scaffolding.

In the event of BT apparatus being in the area of works we recommend that your plant/vehicle crossing is either resited, or apply for a budget estimate by submitting detailed plans to the above address, these will be forwarded to the appropriate department for their comments.

Please ensure you quote our reference on any future correspondence.

Yours faithfully,

Openreach Plant Maps Requested

NewSite Office (addresses can be found on the New Developments contact page)

Dear Sir/Madam,

You have downloaded copies of our drawings marked up to show the approximate location of Openreach apparatus, which is present in the immediate vicinity of your works. It 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 made near to Openreach apparatus, which may, exist at various depths and may deviate, from the marked route.

To avoid damage it is recommended that mechanical excavators or borers are not used within 600mm of Openreach plant. Please ensure that our equipment is not enclosed, blocked, covered or otherwise obstructed by your plant. In the event of clearance not being adequate we anticipate that your plant is either resited, or an order is placed with Openreach for rearrangements of its plant. If there are any difficulties with the Map please email cbyd@openreach.co.uk

---

Please contact our Network Protection Service by Email on cbyd@openreach.co.uk giving four calendar weeks notice of your commencement date. This will provide you with on-site advice and a check of location for any Openreach apparatus.

Further to this, I hope the following points will assist you at the new development: -

Openreach has a licence obligation to provide service to any end customer requiring a connection. A Developer would not normally be charged for provision of service, our standard connection charges would apply to the end user when orders are placed with the communication provider of choice. However, should a Developer insist on an underground service in an area where Openreach plant is provided overhead, charges may be incurred.

When the Developer has obtained contract and planning permission Openreach would request a 'Clean', scaled Site Layout, Location Map and a covering letter be sent to the relevant newSite Office. We would particularly request that you give details of your programmed site start date and likely first occupancy date where possible. To obtain contact details of the newSite office covering the development area click on the URL below.

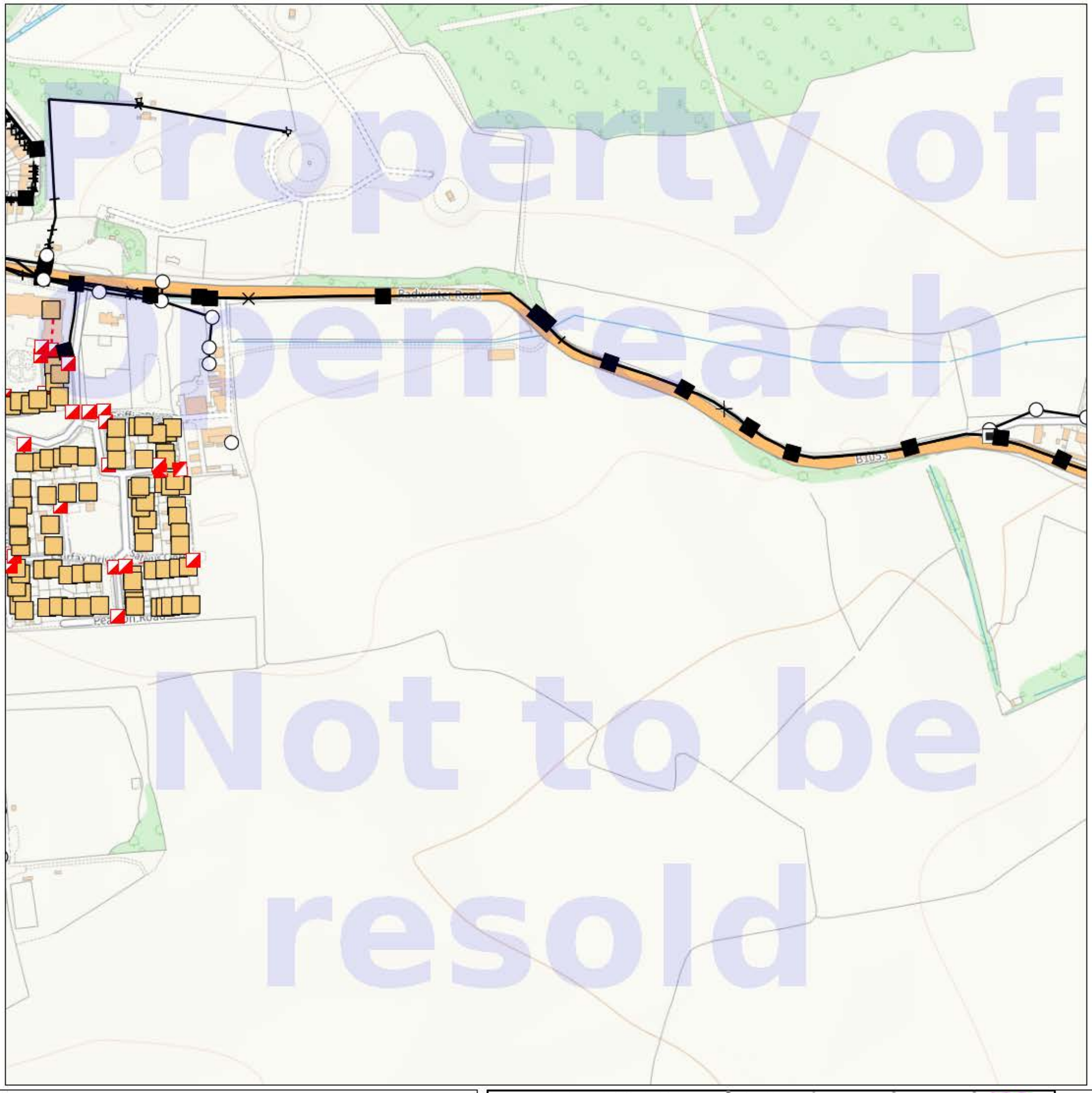
http://www.newdevelopments-openreach.co.uk/ContactUs.aspx

Where a development affects existing Openreach apparatus in the public highway, the cost of any necessary protection or diversionary works must be borne by the Developer. In this case where a budget estimate is required a Site Plan, Location Map and a covering letter should be forwarded to the Repayments Project Office. Please visit www.openreach.co.uk/alterationscontacts for contact details of the Repayments Office covering the development area.

Yours faithfully,

Openreach newSites

Maps on Demand Plant Information Reply



Property of openreach Not to be resold

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 newar 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 nnhc@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

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KEY TO BT SYMBOLS

	Planned	*Live*
PCP		
Pole		
Box		
Manhole		
Cabinet		

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

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

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

BT Ref : WMO13257N
Map Reference : (centre) TL5578138175
Easting/Northing : (centre) 555781,238175
Scale : 1:1000
Issued : 17/04/2024 13:25:25

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

ELECTRIC

91 Market Street Hoylake Wirral CH47 5AA
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enquiries@cornerstoneprojects.co.uk
www.cornerstoneprojects.co.uk
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Registered in England. Registered Address : Cornerstone Projects Ltd, 91 Market Street, Hoylake, Wirral CH47 5AA

Registered Office:
Newington House
237 Southwark Bridge Road
London SE1 6NP

Registered in England and Wales No: 3870728

Company:
UK Power Networks (Operations) Limited

Our Ref: 33129444 Your Ref: 35803

Wednesday, 17 April 2024

Duncan Phillips
91 Market Street
Hoylake
MSY
CH47 5AA

Dear Duncan Phillips

Thank you for contacting us regarding UK Power Networks equipment at the above site. I have enclosed a copy of our records which show the electrical lines and/or electrical plant. I hope you find the information useful.

I have also enclosed a fact sheet which contains important information regarding the use of our plans and working around our equipment. Safety around our equipment is our number one priority so please ensure you have completed all workplace risk assessments before you begin any works.

Should your excavation affect our Extra High Voltage equipment (6.6 KV, 22 KV, 33 KV or 132 KV), please contact us to obtain a copy of the primary route drawings and associated cross sections.

If you have any further queries do not hesitate to contact us.

Plan Provision
0800 056 5866

Registered Office:
Newington House
237 Southwark Bridge Road
London SE1 6NP

Registered in England and Wales No: 3870728

Company:
UK Power Networks (Operations) Limited

This information is made available to you on the terms set out below. If you do not accept the terms of use set out in this fact sheet please do not use the plans and return them to UK Power Networks.

1. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk.

2. UK Power Networks does not exclude or limit its liability if it causes the death of any person or causes personal injury to a person where such death or personal injury is caused by its negligence.

3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise how for any loss, damage, costs, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.

4. The information about UK Power Networks electrical plant and/or electric lines provided to you belongs to and remains the property of UK Power Networks. You must not alter it in any respect.

5. The information provided to you about the electrical plant and/or electric lines depicted on the plans may NOT be a complete record of such apparatus belonging to UK Power Networks. The information provided relates to electric lines and/or electrical plant belonging to UK Power Networks that it believes to be present but the plans are not definitive: other electric lines and/or electrical plant may be present and that may or may not belong to UK Power Networks.

6. Other apparatus not belonging to UK Power Networks is not shown on the plan. It is your responsibility to make your own enquiries elsewhere to discover whether apparatus belonging to others is present. It would be prudent to assume that other apparatus is present.

7. You are responsible for ensuring that the information made available to you is passed to those acting on your behalf and that all such persons are made aware of the contents of this letter.

8. Because the information provided to you may not be accurate, you are recommended to ascertain the presence of UK Power Networks electric lines and/or electrical plant by the digging of trial holes. Trial holes should be dug by hand only.

   Excavations must be carried out in line with the Health and Safety Executive guidance document HSG 47. We will not undertake this work. A copy of HSG 47 can be obtained from the Health and Safety Executives website.

   All electric lines discovered must be considered LIVE and DANGEROUS at all times and must not be cut, resited, suspended, bent or interfered with unless specially authorised by UK Power Networks.

   The electric line and electrical plant belonging to UK Power Networks remains so even when made dead and abandoned and any such electric line and/or electrical plant exposed shall be reported to UK Power Networks.

   Where your works are likely to affect our electric lines and/or electrical plant an estimate of the price of any protective /diversionary works can be prepared by UK Power Networks Branch at Metropolitan House, Darkes Lane, Potters Bar, Herts. , EN6 1AG, telephone no. 0845 2340040

Registered Office:
Newington House
237 Southwark Bridge Road
London SE1 6NP

Registered in England and Wales No: 3870728

Company:
UK Power Networks (Operations) Limited

9 Any work near to any overhead electricity lines must be carried out by you in accordance with the Health and Safety Executive guidance document GS6 and the Electricity at Work Regulations.

The GS6 Recommendations may be purchased from HSE Books or downloaded from the Energy Networks Association's website.

If given a reasonable period of prior notice UK Power Networks will attend on site without charge to advise how and where "goal posts" should be erected. If you wish to use this service, in the first instance please telephone: 0845 6014516 between 08:30 and 17:00 Monday to Friday.

10. You are responsible for the security of the information provided to you. It must not be given, sold or made available upon payment of a fee to a third party.

11. If in carrying out work on land in, on, under or over which is installed an electric line and/or electrical plant that belongs to UK Power Networks you and/or anyone working on your behalf damages (however slightly) that apparatus you must inform immediately UK Power Networks by our emergency 24 hour three digit telephone number **105** providing;

- your name, address and telephone number;
- the date, time and place at which such damage was caused;
- a description of the electric line and/or electrical plant to which damage was caused;
- the name of the person whom it appears to you is responsible for that damage;
- the nature of the damage.

12. The expression "UK Power Networks" includes UK Power Networks (EPN) plc, UK Power Networks (LPN) plc, UK Power Networks (SEPN) plc, UK Power Networks and any of their successors and predecessors in title.



Dig Sites Area: Line:

The quality and accuracy of any print will depend on your printer, your computer and its print settings. Measurements scaled from this plan may not match measurements between the same points on the ground.

This plan must be used with the attached 'Symbols' document.

Date Requested: 17/04/2024
Job Reference: 33129444
Site Location: 555451 237912
Requested by:
Mr Duncan Phillips
Your Scheme/Reference: 35803

Scale: 1:3075 (When plotted at A3)

1. The position of the apparatus shown on this drawing is believed to be correct but the original landmarks may have been altered since the apparatus was installed.
2. The exact position of the apparatus should be verified - use approved cable avoidance tools prior to excavation using suitable hand tools.
3. It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks until the exact location of all the cables have been determined.
4. It must be assumed that there is a service cable into each property, lamp column and street sign, etc.
5. All cables must be treated as being live unless proved otherwise by UK Power Networks.
6. The information proved must be given to all people working near UK Power Networks plant and equipment. Do not use plans more than 3 months after the issue date for excavation purposes.
7. Please be aware that electric cables/lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.

1. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk.
2. UK Power Networks does not exclude or limit its liability if it causes the death of any persons or causes personal injury to a person.
3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise for any loss, damage, cost, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.
4. This plan has been provided to you on the basis of the terms of use set out in the covering letter that accompanies this plan. If you do not accept and/or do not understand the terms of use set out in the covering letter you must not use the plan and must return it to the sender of the letter.
5. You are responsible for the security of the information provided to you. It must not be given, sold or made available upon payment of a fee to a third party.

N W E S

UK Power Networks

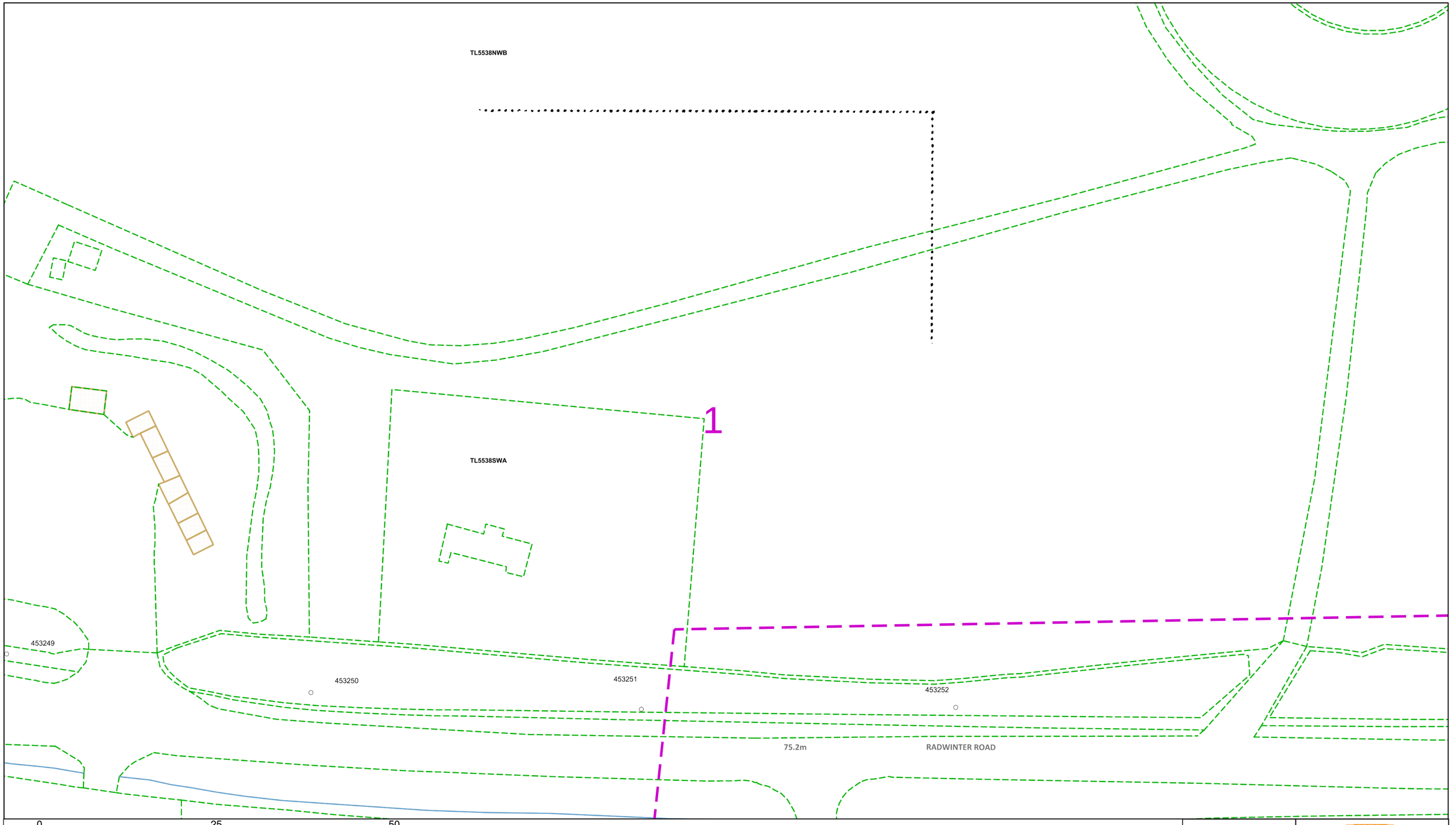
IF IN DOUBT - ASK!
PHONE 0800 056 5866
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0 25 50
metres

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Date Requested: 17/04/2024
Job Reference: 33129444
Site Location: 555451 237912
Requested by:
Mr Duncan Phillips
Your Scheme/Reference: 35803

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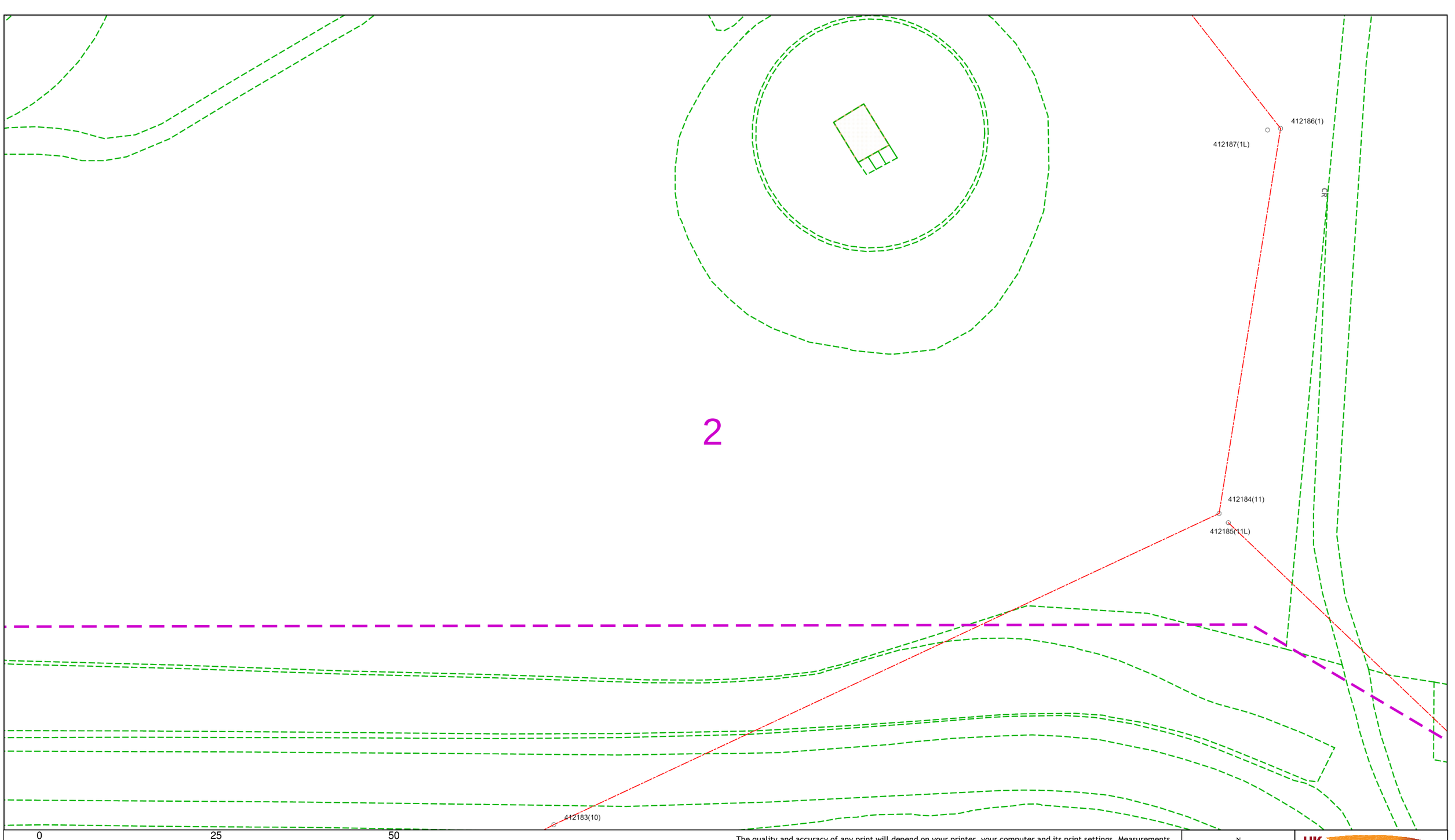
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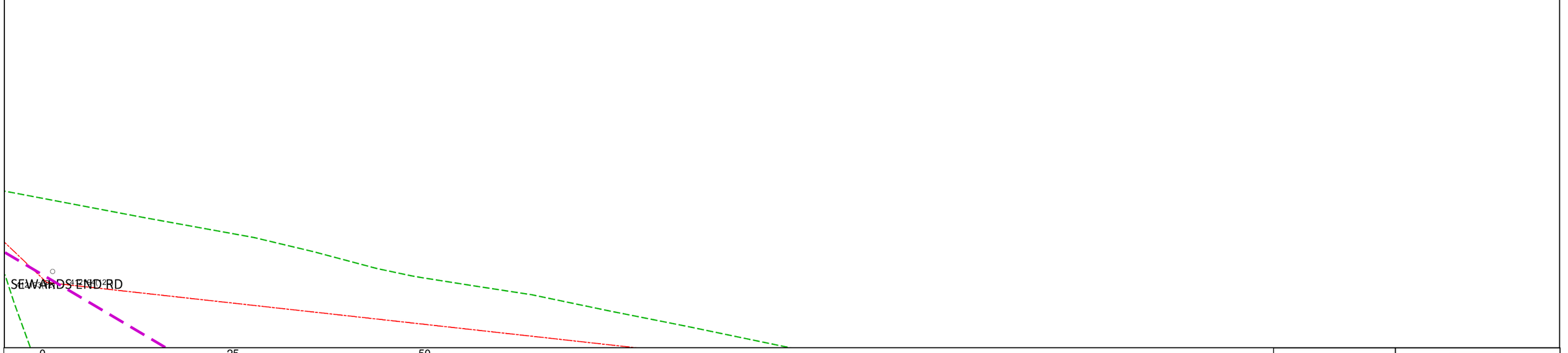
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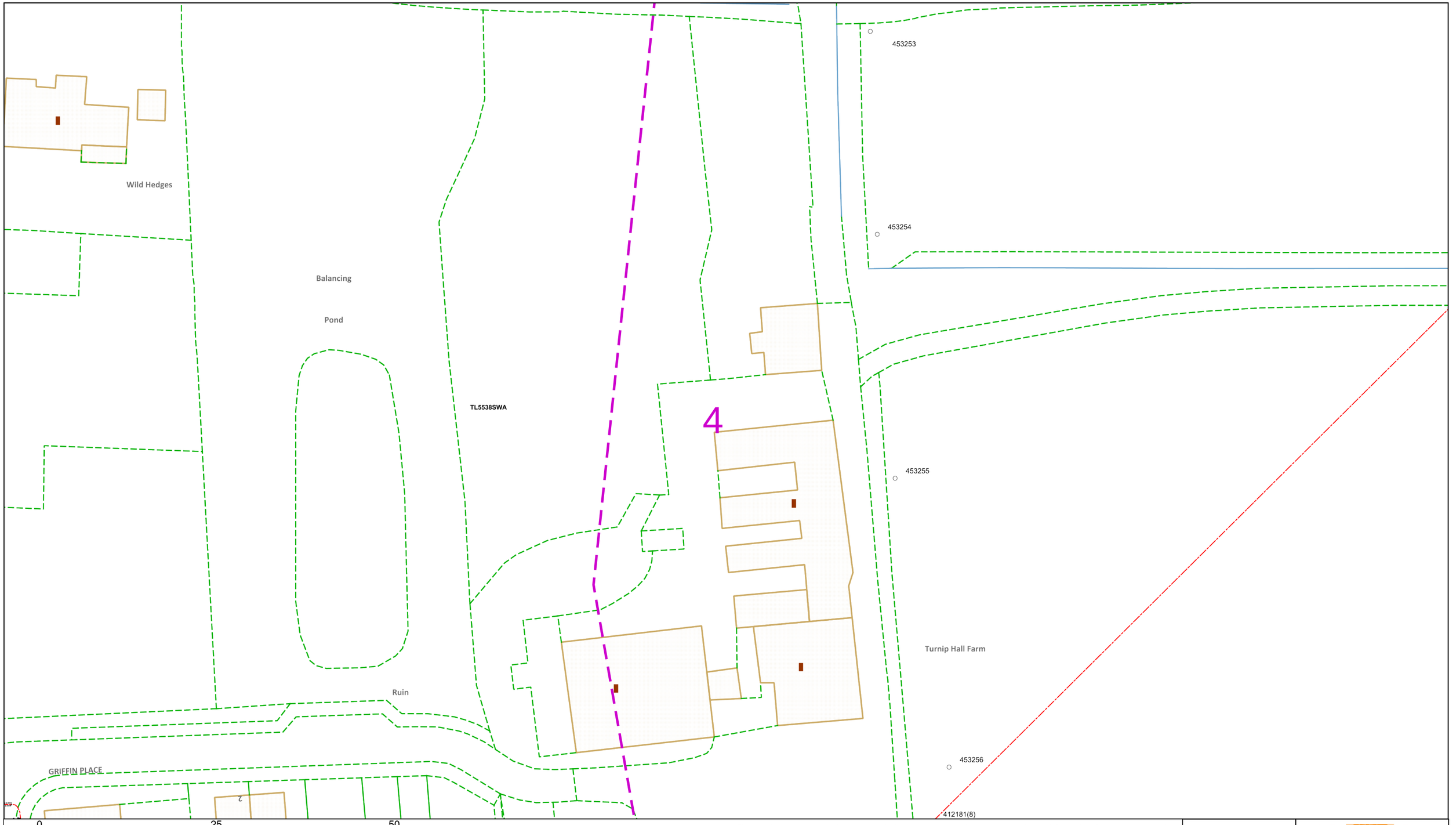
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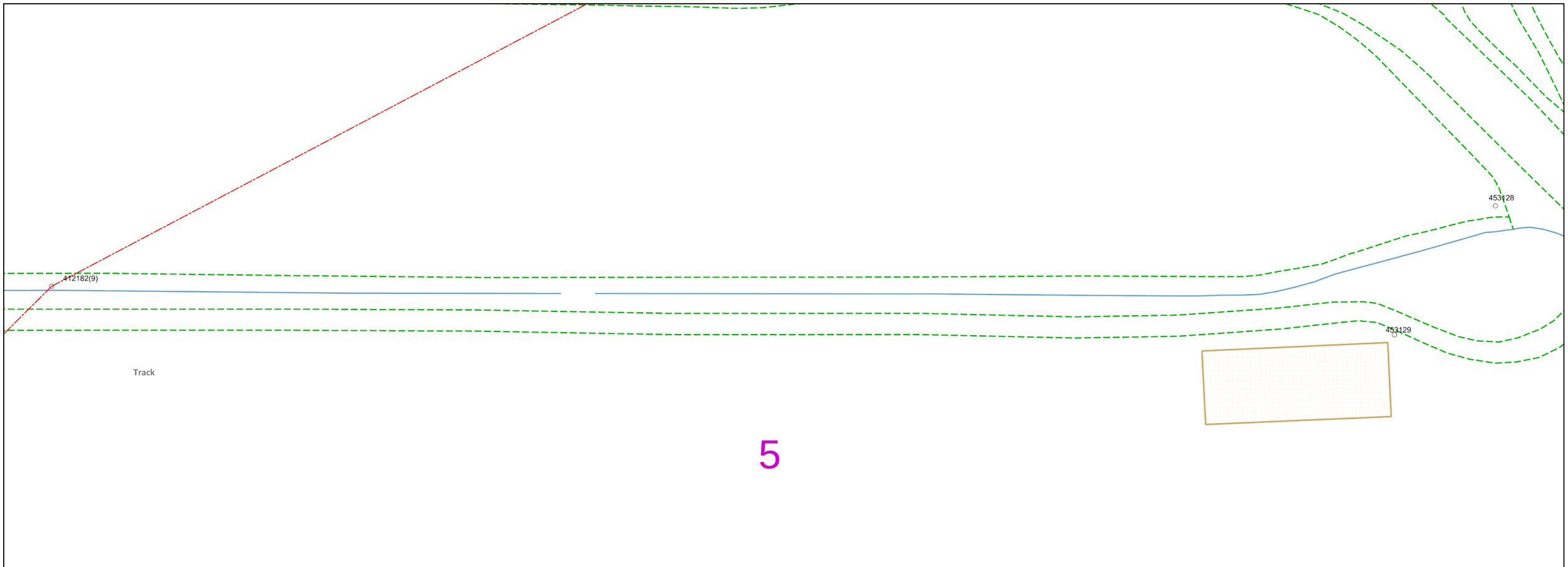
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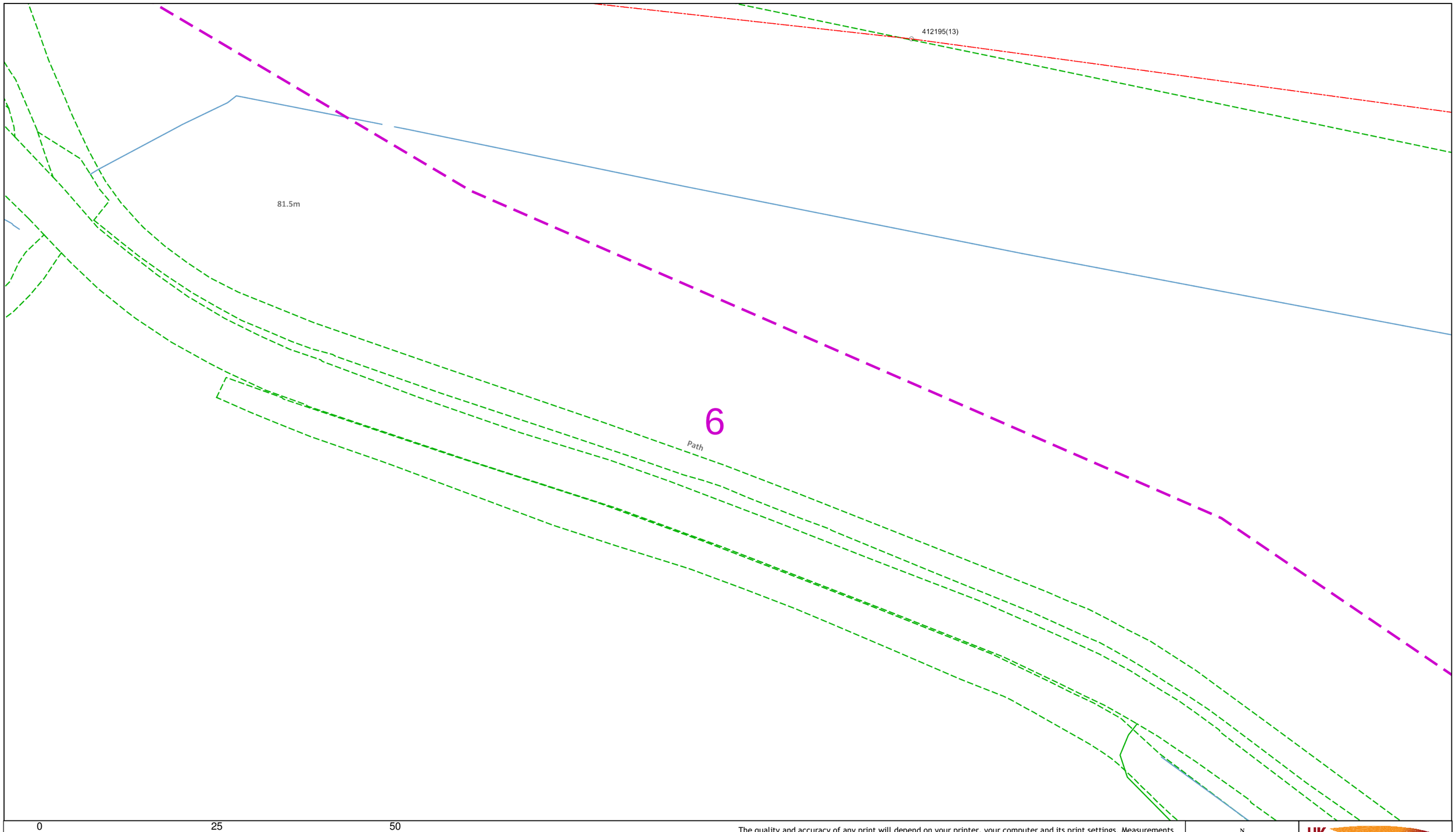
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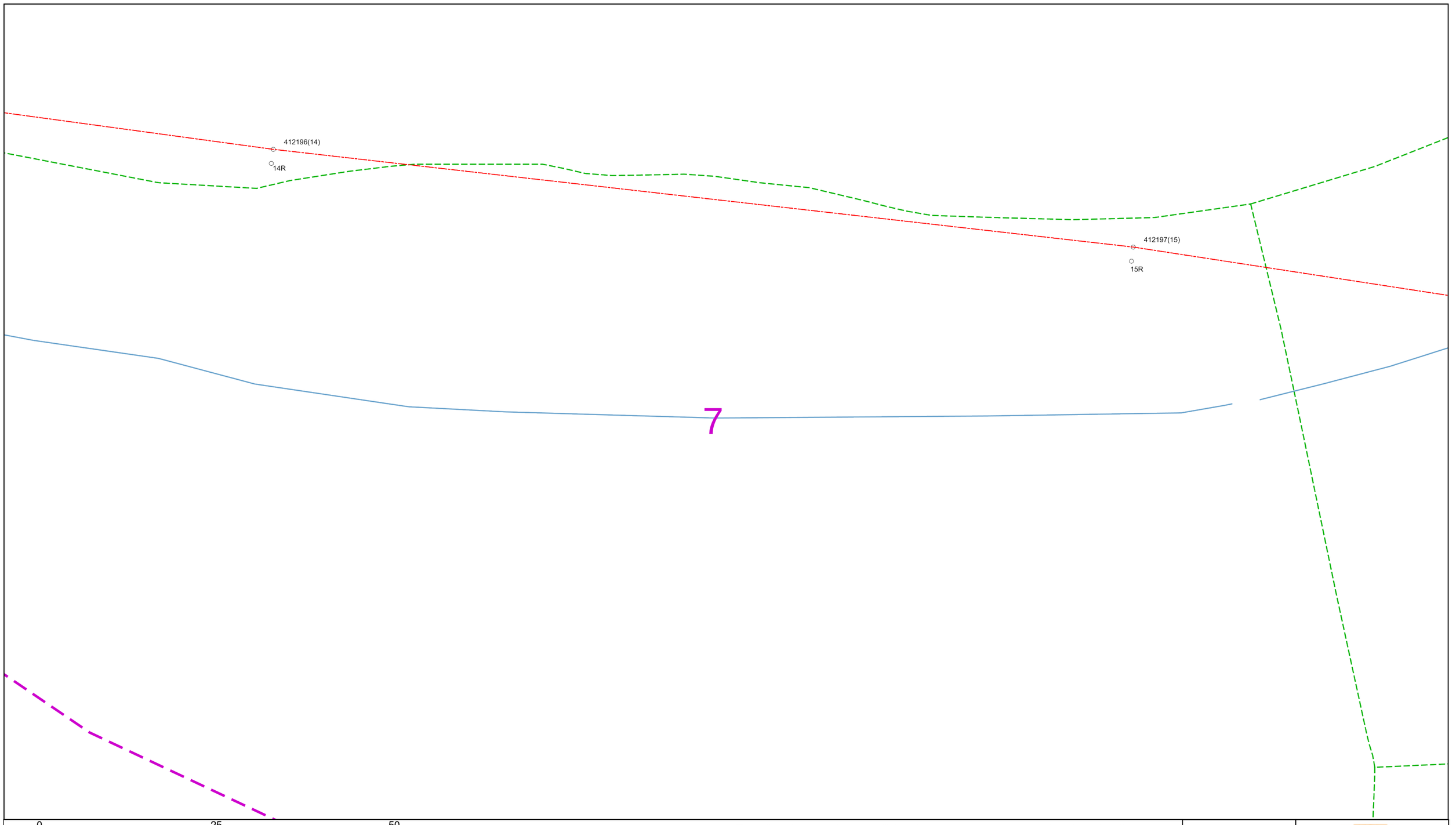
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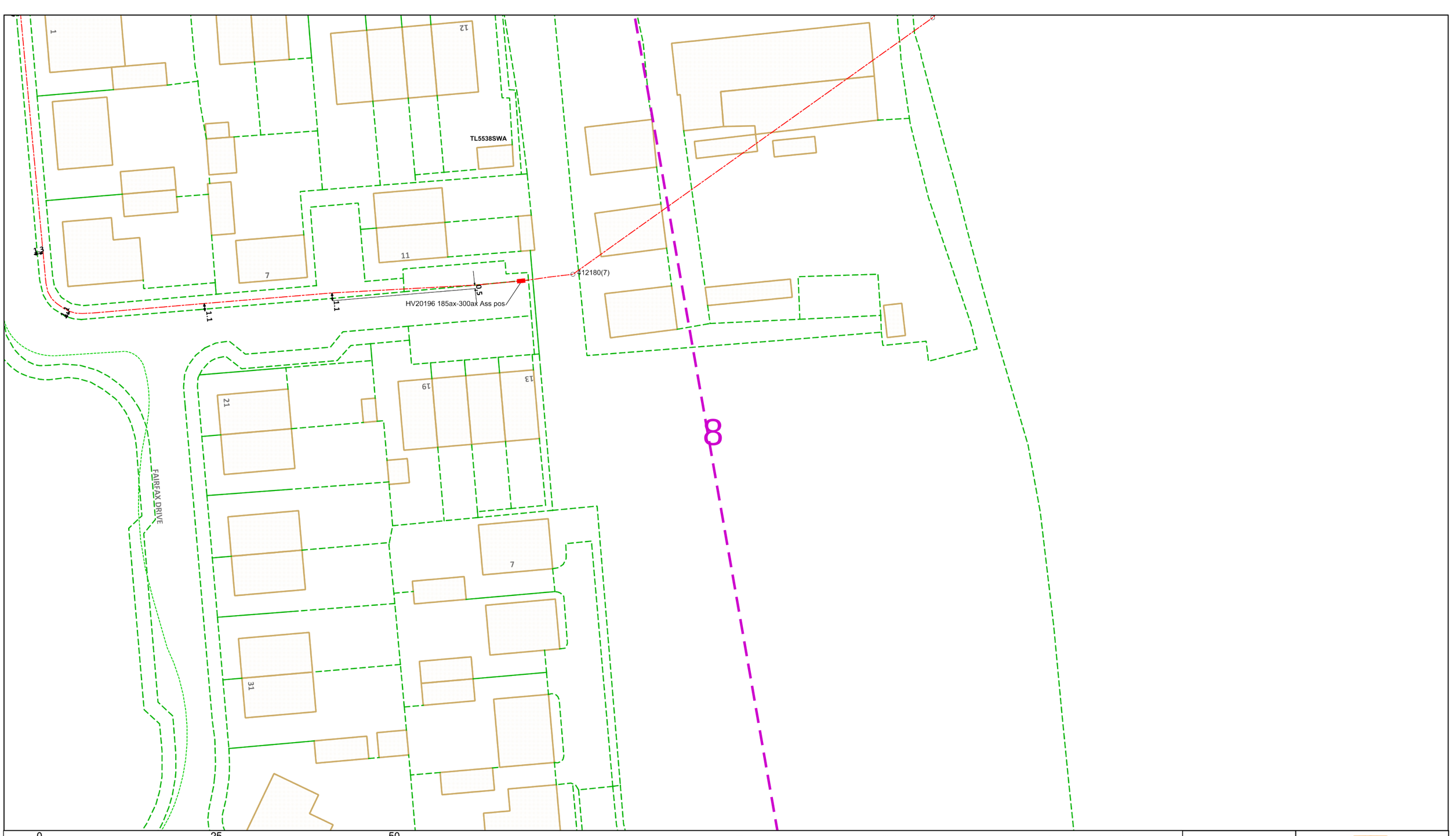
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UK Power Networks

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PHONE 0800 056 5866
EMERGENCY – If you damage a cable or line
Phone 0800 783 8838
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9

0 25 50

metres

Dig Sites Area: Line:

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Date Requested: 17/04/2024
Job Reference: 33129444
Site Location: 555451 237912
Requested by:
Mr Duncan Phillips
Your Scheme/Reference: 35803

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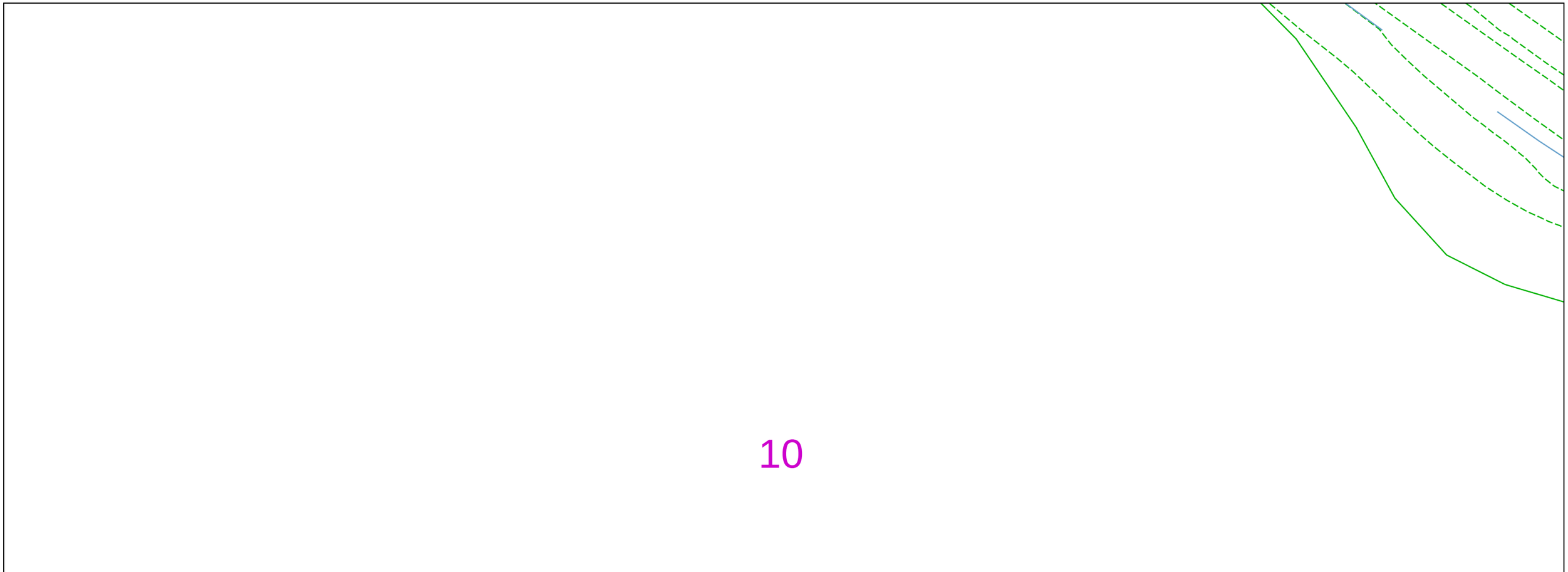
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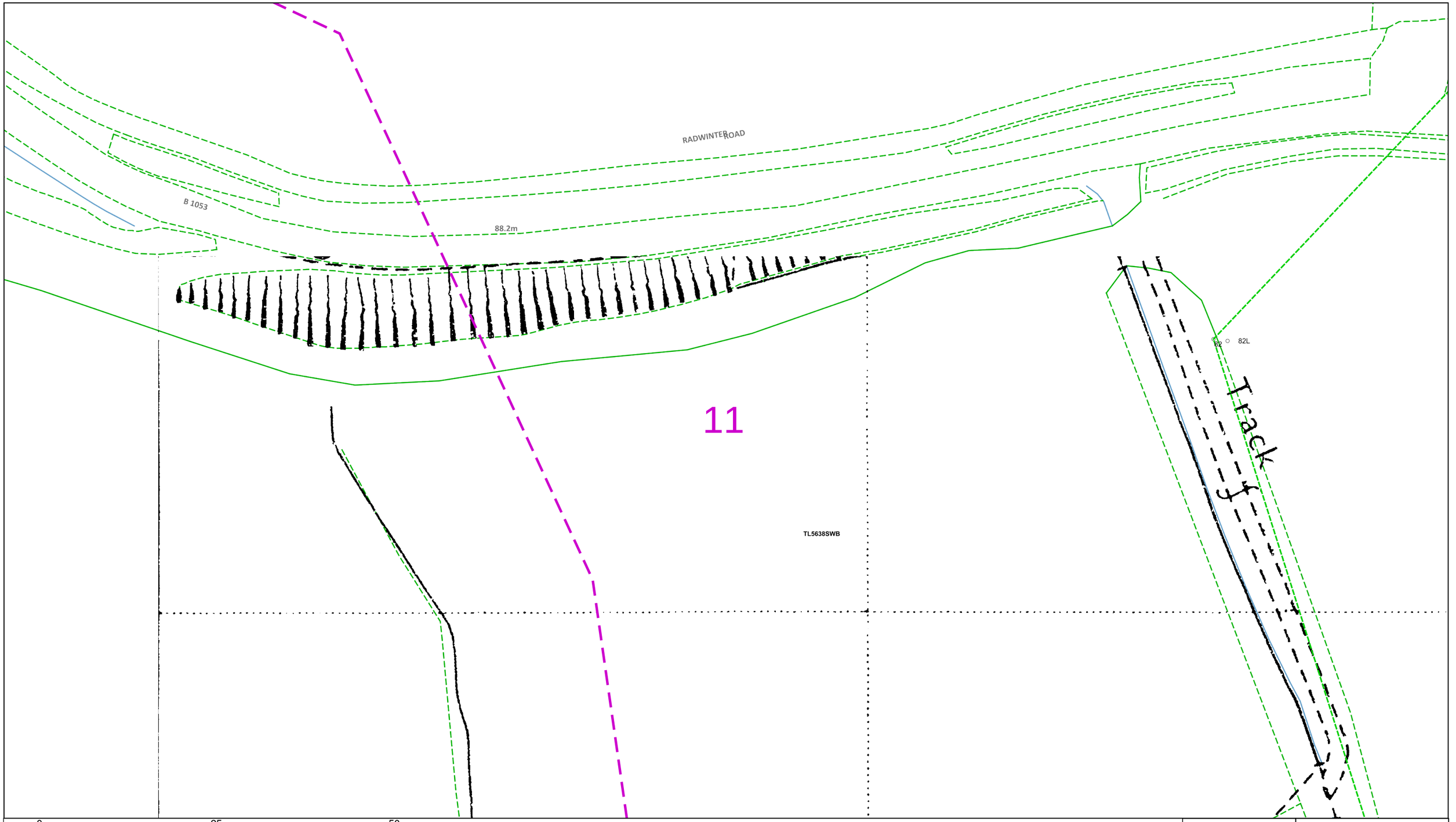
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0 25 50
metres

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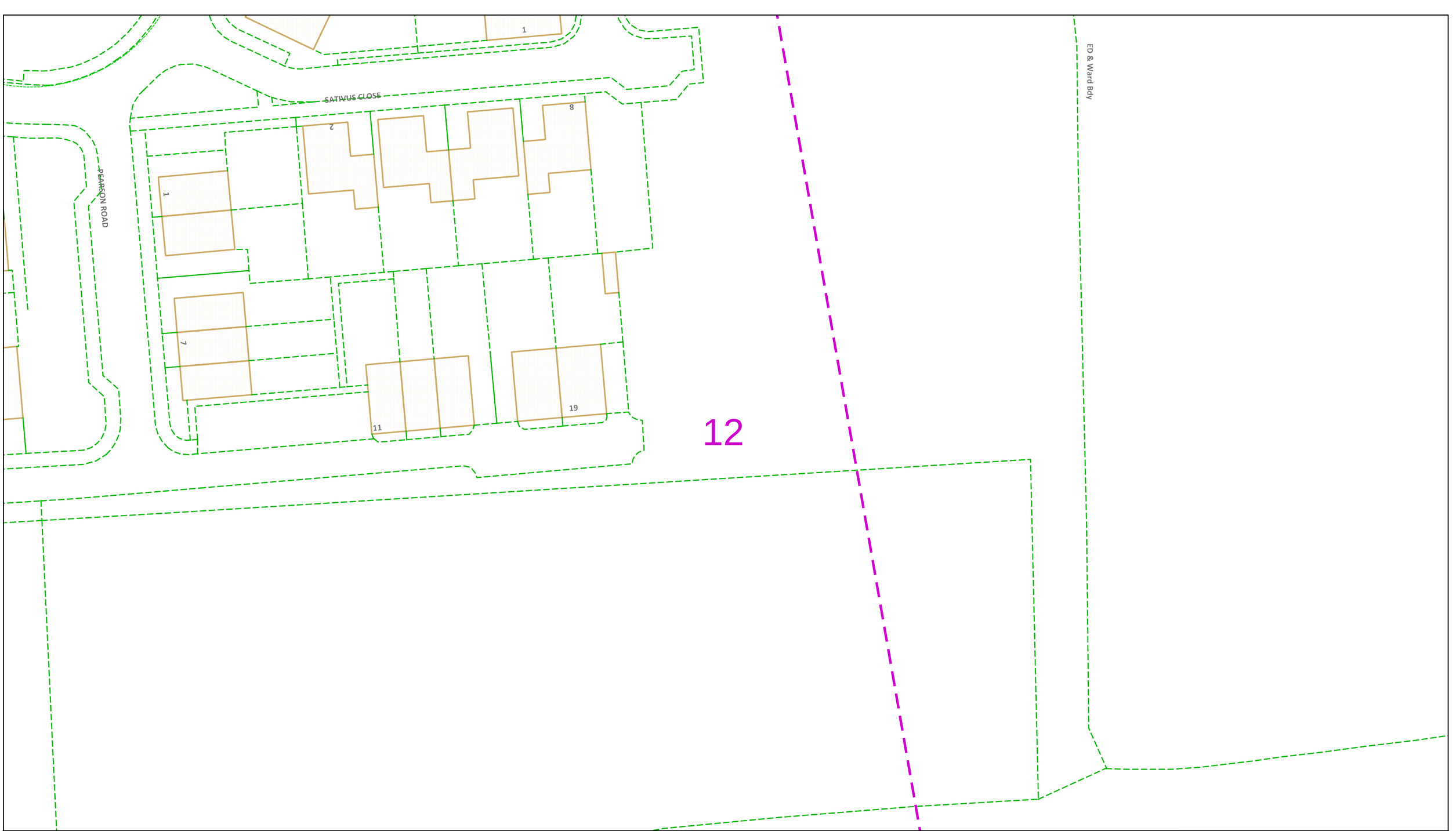
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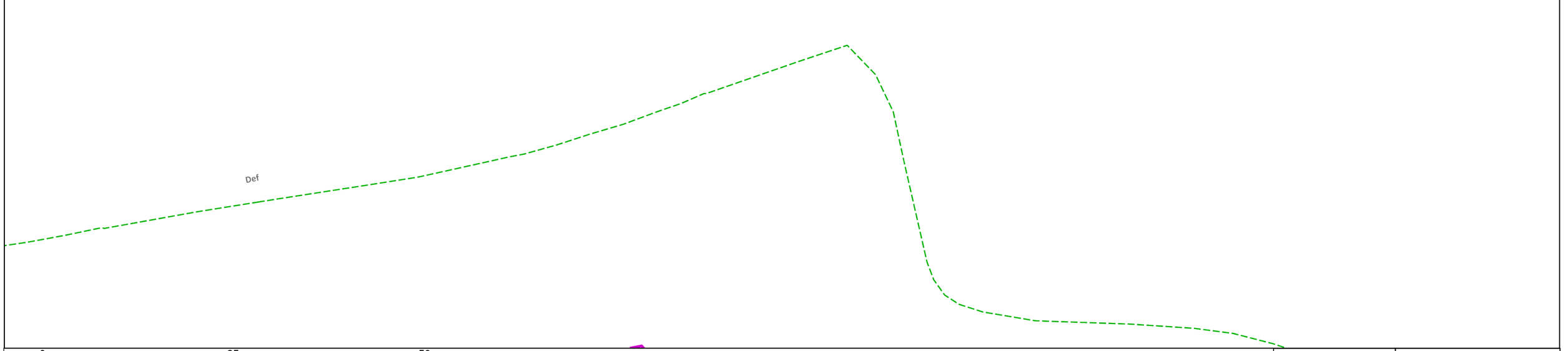
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13



0 25 50

metres

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14

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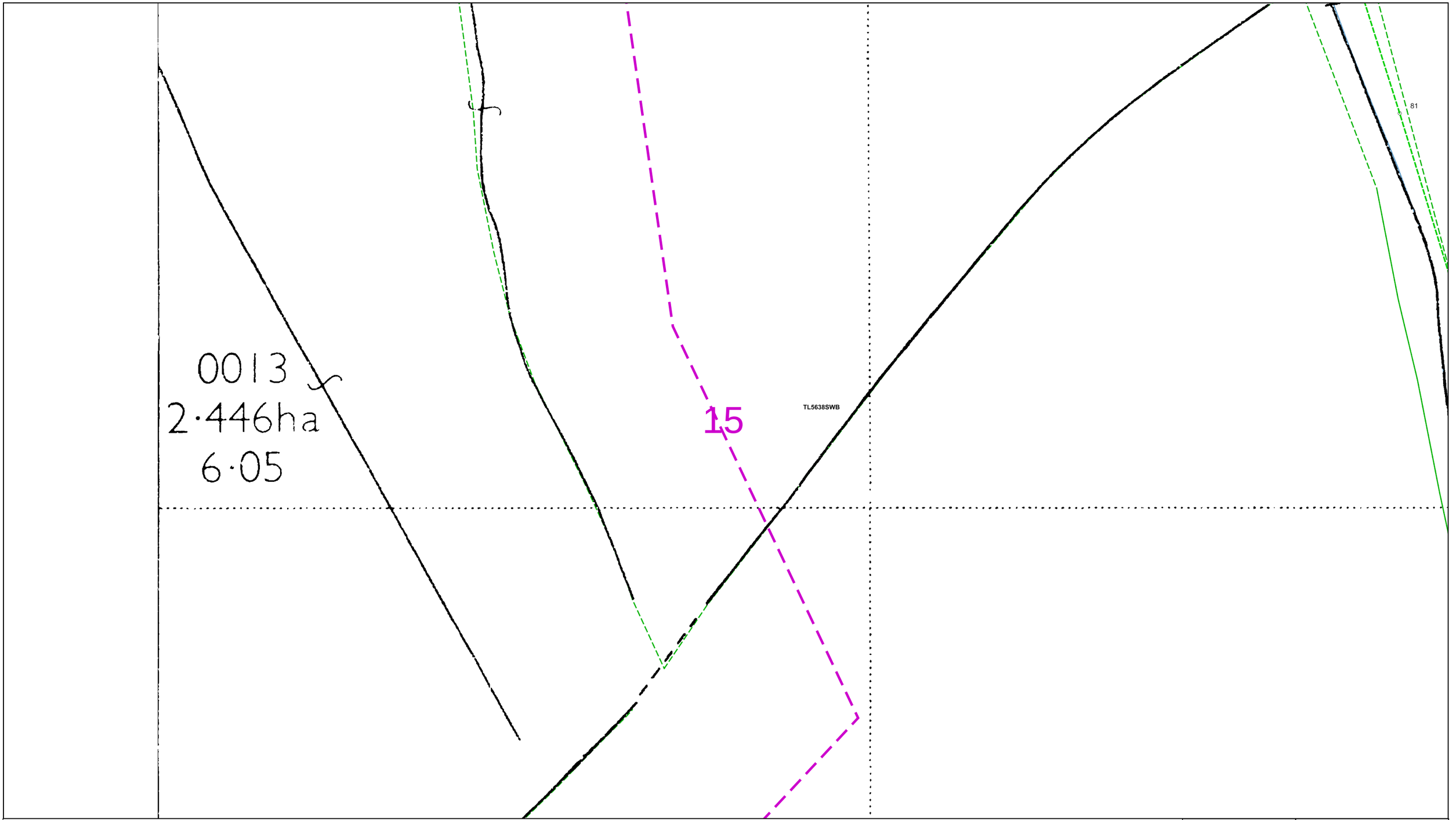
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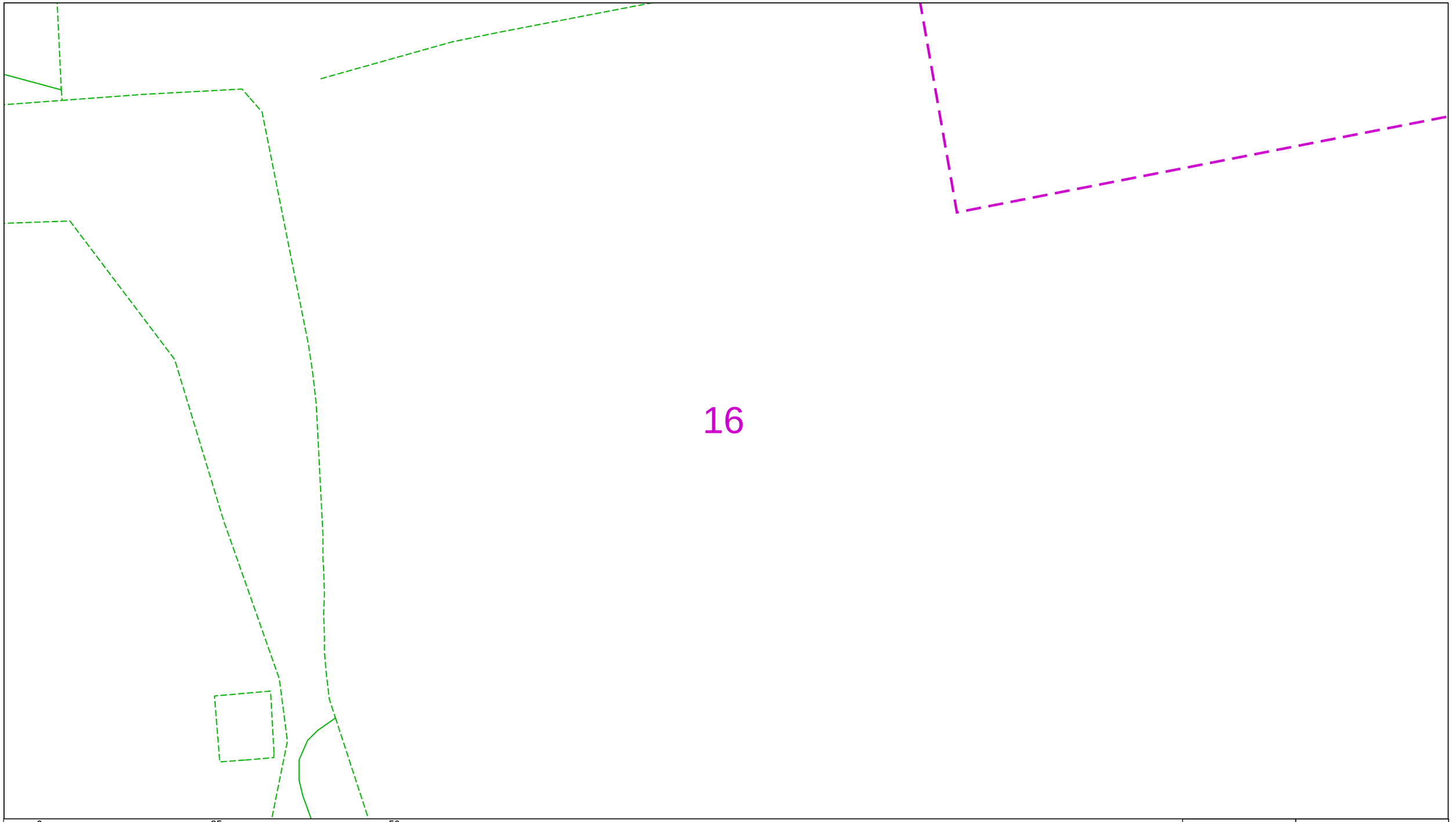
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0 25 50

metres

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Date Requested: 17/04/2024
Job Reference: 33129444
Site Location: 555451 237912
Requested by:
Mr Duncan Phillips
Your Scheme/Reference: 35803

Scale: 1:500 (When plotted at A3)

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N W E S

UK Power Networks

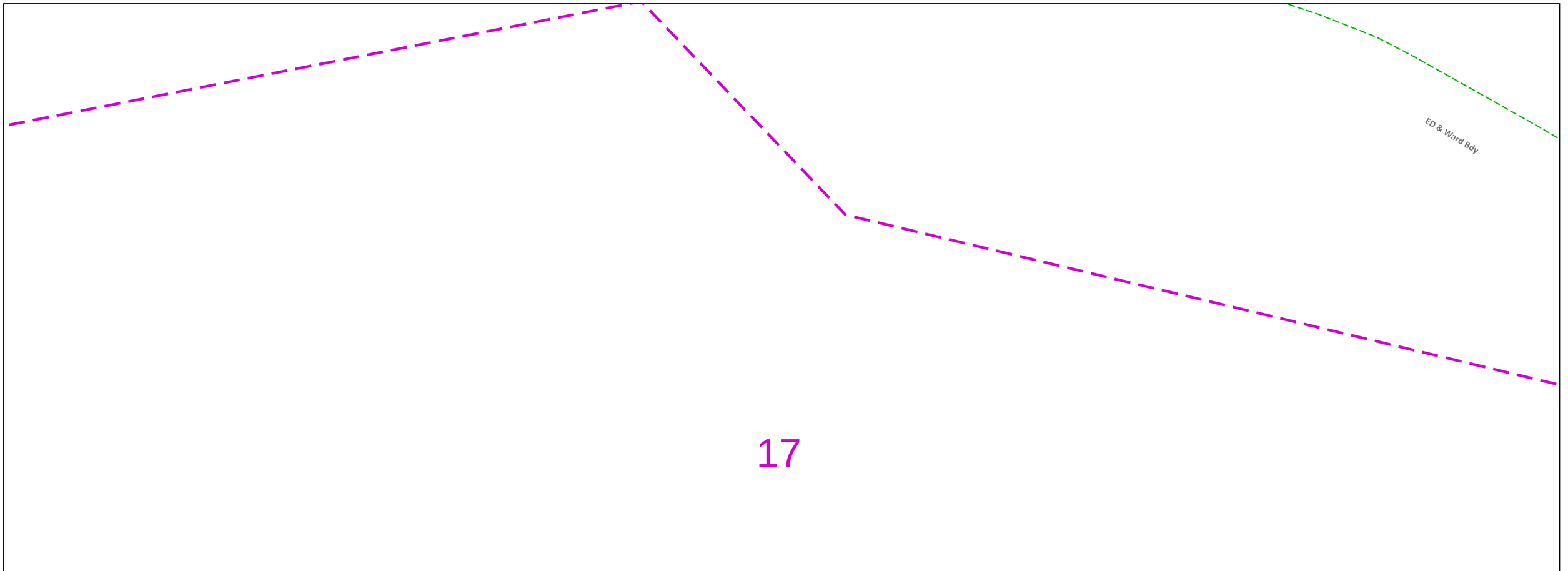
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0 25 50

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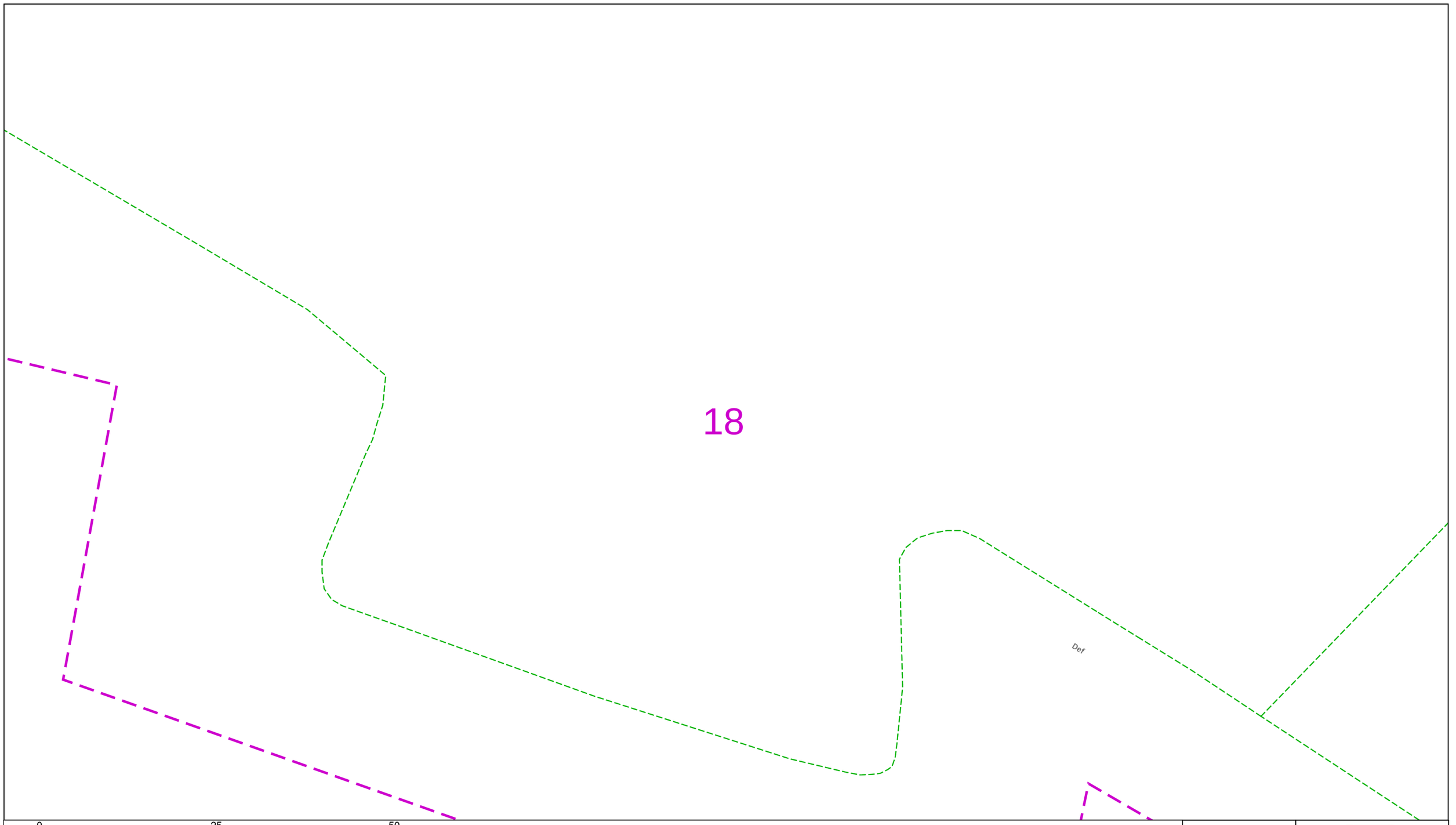
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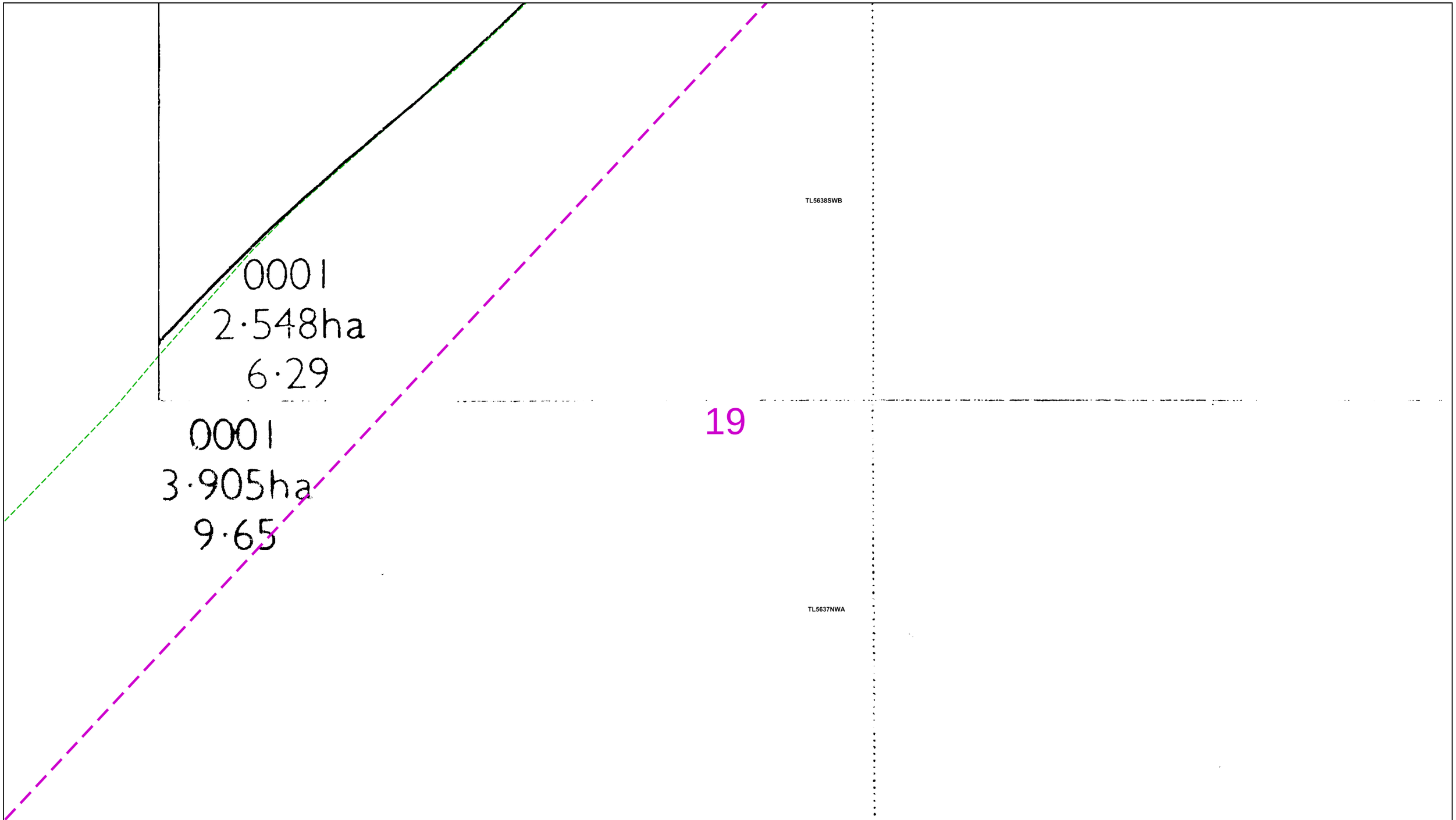
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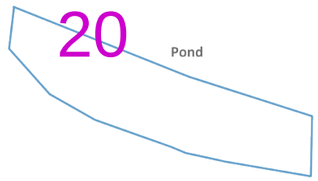
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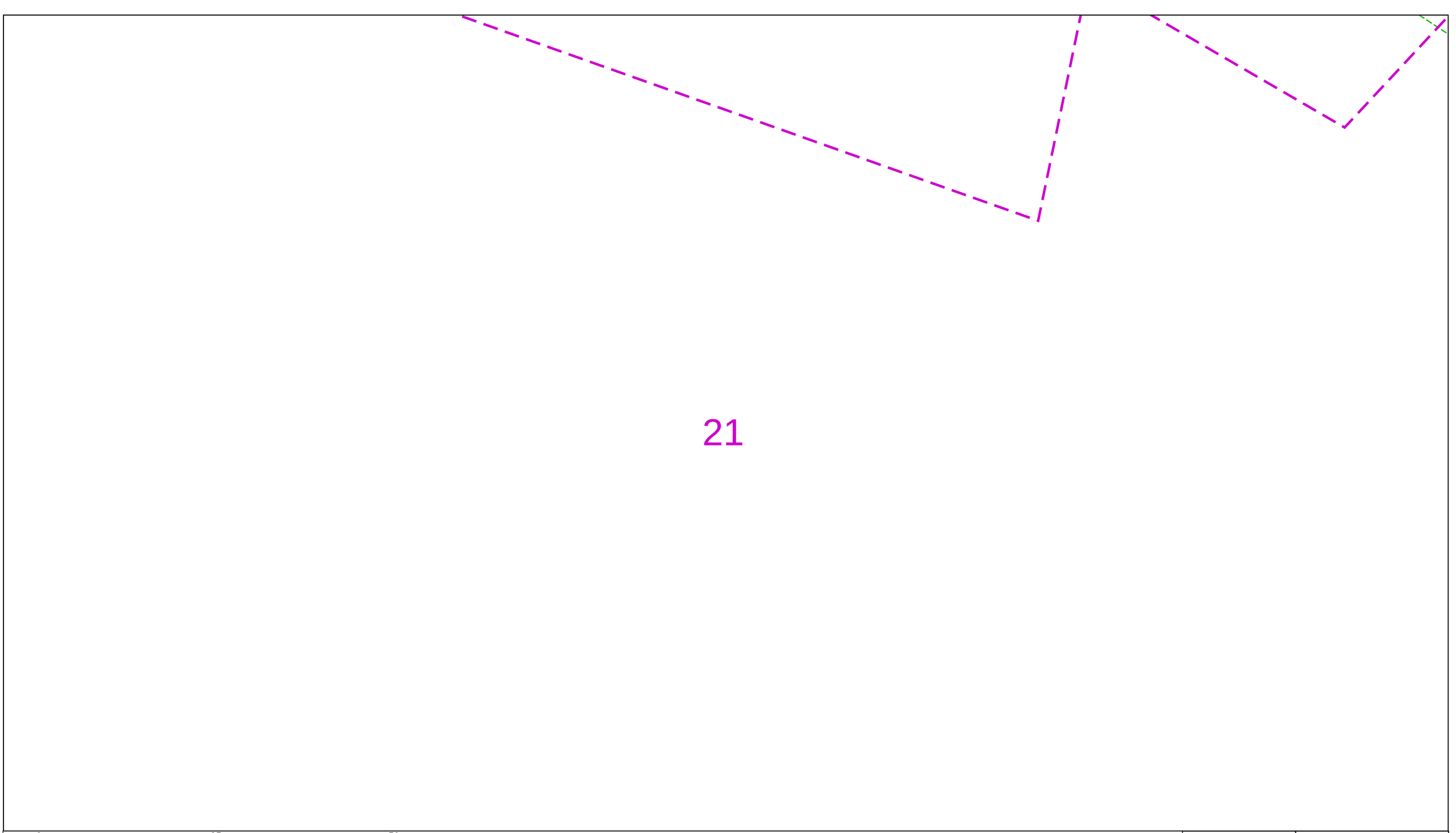
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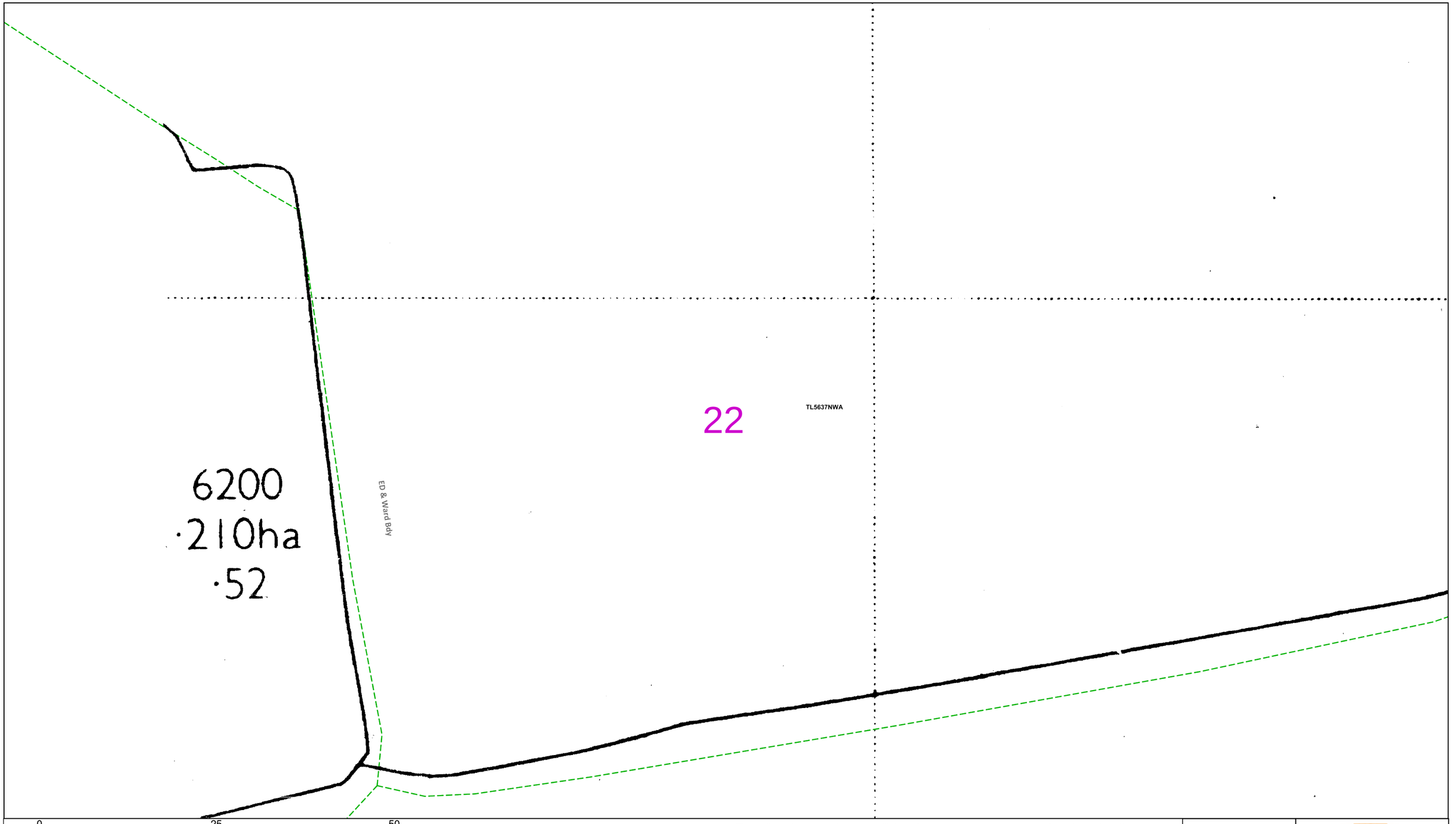
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UK Power Networks Feedback Tool

Please help UK Power Networks improve the accuracy of their network records and help make it safer for all those working around them in future.

All you need to do is:

1. Use your phone camera to scan the QR code:
2. Provide feedback on what you have found on site (good or bad)
3. Upload a photo if needed

Thank you for making the area a safer place to dig.

UK Power Networks, working with LSBUD

s0

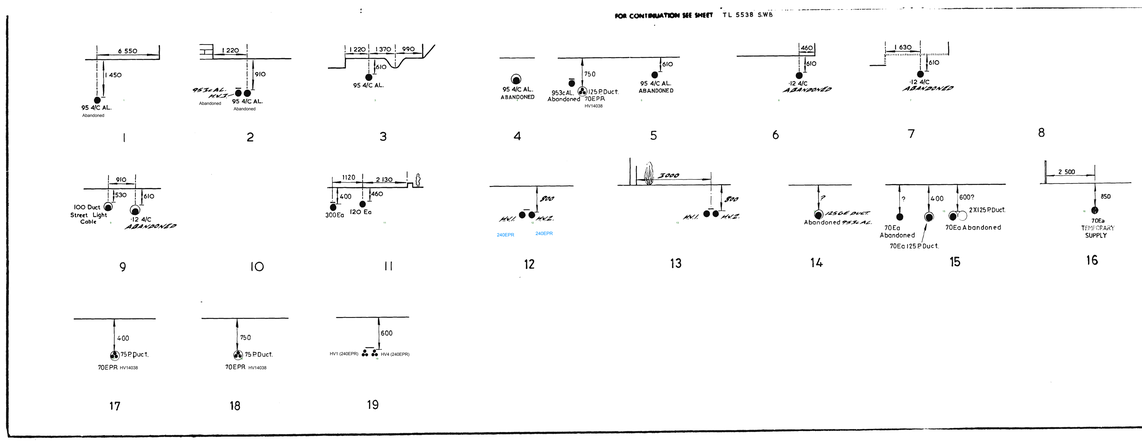
TL5538SWA 1:500 LV

FOR CONTINUATION SEE SHEET TL 5438 SEA

FOR CONTINUATION SEE SHEET TL 5538 NWB

FOR CONTINUATION SEE SHEET TL 5538 SWB

TL 5538 SWA



PILOT CABLES AND HIGH VOLTAGE CABLES

Serial numbers refer to this sheet only and lengths are to sheet edge

No.	kV	Size	Cores	Designation	Lengths metres	Lengths yards
				Total length		

No	kV	Size	Cores	Designation	Lengths metres	Lengths yards
1	11	150 AL 240EPR	3	HART HOUSE -TESCO RADWINTER RD		
2	11	300AL 240EPR	3	ACROWS PRIMARY-SHIRE HILL NORTH		
HV14038	11	(25.1mm Dia 3x240 sq.mm)	3c	RADWINTER ROAD HOUSING - HV POLE 8		
4	11	240EPR	3x3/C	TESCOS RADWINTER RD - FAIRVIEW ESTATE		
HV11001	11	300sq mm	3x1c	TEE TO ASHDON ROAD (ENG)		
HV15289	11	300 sq mm	3x1c	RADWINTER ROAD (ENG TO LEVERETT WAY (ENG		
HV15290	11	300sq mm	3x1c	TEE OFF HV15289 TO POLE 4		
HV20196	11	300sq mm 300 sq.m	3x1c	LEVERETT WAY (ENG TO POLE 7		
				Total length		

NOTES (1) FOR FULL DETAILS OF 33 kV CABLES REFERENCE SHOULD BE MADE TO THE PRIMARY RECORDS
(2) E DENOTES CNE CABLE x DENOTES ALPEX TYPE

Underground oil pipeline operated by BPA Ltd in this area.
For approximate route and conditions refer to BPA route maps and guidance notes.
Precise positions are subject to on-site location by BPA staff.

DIMENSIONS IN MILLIMETRES

REPRODUCED FROM OR BASED UPON THE ORDNANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M. STATIONERY OFFICE.
CROWN COPYRIGHT RESERVED

SERVICES
FOR DETAILS OF SERVICE CABLE REFERENCE SHOULD BE MADE TO THE SERVICE CARDS IN THE DISTRICT OFFICE

eastern electricity

1 : 500 SCALE U/G MAINS

LOCATION SAFFRON WALDEN

SHEET NO.	ISSUE	DATE
TL5538SWA.s0	A	22-05-03

TL 5637 NW A

1:500 AT

S0

FOR CONTINUATION SEE SHEET

PILOT CABLES AND HIGH VOLTAGE CABLES

Serial numbers refer to this sheet only and lengths are to sheet edge

No.	kV	Size	Cores	Designation	Lengths metres	Lengths yards	No	kV	Size	Cores	Designation	Lengths metres	Lengths yards
				Total length							Total length		

NOTES (1) FOR FULL DETAILS OF 33 kV CABLES REFERENCE SHOULD BE MADE TO THE PRIMARY RECORDS
(2) E DENOTES CNE CABLE A DENOTES ALPEX TYPE

eastern electricity

1 : 500 SCALE U/G MAINS

LOCATION

DIMENSIONS IN MILLIMETRES

REPRODUCED FROM OR BASED UPON THE ORDNANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M. STATIONERY OFFICE
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SERVICES
FOR DETAILS OF SERVICE CABLE REFERENCE SHOULD BE MADE TO THE SERVICE CARDS IN THE DISTRICT OFFICE

SHEET NO. TL 5637 NW A
SUPPLEMENTARY SHEET NO.

ISSUE

DATE

S0
1:500 LV
TL5638SWB

FOR CONTINUATION SEE SHEET TL5638SW.A

FOR CONTINUATION SEE SHEET TL5638SE.B.

FOR CONTINUATION SEE SHEET TL5638SE.A.

FOR CONTINUATION SEE SHEET TL5637 NW.A.

PILOT CABLES AND HIGH VOLTAGE CABLES

Serial numbers refer to this sheet only and lengths are to sheet edge

No.	kV	Size	Cores	Designation	Lengths metres	Lengths yards	No.	kV	Size	Cores	Designation	Lengths metres	Lengths yards

Network Records NetMAP Symbols Booklet - East of England

This symbol booklet is intended as a general guide only - some local variations of these symbols may be found.

Version 1.2

Released October 2010

Always check with your local Network Records office or the UK Power Networks server to ensure that you are using the most up to date copy of this booklet - Tel: 08000 565866.

Index:-

Page no:		Contents:
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2	.....	The area covered by this guide.
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	.....	Scenery.
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7	.....	Primary distribution cables (EHV).
8	.....	Secondary distribution cables (HV/LV).
9	.....	Service cables/terminations.
10	.....	Cable ducts.
11	.....	EHV/HV/LV sites.
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23	LV network diagram view (UK Power Networks use only).	
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24	.....	Underground cables.
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26	.....	Substations/pole transformers.

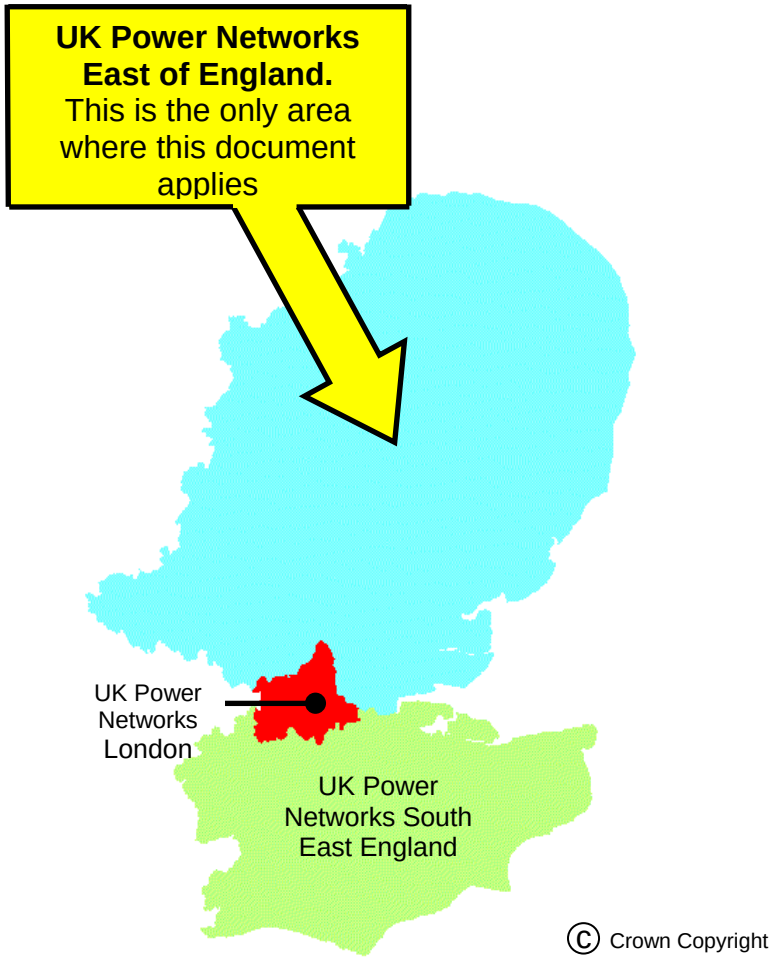
Guidance notes.

Important notice:
If you do not understand the NetMAP record that you are using, please contact the UK Power Networks Network Records team for guidance
Tel: 08000 565866.

- The position of apparatus shown on NetMAP is believed to be correct, but the original landmarks may have altered since the apparatus was installed.
- It must be assumed that there is at least one service to each property, lamp column, street sign etc.
- All cables must be treated as live, unless proven otherwise by an authorised UK Power Networks representative.
- Third party cables are not usually shown. In cases of doubt, please telephone 08000 565866.
- When two or more maps are supplied for the same area, the maps must be read in conjunction with each other and with this symbol document.
- All LV cables are assumed to be 4 core, and all HV cables assumed to be 3 core unless otherwise stated.

Plan Provision Team
Fore Hamlet
Ipswich
Suffolk IP3 8AA
Tel: 08000 565866

The area covered by this guide:



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1:500 view - underground network

Scenery

NetMAP system	Scanned image	Description
		100 metre Ordnance Survey grid line (on O/S based maps only.)
		Property fence line
		Building line
		Kerb line
		Electrical Boundary

Scenery - for UK Power Networks use only - boxed in red

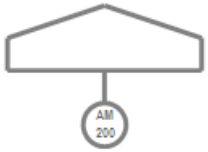
NetMAP system	Scanned image	Description
 Inset Network – Contact xxxx IDNO for further information	Not applicable	Area of inset network - not the asset of UK Power Networks (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Proposed Cross Rail route (only visible to UK Power Networks and their immediate contractors)
	Not applicable	High pressure pipelines in the general vicinity (only visible to UK Power Networks and their immediate contractors)

Note: Pipelines are only viewable on NetMAP by UK Power Networks staff and their immediate contractors. Do not carry out any excavation without consent from the relevant agency - legally protected high pressure petroleum products pipeline route in the general vicinity - consult www.linewatch.co.uk for contacts and guidance. Pipeline contact numbers can also be found on the intranet – out of hours, contact our Control Centre.

	Not applicable	Water - surface water (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Water - Source Protection Zone 1 (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Water - Source Protection Zone 2 (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Water - Source Protection Zone 3 (only visible to UK Power Networks and their immediate contractors)

section continued on next page

Scenery for UK Power Networks use only - boxed in red

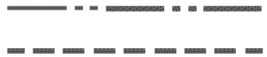
NetMAP system	Scanned image	Description
	Not applicable	Historical - Scheduled Monuments (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Historical - Parks and Gardens (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Historical - Areas of Archaeological Potential (AAP) (only visible to E UK Power Networks and their Immediate contractors)
	Not applicable	Nature - Ramsar Wetlands of International Importance (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Nature - Special Area of Conservation (SAC) (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Nature - Special Protected Area (SPA) (only visible to UK Power Networks and their immediate contractors)
		Nature - Site of Special and Scientific Interest (SSSI) (only visible to UK Power Networks and their immediate contractors)

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Scenery for UK Power Networks use only - boxed in red

NetMAP system	Scanned image	Description
	Not applicable	Nature - Local Nature Reserve (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Nature - National Nature Reserve (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Nature - Area of Outstanding Natural Beauty (AONB) (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Nature - National Park (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Fluid filled cables - very high sensitivity (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Fluid filled cables - high sensitivity (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Fluid filled cables - medium sensitivity (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Fluid filled cables - low sensitivity (only visible to UK Power Networks and their immediate contractors)

Primary distribution cables (1:500 view)

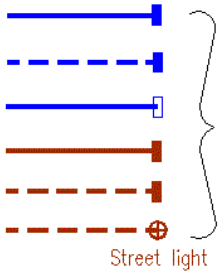
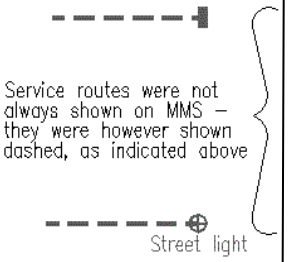
NetMAP system	Scanned image	Description
		Over 33kV and up to 132kV
		Over 11kV and up to 33kV

Secondary distribution cables (1:500 view)

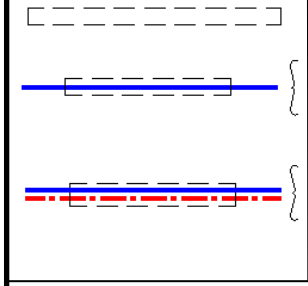
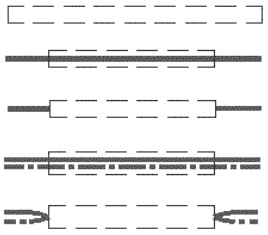
NetMAP system	Scanned image	Description
		Over 230/400V and up to 11kV (HV) cable route
		230/400V (LV) cable route
	(Only shown this way if independent from HV cable route)	Pilot cable route

Abandoned cables are shown and labelled as such when applicable

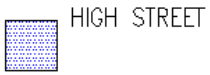
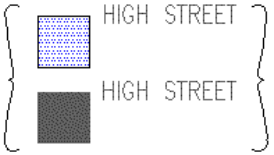
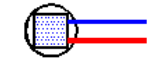
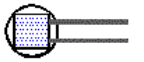
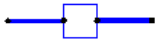
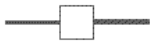
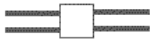
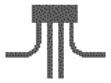
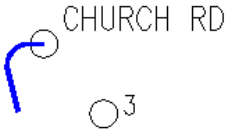
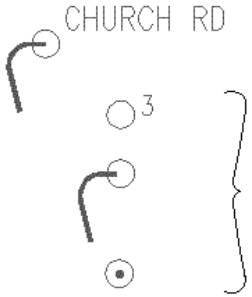
Service cables and terminations (1:500 view)

NetMAP system	Scanned image	Description
		3 phase service with termination 3 phase service with termination (unknown route) 3 phase service with multi-head termination Single phase service with termination Single phase service with termination (route unknown) Street lighting cable and termination

Cable ducts (1:500 view)

NetMAP system	Scanned image	Description
		Empty duct Cable(s) in duct(s) Cable(s) in duct(s) (on some raster maps) Multiple cables in ducts Multiple cables in ducts (on some raster maps)

EHV, HV and LV sites (1:500 view)

NetMAP system	Scanned image	Description
		Primary substation
		Secondary substation
		Pad mounted substation
		Link box – 2 way
		Link box – 4 way (6 way etc shown similarly)
		Feeder pillar – 4 way (6 way etc shown similarly)
		Pole transformer Poles on underground records
		H pole, any voltage
		Service turret (solid type)

section continued on next page

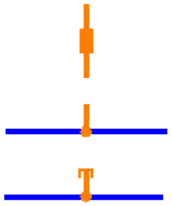
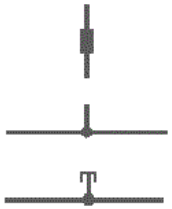
EHV, HV and LV sites continued (1:500 view)

NetMAP system	Scanned image	Description
No NetMAP equivalent  CAUTION Missing Information	 No equivalent	Service turret (with link facility on LV main) Missing data in or near this location
	Not applicable	Contaminated land reference

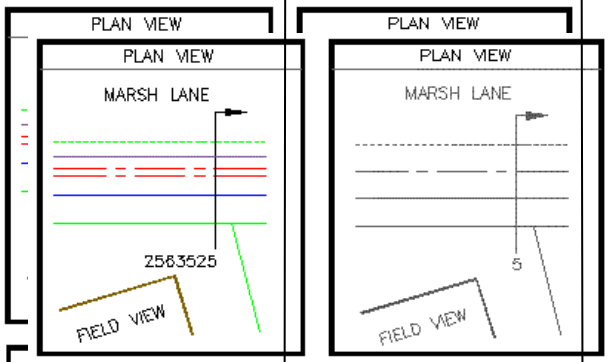
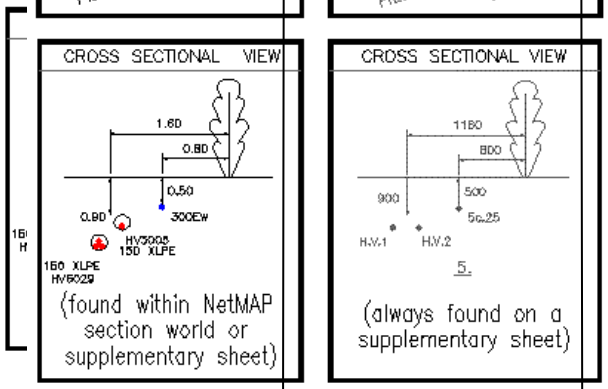
Mains joints (1:500 view)

NetMAP system	Scanned image	Description
(voltage indicated by colour/line-style)		
		Straight joint
		Crutch joint
		Straight crutch joint
		Pot end
		Pot end – on one of several cables – single line representation
		Branch joint/pot end – (humpty back joint, back to back joint, bull nose joint or stub joint
		Sleeve repair or repair joint
		Cut end
		Capped end
		Tee joint
	NetMAP/vector only	Sicame joint box

Service joints (1:500 view)

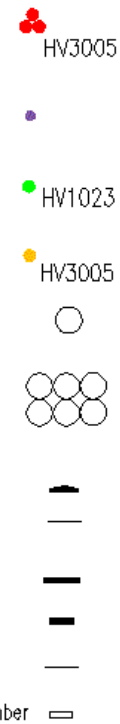
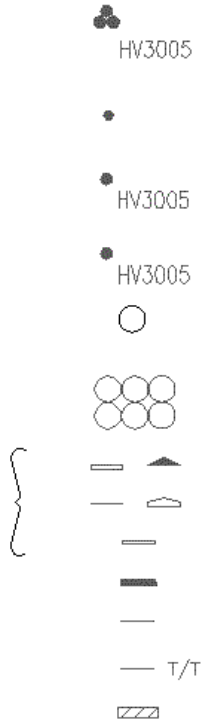
NetMAP system	Scanned image	Description
Please note that 3 phase services are shown blue, and single phase services are shown brown		
		Straight joint
		Service joint to main
		Pot end

Cross sections (1:500 view)

NetMAP system	Scanned image	Description
		Single line representational plan view with NetMAP equivalent (please note the use of seperate line for each voltage on the raster/MMS data)
		Cross sectional view of above
		Section arrow with old/new numbering system – points in direction section is viewed
		LV/3 phase service cable
		Single phase service cable with size annotation
		HV cable – 3 core with route number annotation

section continued on next page

Cross sections continued (1:500 view)

NetMAP system	Scanned image	Description
		HV cable – modern EPR, Plam and Triplex with route number annotation Pilot cable 33kV cable 132kV cable Single duct 6 way duct formation – irrespective of duct type and material, all are displayed similarly Protective slab Tiles Concrete slabs 33kV fibre warning board Steel plate Plastic tile tape Timber

Common abbreviations and terminology (all views)

Abbrev.	Description
1c	Single core
1ph	Single phase
2c	Two core
3c	Three core
3ph	Three phase
ABC	Aerial bunched (bundled) conductor (modern LV overhead line)
ABI	Air break isolator (no fuses)
ABSD	Air break switch disconnector
ACCS	Aluminium concentric copper sheathed
Al	Aluminium
AR	Auto recloser
ASL	Automatic sectionalising links
ax	Triplex (aluminium)
	2 x 22mm AL PVC (example) Duplex
	3 x 22mm AL PVC (example) Triplex
CB	Circuit breaker
c/c	Concentric cores
ccc	Compact covered conductor
CCT	Circuit
CNE	Combined neutral and earth
Cross phased	The core colour may be different to originating transformer phasing
CS	Consac
CSE	Cable sheath earth
Cu	Copper

Abbrev.	Description
Cut out or C/O	Meter/main fuse position
cx	Triplex (copper)
DE	Direct earth
DSTA	Double steel tape armoured
Ea	Alpex cable
EFI	Earth fault passage indicator
EHV	Extra high voltage (11,001 Volts and over)
ELCB	Earth leakage circuit breaker
ELT	Earth leakage trip
EPR	Ethylene propylene rubber
Ew	Waveform cable
E/W	Earthenware duct or earth wire
Fdr or Feeder	LV or HV cable fed by or feeding a substation
F/G	Fuse gear
F/P	Feeder pillar
GRP	Fibreglass substation
GVR	Gas vacuum recloser or pole mounted circuit breaker
HV	High voltage (1,001–11,000 Volts incl)
HYBRID	Modern plastic cable with mixed conductor material (Al/Cu)
Insulation	Electrically protective material surrounding a conductor
Insulator	Porcelain or glass over–head line support (on poles)
ITC	Instrument traced cable or ITC - cable traced electronically using Cable Avoidance Tool (CAT) or similar

section continued on next page

Common abbreviations and terminology continued (all views)

Abbrev.	Description
Jumper	Connecting lead between open points, section points and overhead plant
kV	Kilovolt (or 1,000 Volts) – unit of electrical pressure
kW	Kilowatt (1,000 Watts) – unit of electrical power
kVA	Kilovolt Amps or power
Link box or LB	Means of connecting LV feeders together using links or fuses
LSF	Low smoke & fume
LV	Low voltage (up to 1,000 Volts incl)
LV Pillar	Low voltage fuse distribution board
Neutral	Return path of live cable
O/H or OHL	Overhead line
OYS	Oil filled pole mounted sectionaliser
OYT	Oil filled pole mounted recloser
PC400	Pole mounted LV fuse unit
PE	Pot end or potential end – joint on cable end
Phase	Usually the core colour of a cable (caution – may be cross phased) – Red, Yellow, Blue on old cables, or L1, L2, L3 on new cables, for example

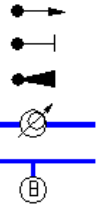
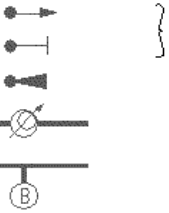
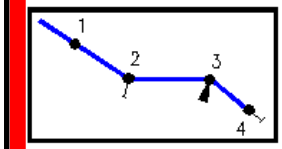
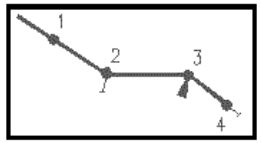
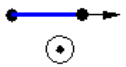
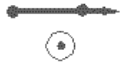
Abbrev.	Description
PICAS	Paper insulated corrugated aluminium sheath armoured
PILC	Paper insulated lead covered
PILSTA	Paper insulated lead covered steel tape armoured cable
PL	Plain lead or public lighting
PME	Protected multiple earth or CNE
PMT	Pole mounted transformer
PMR	Pole mounted recloser (generic term for OYT/GVR)
PT	Pole transformer
PVC	Polyvinyl chloride
RMU	Ring main unit
RN	Reduced neutral
s/c	Split concentric or single core
S/L	Street light
S/S	Substation
STA	Steel tape armoured
SWA	Steel wire armoured
T1 or T2 etc	Substation TX setup where more than one TX exists
T/F or TX	Transformer
Volts	Unit of electrical pressure
Watts	Unit of electrical power
XLPE	Cross linked polyethylene

1:2500 & 1:10000 view - overhead networks - for UK Power Networks use only - boxed in red

General

NetMAP system	Scanned image	Description
		H pole Pole

1:2500 scale LV network

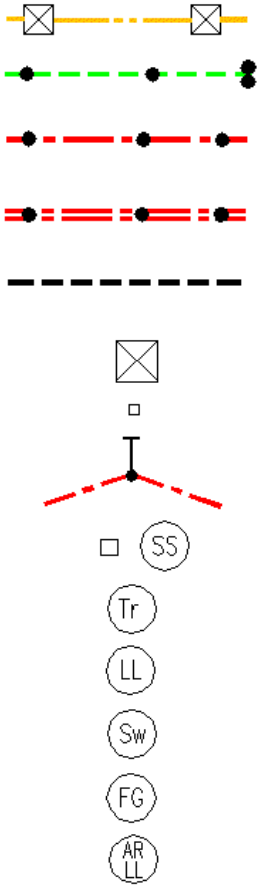
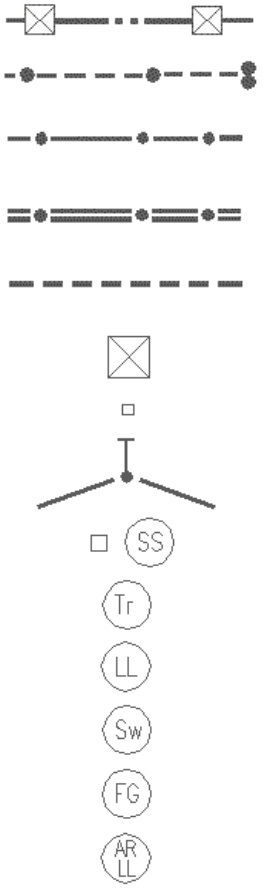
NetMAP system	Scanned image	Description
No NetMAP equivalent		132kV cable route
No NetMAP equivalent		33/22kV cable route
No NetMAP equivalent		11kV underground cable
		132kV overhead line
		33kV overhead line dots mark pole position
		11kV overhead line – dots mark pole position
		Dual construction – dots mark pole position
		LV overhead line – dots mark pole position
No NetMAP equivalent		LV underground cable
		Pole and stay Pole and strut Voltage regulator Static balancer
		Example of struts and stays
		Flying stay
		Earthed pole in PME system
261	261	Pole number
□	□	Ground type substation
S.P.	S.P.	Section pole
S.L.	S.L.	Street light

section continued on next page

1:2500 scale LV network continued

NetMAP system	Scanned image	Description
O.R. Stay Ext. Brkt P. Box N.E. O.R. Brkt	O.R. Stay Ext. Brkt P. Box N.E. O.R. Brkt	Outrigger stay Extension bracket Pole box Neutral and earth Outrigger bracket

1:10000 scale HV network

NetMAP system	Scanned image	Description
		132kV overhead line 33kV overhead line dots mark pole position 11kV overhead line – dots mark pole position 11kV overhead line – dual circuit – dots mark pole position 11kV underground cable and EHV Pylon HV or EHV Grid line tower Stay Ground type substation Pole type transformer Live line taps Switchgear – all types Fuse gear Auto recloser – live line connected

The above circular substation/switchgear symbols may be found that contain different combinations of apparatus (see last example)

LV network diagram view-for UK Power Networks use only-boxed in red

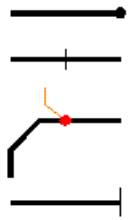
Overhead lines

NetMAP system	Description
	Unknown
	Al
	Cu
	ABC
	Pole link

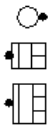
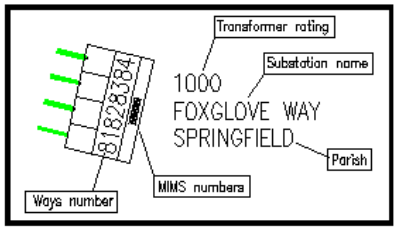
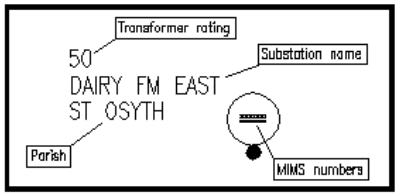
Underground cables (LV network diagram view)

NetMAP system	Description
	Unknown
	Al
	Cu
	CC
	TCC
	Ea
	Ec
	Ecx
	Ew
	LSF
	Other

Joints (LV network diagram view)

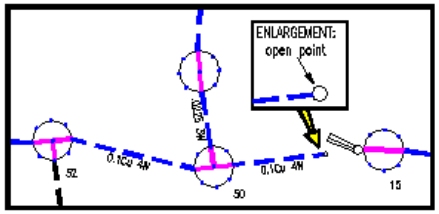
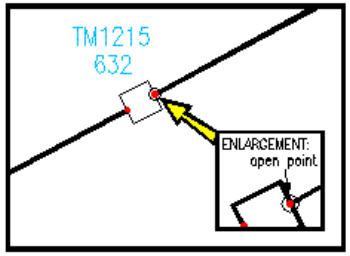
NetMAP system	Description
	Pot end or Sicame Box Straight joint Crutch joint 3 phase termination

Substations/pole transformers (LV network diagram view)

NetMAP system	Description
There are many substation combinations – these are merely a sample of configurations that can be found.	
	2 way substation
	4 way substation
	4 way twin busbar substation
	10 way back to back substation
	Pole transformer (normal) Pole transformer 2 way Pole transformer 3 way
	Substation with rating, name, Parish and MIMS identifying number
	Pole transformer with rating, name, Parish and MIMS identifying number
	Intermediate pole
	Section pole
	Overhead fuse

section continued on next page

Substations/pole transformers cont'd (LV network diagram view)

NetMAP system	Description
	Overview – the purple lines through the section poles are pole links – these indicate how the network is linked together
	2 way link box
	3 way link box
	4 way link box
	4 way double busbar link box
	4 way BICC link box
	5 way link box
	6 way link box
	6 way double busbar link box
	A two way link box with identification number, connected to a cable with an open point
	Feeder pillars – these range from 2 ways through to 9 ways – a 9 way and a 2 way are shown as examples
	



UK Power Networks
Delivering your electricity

ukpowernetworks.co.uk



Your life can be lost within seconds if you come into contact with electricity.

Every year, people are killed or seriously injured when they come into contact with high voltage electricity.

This can have a far-reaching and devastating effect on family, friends and colleagues.

Distractions, working long hours, rushing to get the job done, can all impact on how we work and our safety.

Taking time to plan, being prepared and focusing on the way we work can help keep us safe.

WOODEN POLES CAN CARRY TELEPHONE AND ELECTRICITY WIRES. **NEVER ASSUME** THE WIRE IS A TELEPHONE WIRE

LINES CAN BE **RE-ENERGISED** AT ANY TIME

400,000 VOLTS

ELECTRICITY SYSTEMS CARRY VOLTAGE UP TO 400,000 VOLTS. **EVEN 230 VOLTS (DOMESTIC VOLTAGE) CAN BE LETHAL**

Be Bright Stay Safe

UK Power Networks
Delivering your electricity

RUBBER BOOTS
WILL NOT PROTECT YOU!

OUR NETWORK DISTRIBUTES ELECTRICITY THROUGH UNDERGROUND CABLES, PYLONS, OVERHEAD POWER LINES, SUBSTATIONS AND OTHER EQUIPMENT

National power cut helpline

POWER CUT? CALL 105

OR CALL US 24 HOURS A DAY ON
0800 31 63 105

TAKE NOTICE OF ANY YELLOW '**DANGER OF DEATH**' WARNING SIGNS. AND STAY WELL AWAY!

REMEMBER ELECTRICITY **CAN JUMP GAPS**

OVERHEAD POWER LINES ARE OFTEN UNINSULATED (BARE)

CABLES ARE OUT OF SIGHT ALWAYS REQUEST CABLE PLANS BEFORE STARTING WORK

CARRY OBJECTS AND EQUIPMENT **HORIZONTALLY AND AT LOW LEVEL TO THE GROUND**

TOUCHING ANYTHING IN CONTACT WITH ELECTRICAL EQUIPMENT, EVEN THE LOWEST OF VOLTAGES, CAN BE FATAL

The electricity network is designed to keep you safe. But how safe are you when you are working?

UK Power Networks is the country's biggest electricity distributor, making sure the lights stay on for more than eight million homes and businesses across London, the South East and the East of England.

The safety of our customers and staff is our top priority.

Underground cables carry a powerful electrical charge which can be conducted through machinery and equipment with fatal consequences. Anyone working close to live underground cables should take the time to read this simple leaflet and identify the precautions they should be taking.

Keep well away - Electricity can kill



Remember:

- The depth and location of cables and services shown on the plans may have changed because of subsequent site alterations
- Be aware that not all cables and services may be shown on the plans
- Cables do not run in straight lines. Underground cables may be deflected around underground obstacles and can change depth
- Wear Personal Protective Equipment to minimise the harm of electric shock and burns

If you are building a permanent or temporary structure within close proximity of power lines it's a legal requirement* you notify us in advance to ensure your building is kept at a safe distance from power lines, and to avoid the need to relocate our equipment in the future. This can be done by completing a simple form here www.ukpowernetworks.co.uk/notifyus

*Regulation 18(3) of the Electricity, Quality & Continuity Regulations 2002 (ESQCR)







How can we help?

If you work or live in the UK Power Networks area contact us or look on our website. We provide free information and advice about the precautions and safe working practices to be followed when working close to electrical equipment.

Further advice and guidance is available from the Health and Safety Executive (HSE):
HSG85 - Electricity at Work – Safe Working Practices
GS6 - Avoiding Danger from Overhead Power Lines
HSG47 - Avoiding Danger from Underground Services

What to do in an emergency

If a mains electricity cable is damaged:

- **STOP WORK IMMEDIATELY**
- Notify UK Power Networks: Dial 105
- If you damage a cable, stay calm, keep clear, and call for help
- Call the emergency services if anyone is injured or there is a fire. Anyone who has received an electric shock should go to hospital as damage may have occurred to the heart
- Always treat the cable(s) as live even if they are not sparking
- Never remove anything that is stuck or in contact with the cable
- Stay clear - keep everyone away until assistance arrives



To request your FREE vehicle cab stickers visit the safety pages at **www.ukpowernetworks.co.uk**

If you are unsure who your network operator is then please visit **www.energynetworks.org**

Be Bright Stay Safe

You could be in danger when carrying out your everyday trades activities such as digging, construction and demolition.

- **Contact UK Power Networks or Line Search Before U Dig (LSBUD) in advance of the works to obtain relevant cable plans or to request disconnections. The cable plans will only show the indicative route and not the route into the property**
- **Ensure the cable plans are shown to and understood by those on site BEFORE starting work**
- **Confirm the cable location by using a Cable Avoidance Tool (CAT) before digging commences. Once found, mark cable positions with spray paint or similar**

For cable plans visit www.lsbud.co.uk or www.ukpowernetworks.co.uk

- **Complete a risk assessment and ensure it covers electrical hazards**
- **Use spades and shovels with insulated handles in preference to forks and picks**
- **Look around for anything in the vicinity that would have an electricity service such as street lights, CCTV cameras, or meter boxes and identify where the cables are**
- **Look for electrical wires, cables and equipment near to where you are going to work and check for warning signs and any other hazards**
- **Contact UK Power Networks to agree a safe method of work if there is a cable encased in concrete, DO NOT BREAK OPEN**
- **Make sure everyone on site is aware of the presence and location of electrical cables**
- **Before demolishing a building make sure supplies are disconnected, preferably well clear of the work area. For guidance on how to arrange a disconnection visit www.ukpowernetworks.co.uk**

NATIONAL POWER CUT HELPLINE

POWER CUT? CALL 105

ADD THIS NUMBER TO YOUR TELEPHONE CONTACTS LIST

Be Bright Stay Safe

Stop! Think before you dig!

#bebrightstaysafe

@UKPowerNetworks /ukpowernetworks

National power cut helpline

POWER CUT? CALL 105

Or call us
24 hours a day on
0800 31 63 105

what3words

To report broken or damaged electrical equipment or in an emergency call 0800 31 63 105 or 105 and use what3words to help us locate you faster.

Linesearch before dig

For safety advice about overhead power lines, disconnections and general enquiries, go to:
www.ukpowernetworks.co.uk

To request your **FREE** vehicle cab stickers visit the safety pages at **www.ukpowernetworks.co.uk**

If you are unsure who your network operator is then please visit
www.energynetworks.org

UK Power Networks
Delivering your electricity

CORNERSTONE PROJECTS LTD

THIRD PARTY SEARCHES

91 Market Street Hoylake Wirral CH47 5AA
Tel. 0151 632 5142
enquiries@cornerstoneprojects.co.uk
www.cornerstoneprojects.co.uk
VAT Reg. No. 851 4941 19
Company No. 5132353

Registered in England. Registered Address : Cornerstone Projects Ltd, 91 Market Street, Hoylake, Wirral CH47 5AA

Enquiry Confirmation

LSBUD Ref: 33129444

Date of enquiry: 17/04/2024
Time of enquiry: 13:13

Enquirer

Name	Mr Duncan Phillips	Phone	01516325142
Company	Cornerstone Projects	Mobile	Not Supplied
Address	91 Market Street Hoylake MSY CH47 5AA		
Email	searches@cornerstoneprojects.co.uk		

Enquiry Details

Enquiry type	Initial Enquiry
Work category	Development Projects
Work type	Commercial/industrial
Work type buffer*	75 metres
Start date	18/04/2024
End date	18/04/2024
Scheme/Reference	35803
Search location	XY= 555781, 238175
Confirmed location	555774 238156
Site size	231095 metres square
Site Contact Name	Not Supplied
Site Phone No.	Not Supplied
Description of Works	

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

Site Map



Please note that the above map only displays the location of the proposed work site and will not display any of the Members' pipes and cables. It is imperative that this area accurately reflects the proposed work site.

Affected LSBUD members

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

Do not proceed until all Members listed below have confirmed that your works can continue.

Asset Owner	Phone/Email	Emergency Only	Status
Cadent Gas	0800688588	0800111999	Await response
DIO (MOD Abandoned Pipelines)	dio@fishergerman.co.uk	NA	Email Additional Info
Exolum Pipeline System	08450701245 exolumpipelinesystem@fishergerman.co.uk	01189712021	Email Additional Info
Last Mile	plantenquiries@lastmile-uk.com	0800111999	Await response
UK Power Networks	08000565866	08000565866	Await response

Status explanation

Await Response means that the asset owner will contact you. This is typically by sending the plan response but they may ask for further information before being able to do so, particularly if any payments or authorisations are required.

Email Additional Info means that the asset owner needs further information about your works to assess your enquiry before providing a response. Please provide any details you have available including plans, method statements etc. if available.

Enquiry Confirmation
LSBUD Ref: 33129444

Date of enquiry: 17/04/2024
Time of enquiry: 13:13

Important notices

It is very important that you correctly understand what the service does and the procedures in order for you to work safely. Please refer to the LSBUD Support Page (www.lsbud.co.uk/linesearchbeforeudig-support) for further guidance.
This information includes how to provide additional information to the LSBUD Members who request it to provide a response to your enquiry.
Validity and search criteria. The results of this enquiry are based on the confirmed information you entered and are valid only as at the date and time of the enquiry. It is your responsibility to ensure that the Enquiry Details are correct, and LinesearchbeforeUdig (LSBUD) accepts no responsibility for any errors or omissions in the Enquiry Details or any consequences thereof. LSBUD Members update their asset information on a regular basis so you are advised to consider this when undertaking any works. It is your responsibility to choose the period of time after which you need to resubmit any enquiry but the maximum time (after which your enquiry will no longer be dealt with by the LSBUD Helpdesk and LSBUD Members) is 28 days. If any details of the enquiry change, particularly including, but not limited to, the location of the work, then a further enquiry must be made.
Terms and Conditions. Please note that this enquiry is subject always to our standard terms and conditions available at www.lsbud.co.uk ("Terms of Use") and the disclaimer at the end of this document. Please note that in the event of any conflict or ambiguity between the terms of this Enquiry Confirmation and the Terms of Use, the Terms of Use shall take precedence.

List of not affected LSBUD members
(LSBUD Members who do not have assets registered on the LSBUD service within the vicinity of your search area.)

Angus Energy	AWE Pipeline	B & D Energy Limited
Balfour Beatty Investments Limited	BOC Limited (A Member of the Linde Group)	Box Broadband
BP Exploration Operating Company Limited	BPA	Cambridgeshire County Council Climate Change and Energy Services
CATS Pipeline c/o Wood Group PSN	Cemex	Centrica Storage Ltd
CNG Services Ltd	Concept Solutions People Ltd	ConocoPhillips (UK) Teesside Operator Ltd
D.S.Smith	Diamond Transmission Corporation	DIO (MOD Live Pipelines)
Drax Power Limited	E.ON UK CHP Limited	EDF Energy Renewables Ltd
EirGrid	Eleclink Limited	Electricity North West Limited
Energy Assets Networks	ENI & Himor c/o Penspen Ltd	EnQuest NNS Limited
EP Langage Limited	ESB CCGT Power station (Carrington Gas Pipeline)	ESP Utilities Group
ESSAR	Esso Petroleum Company Limited	euNetworks Fiber UK Ltd
EXA Infrastructure	Fulcrum Electricity Assets Limited	Fulcrum Pipelines Limited
Gamma	Gas Networks Ireland (UK)	Gateshead Energy Company
Gigaclear Ltd	Harbour Energy	Heathrow Airport LTD
Humbly Grove Energy	IGas Energy	INEOS FPS Pipelines
INEOS Manufacturing (Scotland and TSEP)	INOVYN ChlorVinyls Limited	INOVYN Enterprises Limited
Intergen (Coryton Energy or Spalding Energy)	Jurassic Fibre Ltd	Kensa Utilities
Mainline Pipelines Limited	Manchester Jetline Limited	Manx Cable Company
Marchwood Power Ltd (Gas Pipeline)	Melbourn Solar Limited	MUA Group Limited
National Gas Transmission	National Grid Electricity Distribution	National Grid Electricity Transmission
National Grid Ventures	Neos Networks	Northern Gas Networks Limited
Northumbrian Water Group	NPower CHP Pipelines	NTT Global Data Centers EMEA UK Ltd
NYnet Ltd	Ogi	Oikos Storage Limited
Ørsted	Palm Paper Ltd	Perenco UK Limited (Purbeck Southampton Pipeline)
Petroineos	Phillips 66	Portsmouth Water
Premier Transmission Ltd (SNIP)	Redundant Pipelines - LPDA	RWE - Great Yarmouth Pipeline (Bacton to Great Yarmouth Power Station)
RWEnpower (Little Barford and South Haven)	SABIC UK Petrochemicals	SAS Utility Services Ltd
Scottish and Southern Electricity Networks	Scottish Power Generation	Seabank Power Ltd
SES Water	SGN	Shell
Shell NOP	SP Energy Networks	Spring Fibre Limited
Squire Energy Networks	SSE Generation Ltd	SSE Transmission

Enquiry Confirmation
LSBUD Ref: 33129444

Date of enquiry: 17/04/2024
Time of enquiry: 13:13

SSE Utility Solutions Limited	Storengy	Tata Communications (c/o JSM Construction Ltd)
TfL – London Underground HV Cables (Road Side Cables)	toob Limited	Total Colnbrook Pipelines
Total Finaline Pipelines	Transmission Capital	Trojan Energy Limited
Uniper UK Ltd	University of Cambridge Granta Backbone Network	Vattenfall
Veolia ES SELCHP Limited	Veolia ES Sheffield Ltd	Voneus Limited
VPI Power Limited	Wales and West Utilities	Welsh Power
West of Duddon Sands Transmission Ltd	West Sussex OpenNetwork (Cooperative National Infrastructure)	Westminster City Council
Zayo Group UK Ltd c/o JSM Group Ltd		

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

Asset Owner	Preferred contact method	Phone	Status
Affinity Water	maps@affinitywater.co.uk	03453572428	Not Notified
Anglian Water	http://www.digdat.co.uk	01480323891	Not Notified
BT	https://www.swns.bt.com/pls/mbe/welcome.home	08000232023	Not Notified
CityFibre	asset.team@cityfibre.com	033 3150 7282	Not Notified
Colt	plantenquiries@catelecomuk.com	01227768427	Not Notified
Equans	nrswa.uk@equans.com	0800 130 3600	Not Notified
Essex County (West Area)	Utilities.Stats@essexhighways.org	08456037621	Not Notified
GTC	https://pe.gtc-uk.co.uk/PlantEnqMembership	01359240363	Not Notified
Lumen Technologies	plantenquiries@ocugroup.com	02087314613	Not Notified
Mobile Broadband Network Limited	mbnl.plant.enquiries@turntown.com	01212 621 100	Not Notified
Sky UK Limited	nrswa@sky.uk	02070323234	Not Notified
Sota	sota.plantenquiries@ocugroup.com		Not Notified
Utility assets Ltd	assetrecords@utilityassets.co.uk		Not Notified
Verizon Business	osp-team@uk.verizonbusiness.com	01293611736	Not Notified
Virgin Media	http://www.digdat.co.uk	08708883116	Not Notified
Vodafone	osm.enquiries@atkinsglobal.com	01454662881	Not Notified

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

Our Ref: Exolum LSBUD-240417-33129444
File Ref/UR: THS/ES/UT/1570/L.1/241944
Confirmed Location: 555774 238156
Your Ref: 35803

Date: 17-04-2024

FISHER GERMAN LLP
Exolum Pipeline System Ltd
PO Box 7273
Ashby de la Zouch
Leicestershire
LE65 2BY

Tel: 0845 0701245
Email: Exolumpipelinesystem@fishergerman.co.uk
www.fishergerman.co.uk

For the attention of Mr Duncan Phillips
Cornerstone Projects
91
Market Street
Hoylake
Merseyside
CH47 5AA

Dear Sirs/Madam

Exolum Pipeline System ('Exolum') – Affected Response

Thank you for your enquiry dated 17-04-2024. We confirm that our client Exolum's apparatus will be affected by your proposals as indicated on the attached plan(s). The plan(s) supplied are intended for general guidance only and should not be relied upon for excavation or construction purposes. No guarantee is given regarding the accuracy of the information provided and in order to verify the true location of the pipeline you should contact Exolum to arrange a site visit. Their contact details are:

Central Services
Ashdon Road
Saffron Walden
Essex, CB10 2NF

Email: pipelinerow@exolum.com
Tel: 01799 564101

When contacting Exolum, please quote our unique reference **241944**, which is specific to this enquiry. Please note that you should contact Exolum within 28 days of the date of this letter in order to validate this enquiry, otherwise it will become void.

You should note that the interests of the Exolum pipeline are conserved by means of the Energy Act 2013, in particular Part IV of the Act, and other legislation such as the Pipeline Safety Regulations 1996. It is, however, the Energy Act 2013 that prohibits any development and most intrusive activities within the Easement Strip without specific consent from Exolum. Exolum's Easement Strips are 6 metres wide and can incorporate other associated Exolum facilities.

Exolum will be able to provide guidance on the required procedures for entering into a Works Consent and provide confirmation on permitted development and intrusive activities. The whole process of obtaining a Works Consent can take between four and six weeks depending on circumstances at the time of application.

To reiterate, you should not undertake any work or activity without first contacting Exolum for advice and, if required, a Works Consent. For a copy of Exolum's Standard Requirements for Crossing or Working in Close Proximity to Exolum Pipelines, please visit https://downloads.safedigs.co.uk/lsbud_media/pdf/lsbud-standard-requirement-uk-CLH.pdf This will provide you with practical information regarding the legislation that governs the Exolum pipeline system.

You should also be aware that landowners and third parties have a duty of care not to carry out any works that have the potential to damage Exolum apparatus. This duty of care applies even

Fisher German LLP is a limited liability partnership. Registered in England and Wales. Registered Number: OC317554. Registered Office: The Head Office Ivanhoe Office Park, Ivanhoe Park Way, Ashby-De-La-Zouch, Leicestershire, England, LE65 2AB. A list of members' is available for inspection at Head Office.

if the works themselves are situated more than 3 metres from the pipeline. Examples of such works are mineral extraction, mining, explosives, piling and windfarms.

Please note that implementation of any unapproved work that affects the Exolum Easement Strip may result in serious consequences in terms of health and safety, expense and other attendant liabilities. In such cases it is the perpetrator of the act, together with any other promoting organisation, that shall be held fully accountable for any resulting damage.

Should you require any further assistance regarding this letter please contact the undersigned or alternatively, you can contact Exolum using the details provided above.

Yours faithfully

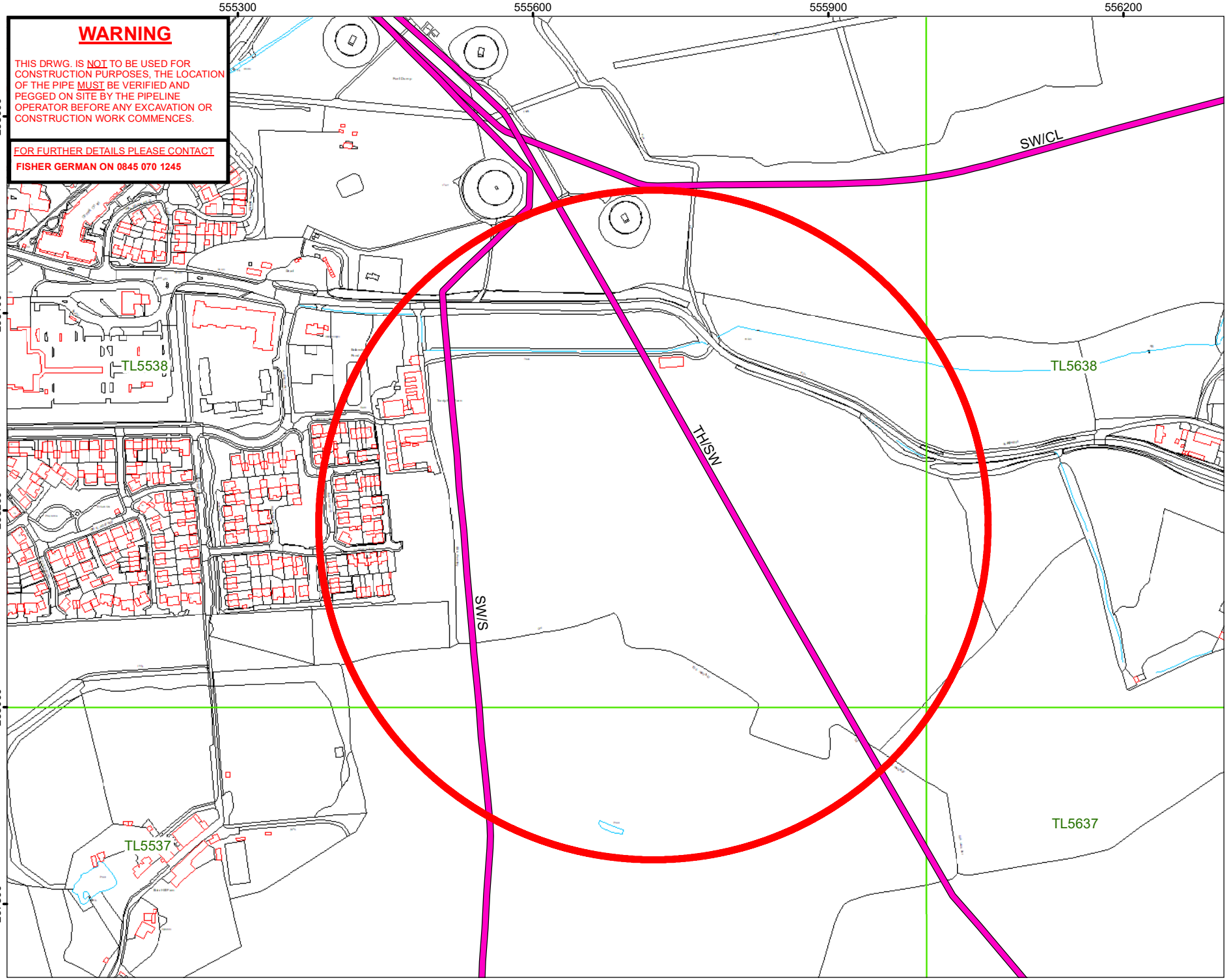
Fisher German LLP

For and on behalf of FISHER GERMAN LLP (Exolum's Authorised Agent)

Enc. Location Plan

cc. Exolum

Fisher German, as agents acting for Exolum will store and process your data in full compliance with our legal obligations. We will pass your information to our client when required to do so to facilitate the ongoing contact process as the asset owner. Our client may need to share this information with other third-party partners to arrange access and to facilitate maintenance activities, where appropriate. This information will not be sold or made available for marketing purposes. Further details about how your data will be used can be found on our client's website www.exolum.com or by contacting them by email: ukinfo@exolum.com or telephone: 020 7657 1250.



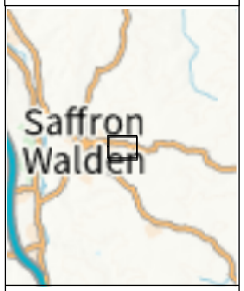
WARNING

THIS DRWG. IS NOT TO BE USED FOR CONSTRUCTION PURPOSES, THE LOCATION OF THE PIPE MUST BE VERIFIED AND PEGGED ON SITE BY THE PIPELINE OPERATOR BEFORE ANY EXCAVATION OR CONSTRUCTION WORK COMMENCES.

FOR FURTHER DETAILS PLEASE CONTACT
FISHER GERMAN ON 0845 070 1245

N

OVERVIEW WINDOW



Legend

EXOLUM

Cathodic Protection

Nearest Postcode:
CB10 2JZ

Latitude & Longitude:
52.020622 , 0.26894046

Site centre coordinates:
555,684 - 238,214

Client:

exolum

TITLE:
LOCATION PLAN EXTRACT OF PIPELINE SW/S & TH/SW

SCALE: 1:5,000 @ A4
DATE: 17/04/2024

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FISHER GERMAN
The Estates Office,
Norman Court, Ashby de la Zouch,
Leicestershire, LE65 2UZ
Telephone 0845 070 1245

DRAWING NO:
LSBUD-240417-33129444

Searches - Cornerstone Projects Ltd

From: DIO <DIO@fishergerman.co.uk>
Sent: 18 April 2024 12:07
To: 'searches@cornerstoneprojects.co.uk'
Subject: DIO (MOD) Abandoned Pipeline, Affected Response attached - LSBUD-240417-33129444
Attachments: AFFECTED COVER LETTER - Defence Infrastructure Organisation - 18.04.24.pdf

Dear Sirs

Please find attached your affected response for - LSBUD-240417-33129444.

Please note our client no longer provides maps for these abandoned assets as they have no legal ownership or interest in them any longer.

Kind regards,

Email: DIO@fishergerman.co.uk

18th April 2024

Dear Sir/Madam

Abandoned Pipelines – Land Powers (Defence) Act 1958 (formerly part of the GPSS)

Thank you for your enquiry.

Using the confirmed location provided by your LSBUD search, our records indicate there is an abandoned pipeline in the area. If you are working near the pipeline, we would recommend that you seek the advice of a specialist pipeline contractor by contacting the Pipeline Industries Guild.

The pipeline has been declared abandoned by the Ministry of Defence and the necessary legal charges have been removed in accordance with the Land Powers (Defence) Act 1958 and subsequent legislation. If the landowner wishes to remove the pipeline from the land they may do so at their own cost; however, as different methodologies were used to decommission pipelines, we highly recommend using specialist contractors.

This letter relates to the abandoned pipelines from the former Government Oil and Pipeline System and you should make separate enquiries relating to live pipelines owned by other third parties that may be in close proximity.

Yours faithfully

DIO (MOD Abandoned Pipelines)

RAF Wyton, Huntingdon, Cambridgeshire, PE28 2EA

CABLE

91 Market Street Hoylake Wirral CH47 5AA
Tel. 0151 632 5142
enquiries@cornerstoneprojects.co.uk
www.cornerstoneprojects.co.uk
VAT Reg. No. 851 4941 19
Company No. 5132353

Registered in England. Registered Address : Cornerstone Projects Ltd, 91 Market Street, Hoylake, Wirral CH47 5AA

Searches - Cornerstone Projects Ltd

From: Dileep, Shaik <Shaik.Dileep@atkinsrealis.com>
Sent: 18 April 2024 10:38
To: searches - Cornerstone Projects Ltd
Subject: RE: Ref. 35803 Saffron Walden - Land south of Radwinter Rd, East of Griffin Place, CB10 2NP

Please accept this email as confirmation that Vodafone: Fixed **does not** have apparatus within the vicinity of your proposed works detailed below.

Many thanks.

Plant Enquiries Team(DS)
T: +44 (0)1454 662881
E: osm.enquiries@atkinsglobal.com

This response is made only in respect to electronic communications apparatus forming part of the Vodafone Limited electronic communications network formerly being part of the electronic communications networks of Cable & Wireless UK (now re-named Vodafone Enterprise UK), Energis Communications Limited, Thus Group Holdings Limited and Your Communications Limited.

ATKINS working on behalf of Vodafone: Fixed

PLEASE NOTE:

The information given is indicative only. No warranty is made as to its accuracy. This information must not be solely relied upon in the event of excavation or other works carried out in the vicinity of Vodafone plant. No liability of any kind whatsoever is accepted by Vodafone, its servants, or agents, for any error or omission in respect of information contained on this information. The actual position of underground services must be verified and established on site before any mechanical plant is used. Authorities and contractors will be held liable for the full cost of repairs to Vodafone's apparatus and all claims made against them by Third parties as a result of any interference or damage.

IMPORTANT - PLEASE READ:-

Diversionary works may be necessary if the existing line of the highway/railway or its levels are altered, where apparatus is affected. Where apparatus is affected and requires diversion, you must submit draft details of the proposed scheme with a request for a 'C3 Budget Estimate' to c3requests@vodafone.com These estimates should be provided by Vodafone normally within 20 working days from receipt of your request. Please include proof of this C2 response when requesting a C3 (using the 'forward' option).

Please consider the environment before printing this e-mail

At Atkins - member of the SNC-Lavalin Group, we work flexible hours around the world. Although I have sent this email at a time convenient for me, I don't expect you to respond until it works for you.

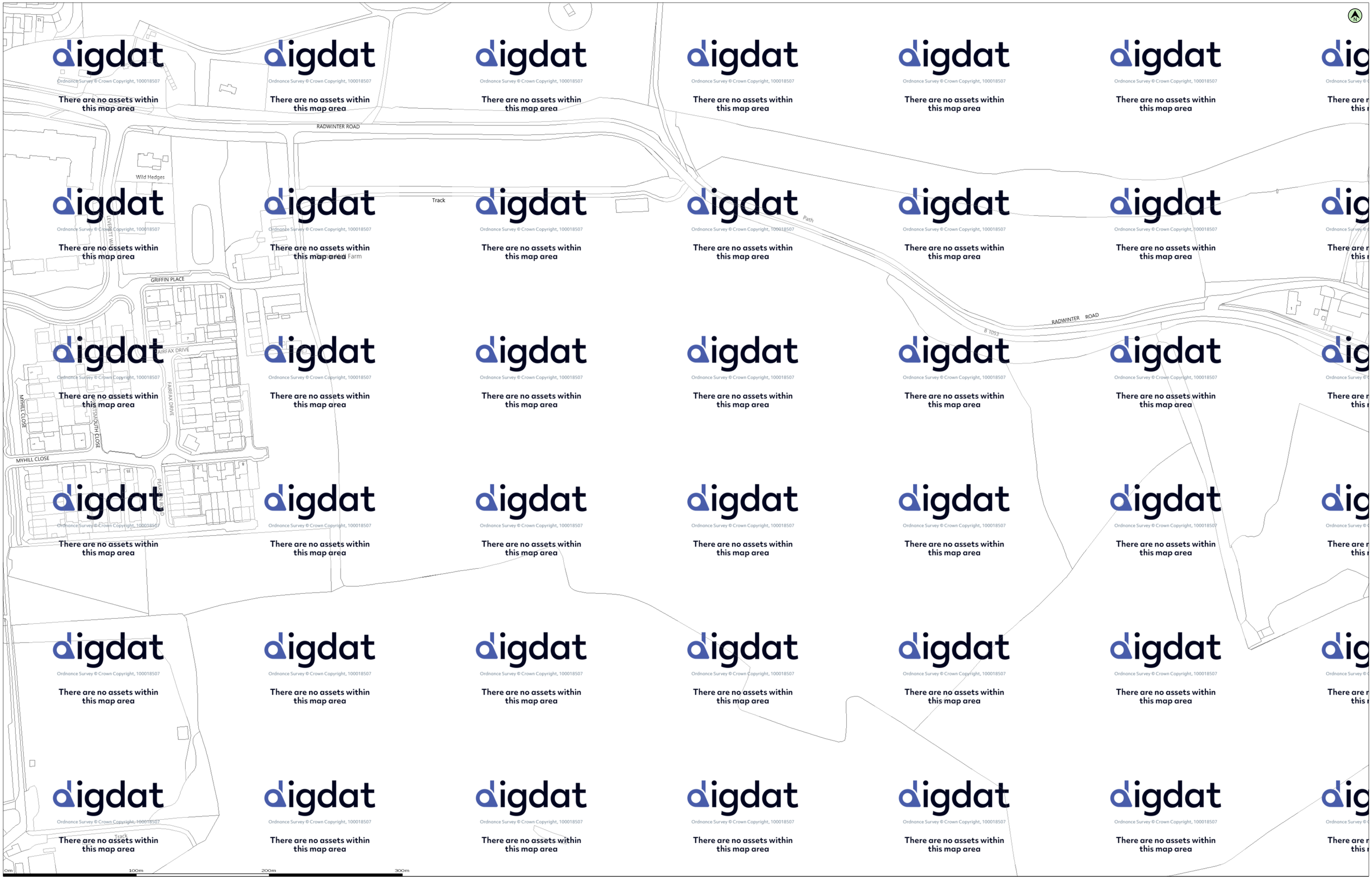
From: searches - Cornerstone Projects Ltd <searches@cornerstoneprojects.co.uk>
Sent: Wednesday, April 17, 2024 5:46 PM
To: National Plant Enquiries <OSM.enquiries@atkinsrealis.com>
Subject: Ref. 35803 Saffron Walden - Land south of Radwinter Rd, East of Griffin Place, CB10 2NP

Dear Sir/Madam,

Re: - Underground Apparatus / Plant

Site Ref. 35803 Saffron Walden - Land south of Radwinter Rd, East of Griffin Place, CB10 2NP - NGR E555781 N238175

In order that all reasonable precautions may be taken to avoid risk to health and safety through contact with any of your existing apparatus during execution of works at the above site location, please provide plan(s) indicating the general position and nature of your apparatus in the locality. In addition, please highlight any likely special problems



digdat
Ordnance Survey © Crown Copyright, 100018507
There are no assets within this map area

(c) Crown copyright and database rights 2024 Ordnance Survey 100019209 | Date: 17/04/24 | Scale: 1:1250 | Map Centre: 555781,238175 | Data updated: 02/04/24 | Our Ref: 1447299 - 2 | Telecoms Plan A1

Important Information - please read The purpose of this plan is to identify Virgin Media apparatus. We have tried to make it as accurate as possible but we cannot warrant its accuracy. In addition, we caution that within Virgin Media apparatus there may be instances where mains voltage power cables have been placed inside green, rather than black ducting. Further details can be found using the "Affected Postcodes.pdf", which can be downloaded from this website. Therefore, you must not rely solely on this plan if you are carrying out any excavation or other works in the vicinity of Virgin Media apparatus. The actual position of any underground service must be verified by cable detection equipment, etc. and established on site before any mechanical plant is used. Accordingly, unless it is due to the negligence of Virgin Media, its employees or agents, Virgin Media will not have any liability for any omissions or inaccuracies in the plan or for any loss or damage caused or arising from the use of and/or any reliance on this plan. This plan is produced by Virgin Media Limited (c) Crown copyright and database rights 2024 Ordnance Survey 100019209.

Duct, Trench | Chamber / Pole | Cabinet

melanie@cornerstoneprojects.co.uk
35803

Searches - Cornerstone Projects Ltd

From: NRSWA <nrswa.nrswa@sky.uk>
Sent: 19 April 2024 09:16
To: searches@cornerstoneprojects.co.uk
Subject: Plant Enquiries - Site Ref. 35803 Saffron Walden - Land south of Radwinter Rd, East of Griffin Place, CB10 2NP - NGR E555781 N238175

Thank you for your enquiry.

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

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

Regards

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

From: searches - Cornerstone Projects Ltd <searches@cornerstoneprojects.co.uk>
Sent: Wednesday, April 17, 2024 1:16 PM
To: searches - Cornerstone Projects Ltd <searches@cornerstoneprojects.co.uk>
Subject: [EXTERNAL] Plant Enquiries - Site Ref. 35803 Saffron Walden - Land south of Radwinter Rd, East of Griffin Place, CB10 2NP - NGR E555781 N238175

Dear Sir/Madam,

Re: - Underground Apparatus / Plant

Site Ref. 35803 Saffron Walden - Land south of Radwinter Rd, East of Griffin Place, CB10 2NP - NGR E555781 N238175

In order that all reasonable precautions may be taken to avoid risk to health and safety through contact with any of your existing apparatus during execution of works at the above site location, please provide plan(s) indicating the

Searches - Cornerstone Projects Ltd

From: Plantenquiries - CA Telecom <plantenquiries@catelecomuk.com>
Sent: 23 April 2024 09:10
To: 'searches - Cornerstone Projects Ltd'
Subject: RE: Plant Enquiries - Site Ref. 35803 Saffron Walden - Land south of Radwinter Rd, East of Griffin Place, CB10 2NP - NGR E555781 N238175

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

Dear Sir/Madam,

Thank you for your enquiry for the above reference.

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

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

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

Kind regards,

Plant Enquiry Team

Please consider the environment before printing this email.

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

From: searches - Cornerstone Projects Ltd <searches@cornerstoneprojects.co.uk>
Sent: 17 April 2024 13:16
To: searches - Cornerstone Projects Ltd <searches@cornerstoneprojects.co.uk>

Searches - Cornerstone Projects Ltd

From: online.plantenquiries@cityfibre.com
Sent: 17 April 2024 13:28
To: searches@cornerstoneprojects.co.uk
Subject: CityFibre Plant Enquiry, issued on 4/17/24 12:28 PM. Reference a291bf87-c407-4c0e-a0d3-34c9c279d7ad.
Attachments: emap.pdf

You recently requested information pertaining to the above location and in relation to CityFibre Holdings Ltd plant.

Reference a291bf87-c407-4c0e-a0d3-34c9c279d7ad
User: User
Title: 35803
Comment:

Please find attached a plan of the area of your interest that may contain plant which may be affected by your proposed works.

The validity of this response is 6 weeks, after such time a new enquiry would need to be made.

Please see the points of contact below if they are required:

Plant Enquiries
Rutherford House
Birchwood Park
Warrington
WA3 6ZH
asset.team@cityfibre.com

Please quote the Reference ID in the subject line in any correspondence.

Please be aware that all information included in this eMap is the property of the sender and subject to copyright. It is illegal to copy or send this information to any third party without the permission of the sender.

_____
[CityFibre]<https://cityfibre.com/>

Plant Enquiries

0203 5100 602

Disclaimer: CityFibre Limited is incorporated in England (No. 09759465) and its registered office is 15 Bedford Street, London WC2E 9HE. This email, together with any attachments, is confidential and for use by the addressee(s) only. If you are not the intended recipient, please notify the sender immediately, delete the message from your system and do not copy, use, distribute or disclose the email, its contents or attachments for any purpose. CityFibre Ltd accepts no liability for damage caused to a recipient's system by this email nor for any unauthorised access to or interference with this email.



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LEGEND

EXISTING PLANT

EXISTING PLANT

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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: 17/04/2024

Drawing No.

CFH_EP_000001

Revision

001

Scale: 1:2500

A4

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

N



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LEGEND

EXISTING PLANT

EXISTING PLANT

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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,
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Email: asset.team@cityfibre.com

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Project

Plant Enquiry

Drawing

Existing Plant

Drawn by:

smallworld

Date: 17/04/2024

Drawing No.

CFH_EP_000001

Revision

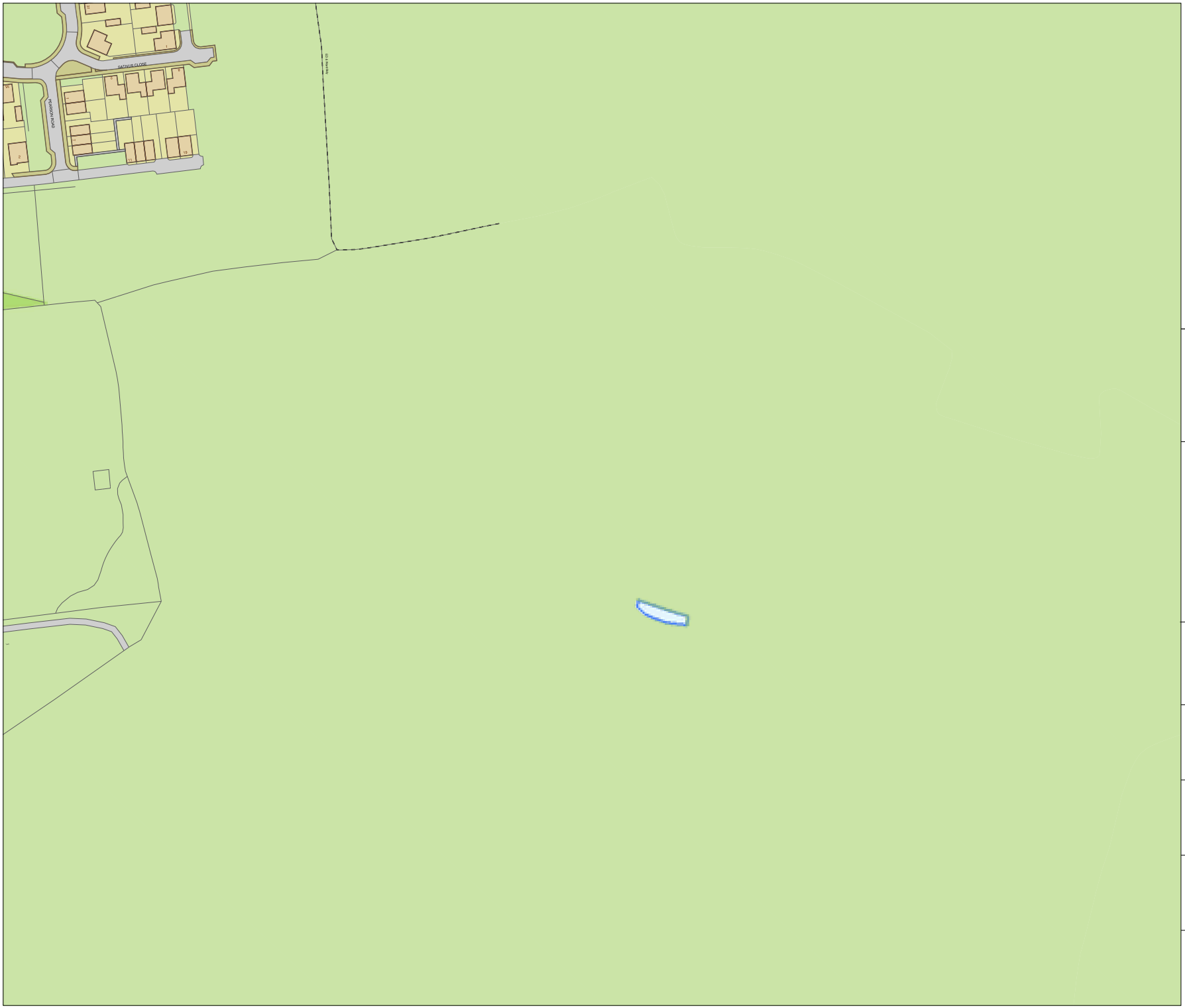
001

Scale: 1:2500

A4

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

N



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LEGEND

EXISTING PLANT

EXISTING PLANT

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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

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Project

Plant Enquiry

Drawing

Existing Plant

Drawn by:

smallworld

Date: 17/04/2024

Drawing No.

CFH_EP_000001

Revision

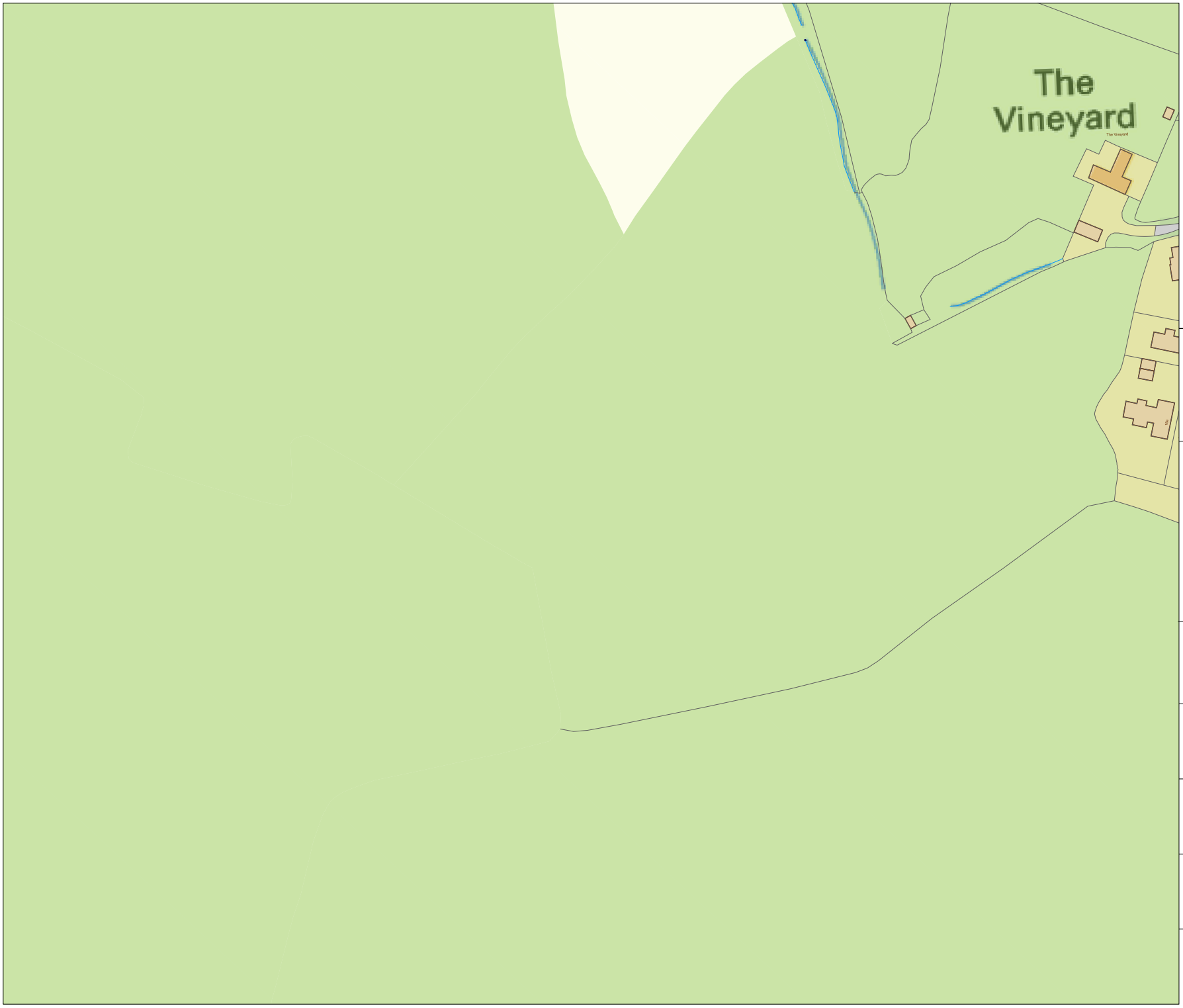
001

Scale: 1:2500

A4

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

N



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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:

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Project

Plant Enquiry

Drawing

Existing Plant

Drawn by:

smallworld

Date: 17/04/2024

Drawing No.

CFH_EP_000001

Revision

001

Scale: 1:2500

A4

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

N

Searches - Cornerstone Projects Ltd

From: Plantenquiries <Plantenquiries@ocugroup.com>
Sent: 24 April 2024 11:47
To: searches - Cornerstone Projects Ltd
Subject: E04-24-6681 RE: Plant Enquiries - Site Ref. 35803 Saffron Walden - Land south of Radwinter Rd, East of Griffin Place, CB10 2NP - NGR E555781 N238175

Dear Sir or Madam,

Thank you for your plant enquiry below.

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

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

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

Please note that our email address has changed from **plantenquiries@instalcom.co.uk** to **plantenquiries@ocugroup.com**. Could you please update your records accordingly.

Response times for plant requests are up to 10 working days. Please allow for 10 working days to pass before chasing requests.

Regards

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

Office: +44 (0)208 731 4613
Fax: +44 (0)208 731 4601
Email: plantenquiries@ocugroup.com
Web: http://www.ocugroup.com

Searches - Cornerstone Projects Ltd

From: UK OSP-Team . <osp-team@verizon.com>
Sent: 23 April 2024 16:37
To: searches - Cornerstone Projects Ltd; UK OSP-Team
Subject: Re: Plant Enquiries - Site Ref. 35803 Saffron Walden - Land south of Radwinter Rd, East of Griffin Place, CB10 2NP - NGR E555781 N238175

Dear Sir/Madam

Verizon is a licensed Statutory Undertaker.

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

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

Yours faithfully

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

On Wed, 17 Apr 2024 at 13:21, searches - Cornerstone Projects Ltd <searches@cornerstoneprojects.co.uk> wrote:

> Dear Sir/Madam,
>
> Re: - Underground Apparatus / Plant
>
> Site Ref. 35803 Saffron Walden - Land south of Radwinter Rd, East of Griffin Place, CB10 2NP - NGR E555781 N238175

CORNERSTONE PROJECTS LTD

INDEPENDENT UTILITIES

91 Market Street Hoylake Wirral CH47 5AA
Tel. 0151 632 5142
enquiries@cornerstoneprojects.co.uk
www.cornerstoneprojects.co.uk
VAT Reg. No. 851 4941 19
Company No. 5132353

Registered in England. Registered Address : Cornerstone Projects Ltd, 91 Market Street, Hoylake, Wirral CH47 5AA

Searches - Cornerstone Projects Ltd

From: plantenquiryservice@gtc-uk.co.uk
Sent: 17 April 2024 14:01
To: searches@cornerstoneprojects.co.uk
Subject: GTC Plant Enquiry - Ref- 4253784
Attachments: 4253784.png; GU-DPR-IG-0022 Safe working in the vicinity of utility networks.pdf

Warning: GTC Apparatus Exists in This Area

Our Plant Enquiry Service Ref: 4253784
Your Enquiry Ref: 35803

Dear Nicci,

Thank you for your enquiry concerning apparatus in the vicinity of your proposed work. For your records, the search area is shown in the attached map.

Please click on the links below to download copies of the relevant utility asset drawings locating our assets in the area which you identified. These drawings are grouped by our relevant network reference, should you need to contact us regarding any of our networks please quote this reference. Links to files will remain live for 10 days. If you do not download these files within this period you will need to submit a new enquiry – this will ensure you have an up-to-date copy of our asset records.

PLEASE NOTE: Where drawings are large, these have been provided in smaller segments. A drawing index is provided as the first file listed for each network reference (example of a network reference: N1234567) shown below. This is intended to help you find the drawing relevant to you more quickly. Please take care to ensure that you use the relevant drawings for every network listed below as we may have multiple networks and multiple utilities in this area.

N0017329

Electric

- EN0017329-1_1_of_9_Entire_site_Rev1-0.png
- EN0017329-1_2_of_9_Rev1-0.png
- EN0017329-1_3_of_9_Rev1-0.png
- EN0017329-1_4_of_9_Rev1-0.png
- EN0017329-1_5_of_9_Rev1-0.png
- EN0017329-1_6_of_9_Rev1-0_Contestable_LV_Rev1-0.png
- EN0017329-1_7_of_9_Rev1-0_Contestable_HV_Rev1-0.png
- EN0017329-1_8_of_9_Rev1-0_Contestable_HV_Rev1-0.png
- EN0017329-1_9_of_9_Rev1-0_Contestable_HV_Rev1-0.png

Gas

- N0017329-1_1_of_4_Entire_site.png
- N0017329-1_2_of_4.png
- N0017329-1_3_of_4.png
- N0017329-1_4_of_4.png

This information is for guidance only and the precise position of the plant must be established, prior to your works, using hand-digging methods only. The contractor will be held responsible for any damage caused to our asset. Please note our assets now include those owned and operated by:

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

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

All works in the vicinity of our networks should be undertaken in accordance with the attached document "GU-DPR-IG-0022: Safe working in the vicinity of utility networks". Reference should also be made to HSG47 Avoiding Danger from Underground Services.

Important: The area of your proposed works may contain gas mains operating at Medium and Intermediate Pressure tiers or electric cables operating at High Voltage – please refer to the network drawings included with this email. If your proposed works are likely to involve excavation within 10 metres of any of these assets, including but not limited to gas governors and electric substations you MUST inform GTC Plant Enquiries by calling 01359 240363 and quoting your Plant Enquiries Service Reference number.
Important: Drawings provided by this service may include utility assets not owned or managed by GTC. Conversely our drawings will NOT display assets from all third parties. It is your responsibility to ensure you have requested information from all utility asset owners.

Gas Escape or Damage MUST be reported on 0800 111 999. National Grid / DNGT will attend to make safe and repair.
Electricity Network Damage MUST be reported to ENC on 0800 032 6990.
Water Network Damage MUST be reported to IWNL on 02920 028 711
Fibre Network Damage MUST be reported to IFNL on 0845 051 1669

Thank you for using the GTC Plant Enquiries Service.

Your sincerely,

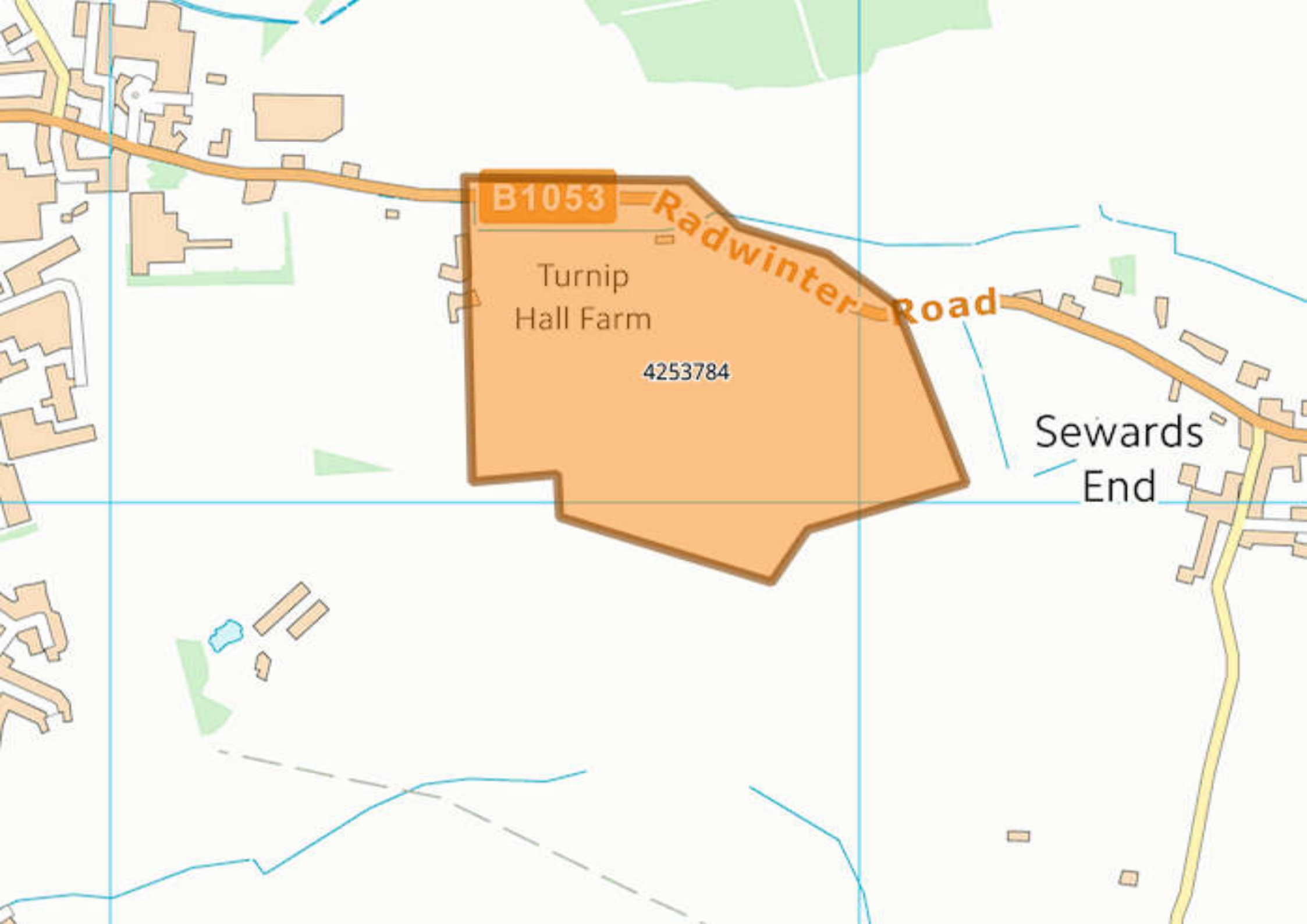
GTC Plant Enquiry Service

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

NOTE:
This E-Mail originates from GTC, Synergy House, Woolpit Business Park, Woolpit, Bury St Edmunds, Suffolk, IP30 9UP
VAT Number: GB688 8971 40. Registered No: 029431.

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Thank you


B1053
Radwinter Road
Turnip
Hall Farm
4253784
Sewards
End

GTC Plant Enquiry. Our Ref 4253784, Your Ref 35803 generated for searches@cornerstoneprojects.co.uk at 17/04/2024 13:58:42, This drawing is reproduced from our records archive at the time of enquiry.

28-03-2024

The design is across multiple drawings for details please refer to all drawings in the set.

Electric Notes

Any electric cables, services and ducts that shall contain electric cables must be marked with electric identifiable marker tape laid 250mm above the cable / duct. Electric mains and services should have a minimum of 250mm separation from any gas pipe.

Duct/UG Specification

Directly buried cables should be surrounded by cable sand installed to BS 7671 Table 4A2 Method of Installation 21. Cable sand should be placed on the bottom of the trench and a further 75mm above

Ducting Specification

- Ducts for electric mains shall be >50mm rigid plastic during compliant with the EAW TG 12.01
- Ducting for LV single phase services shall be 36mm outside diameter unless otherwise stated on the drawing
- Ducting should be used when taking cables across roads and into buildings
- Ducts are shown on the drawing as a thick black line
- Only one cable is allowed per duct.

Electric cable	Outside Diameter
Single Phase	36mm
3 Phase 1.5	150mm
HV	150mm

Service Sizes

Unless otherwise stated, 5 properties per single phase 300mm² Al Cable terminated in 100A BNJ cut out (except where specified).

Cable Colour Identification

For 3ph & 4 conductor mains, the connected phases will be shown as R = red, Y = yellow, B = blue, BN = black, GY = grey.

Material Specification

All cables, equipment and construction method on this network are to be constructed to BSUK standard specification.

Excavation Carried Out by BSUK

The trenches highlighted in blue will be excavated and reinstated by BSUK. Any damage to the highway during reinstatement of the other trenches will be the responsibility of the contractor.

Cable Type	Line
132kV Cable	
66kV Cable	
33kV Cable	
22kV Cable	
11kV Cable	
6.6kV Cable	
LV 11mm Cable	
LV 16mm Cable	
Unique Plot/ Cable Reference	
Cable Joint	
Pot End	
Transformer	
Operated by BUUK Contractors	
Road Boundary	
LV Link Box	
Cable Link Box	
Wall	
Floodlight	
Abandoned	
Abandoned To Disconnect	

Colour
Area Box
Kiosk
HSSR
Substation
Hollow
Network Boundary Point
Starting Ref Cap
Feeder Pillar

Plan Notes

The plan shown apparatus owned by the BUUK Group. Any third party apparatus indicated on these drawings is shown for indicative purposes only. The accuracy of which cannot be guaranteed. You should assume the accuracy cannot be guaranteed. No liability of any kind whatsoever is accepted by BUUK Group for negligence or otherwise for any loss howsoever caused. Apparatus must be used to verify and establish the actual position of mains before any works are undertaken. All persons working to these drawings are hereby advised to obtain their own detailed survey on behalf of HMCL. © Crown copyright and database right 2007. All rights reserved Ordnance Survey Licence number 0100031763.

Plan Apparatus Responsibility

When apparatus has been laid it becomes the responsibility of the developer to ensure adequate protection during the construction period is be carried out as soon as possible. Replacement and repair of damaged apparatus will be undertaken by BUUK Group at the cost of the developer. It will be the developers responsibility to ensure the costs have the risk partly

Plan Revisions

For a detailed history of this network design please see separate revision history document.

GTC, Wendlet Business Park, Saffron Walden, Essex, CB10 2JP
Tel: 01799 550363
www.gtc.co.uk

Last Edit By:

Last Approved By ALEX FRIEND

Approved

OS Ref: 555206,238249

Location: Radwinter Road, Saffron Walden, ESSEX, CB10 2JP

Developer/Client: Linden Homes Eastern

Drawing Number/Title: EN0017329-1 1_of_9_Entire_site_Rev1-0_dopp

Network Number:	Project Number:
N0017329	N0017329-1

Scale:	Sheet Size:	Revision:
1:750	A0	1-0

0 19 m

GTC Plant Enquiry. Our Ref 4253784, Your Ref 35803 generated for searches@cornerstoneprojects.co.uk at 17/04/2024 13:58:50. This drawing is reproduced from our records archive at the time of enquiry.

Ashdon Road

Elizabeth Close

Elizabeth Way

Radwinter Road

Thaxted Road

Horn Bank

Thaxted Spike

TBS NR FUSE 120
10 kVA
dd

N0017329-1

N0018415-1

N0008434-1

Pumping Station

Boundary Schedule:

A–B 1500mm metal railings on low retaining wall

B–C 1500mm metal railings

C–D metal gate

D–E 1.2m/1.5mm metal railings

E–F 1800mm new close boarded fence

F–G 1800mm new close boarded fence

G–H 1500mm new metal railings (TBC)

Planning Issues
Cedars Courtyard, CB9

Churchill
Retirement Living

Planning Title
PROPOSED REDEVELOPMENT TO FORM
66 ELDERLY PERSONS
1 BEDROOM
CB11 3JA

Drawing Title
SITE PLAN
PLANNING APPLICATION

Drawing No.
900105MI-PL03

Upper Ground Floor

Lower Ground Floor

Entrance

Communal Garden

Active Parking Spaces

Assembly

Lounge

Guest Suite

Plant

Store

Refuse

Cycle Parking

Electric Substation

Boundary Wall

Fence

Gate

Hedge

Tree

Footpath

Road

Building

Parking Spaces

Entrance

Exit

Pedestrian Access

Vehicular Access

Emergency Access

Fire Hydrant

Water Supply

Electricity Supply

Gas Supply

Telecoms

Drainage

Foul Water

Surface Water

Manhole

Inspection Chamber

Gully

Soakaway

Attenuation Tank

Pumping Station

Sub-Station

Transformer

Switchgear

Meter

Valve

Hydrant

Sprinkler

Alarm

Camera

Lighting

Bollard

Kerb

Footway

Carriageway

Verge

Boundary

Site Boundary

Red Line Boundary

Blue Line Boundary

Ownership Boundary

Adopted Boundary

Unadopted Boundary

Proposed Boundary

Existing Boundary

Demolition

Retained

Proposed

Existing

Scale 1:500

0 13 m

N0017329 - Recent revisions

N0017329rev

Rev	Comment	Revision History Date	Dsg. Appd
1.0	For RIS report	060424	AF AF

N0013555_E2 CB10 2GR

SSE Cross Section Of Dual HV Cable Ducted In Carriageway

Min 750mm Marker tape 150mm min 300mm

3 x 150mm RIGIDUCT

N0013555_E3 CB10 2GR

UKPN Cross Section Of Dual HV Cable Ducted In Footpath

Min 600mm Tile tape 100mm min 300mm

2 x 150mm RIGIDUCT

N0013555_E4 CB10 2GT

UKPN Cross Section Of Dual HV Cable Ducted In Footpath

Min 600mm Tile tape 100mm min 300mm

2 x 150mm RIGIDUCT

N0013555_E5 CB10 2GN

UKPN Cross Section Of Dual HV Cable Ducted In Footpath

Min 600mm Tile tape 100mm min 300mm

2 x 150mm RIGIDUCT

N0013555_E6 CB10 2GT

SSE Cross Section Of Dual HV Cable Ducted In Carriageway

Min 750mm Marker tape 150mm min 300mm

3 x 150mm RIGIDUCT

N0013555_E7 CB10 2GN

SSE Cross Section Of Dual HV Cable Ducted In Carriageway

Min 750mm Marker tape 150mm min 300mm

3 x 150mm RIGIDUCT

MMKJX CB11 3JP

MSDB Details	MMKJX	
Plot	Phase	Floor
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N0017329_Sub_Ashdon Road CB10 2GN.

Substation Details		
Way	Cable	Fuse (A)
1	240mm	315
2	300mm	500
3	300mm	315

Name:	Ashdon Road
Number:	
Ownership:	DNO_ENC
Transformer size (kVA):	500
LV cabinet:	4-way
LV fuse:	630
TLF size (A):	
Environ access:	Low
Environ assess:	Low
Building type:	Standard/Brickbuilt
Remarks:	
RMU #:	Schneider RN2c 7L/21
Intake RMU #1:	

MMXM7 CB11 3HY

MSDB Details	MMXM7	
Plot	Phase	Floor
Flat 1		
Flat 2		
Flat 3		
Flat 4		
Flat 5		
Flat 6		
Flat 7		
Flat 8		
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Flat 49		

MMKJY CB10 2JZ

MSDB Details	MMKJY	
Plot	Phase	Floor
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Guest Suite		

28-03-2024

This drawing is across multiple drawings for details please refer to all drawings in the series.

Electric Notes

Ducts and trenches for services and ducts that shall contain electric cables. Ducts to be sunlight with electric identifiable marker tape laid 250mm above the cable / duct. Electric mains and services should have a minimum of 250mm separation from any gas.

Ducting Specification

Directly buried cables should be surrounded by cable sand installed to a depth of 150mm above and below the cable. Cable sand shall not need to be placed on the bottom of the trench and a further 75mm above

- Ducting shall be:
- During the LV mains shall be >1mm rigid plastic during compliant with the EHE TA 12.01
- During for LV single phase services shall be 16mm outside diameter
- Ducting should be laid to a fall of 1:40
- Ducting should be used where taking cables across roads and into buildings
- Ducts are shown on the drawing as a thick black line
- Only one cable is allowed per duct.

Electric cable	Outside Diameter
Single Phase	160mm
3 Phase 1.0	160mm
HV	160mm

Service Sizes

Unless otherwise stated, 5 properties are single phase 100mm² Al Cable terminated in 100A BNJ but not limited where specified.

Cable Phasing Notation

For 3 phase LV network mains, the connected phases will be shown as follows: Red = R, Yellow = Y, Brown / Blue = BN, Black / Grey = BK, Green / Yellow = GY, Orange = O.

Material Specification

All cables, equipment and construction method on this network are to be compliant with ENA TS 12-24 Specification.

Excavation Carried Out by BUUK

The trenches highlighted in blue will be excavated and reinstated by BUUK Limited. The reinstatement and reinstatement of the other trenches will be the responsibility of the contractor.

Legend			
132kV Cable		Water Main	
33kV Cable		Gas Main	
11kV Cable		Telecom Duct	
6.6kV Cable		Electric Duct	
3.3kV Cable		Fibre Duct	
415V Cable		Foul Sewer	
HV Cross Cable		Surface Water Sewer	
LV Cable		Combined Sewer	
Major Earth Cable		Culvert	
Earth Cable			
Cable Joint		Fibre Box	
Pit Duct		Gas Valve	
Pit Duct Blocked by BUUK Contractors		Gas Box	
Road Boundary		Kiosk	
LV Pco Link Box		MSDB	
Link Box		Telecom Cabinet	
Box		Cellnex	
Streetlight		Network Boundary Point	
Abandoned		Meeting End Cap	
To Abandoned		Feeder Pillar	
To Disconnect			

Title Notice

The Ordnance Survey apparatus owned by the BUUK Group. Any third party apparatus indicated on these drawings is shown to indicative purposes only and is based on information provided to us. The accuracy cannot be guaranteed. No liability of any kind whatsoever is accepted by us, our agents, servants or sub-contractors for any error or omission. You must be used to verify and establish the actual position of apparatus. This plan is reproduced by the permission of Ordnance Survey on behalf of HMSO. © Crown copyright and database right 2017. All rights reserved Ordnance Survey Licence number 0100031673.

Third Party Apparatus

When apparatus have been laid it becomes the responsibility of the landowner to ensure that the apparatus is protected. Repairs should not be carried out as soon as possible. Replacement and repair of damaged apparatus, including administrative costs will be fully recharged to the landowner. It is the landowner's responsibility to restore the cover, form the kiss points.

Revision Notice

For a revision history of the network design please see separate revision notice document.

gtc
GTC, Wright Business Park, Nantwich, CW5 6GF
Tel: 01270 238333
www.gtc.co.uk

Last Edit By:	
Last Approved By	ALEX FRIEND
	Approved
OS Ref:	555125.238588
Location:	Radwinter Road, Saffron Walden, ESSEX, CB10 2JP
Developer/Client:	Linden Homes Eastern
Drawing Number/Title:	EN0017329-1_2_of_9_Rev1-0_appendix
Network Number:	N0017329
Project Number:	N0017329-1
Scale:	1:500
Sheet Size:	A0
Revision:	1-0

GTC Plant Enquiry. Our Ref 4253784, Your Ref 35803 generated for searches@cornerstoneprojects.co.uk at 17/04/2024 13:58:58. This drawing is reproduced from our records archive at the time of enquiry.

N0017329 - Recent revisions

N0017329/rev: | **Revision History**

Rev	Comment	Date	Dsg. Appd.
1.0	Ew RS report	09/2024	AP

MMKJY CB10 2JZ

MSDR Details | **MMKJY** | **Floor**
Plot | **Phase**

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Guest Suite

28-03-2024

This design is across multiple drawings for details please refer to all drawings in the set.

Electric Notes
Any electric cables, services and ducts that shall contain electric cables must be marked with electric identifiable marker tape laid 250mm above the cable / duct. Electric mains and services should have a minimum of 250mm separation from gas mains.

Backfill Specification
Directly buried cables should be surrounded by cable sand installed to BS 7370-4 and compacted to BS 7370-5. Cable sand shall be carefully placed on the bottom of the trench and a further 75mm above

Ducting Specification
- Ducting for LV mains shall be 150mm rigid plastic during compliant with the EHE TS 12-21
- Ducting for LV single phase services shall be 56mm outside diameter
- Ducting for HV cables shall be 150mm
- Ducting should be used where taking cables across roads and into buildings
- Ducts are shown on the drawing as a thick black line
- Only one cable is allowed per duct.

Electric cable	Outside Diameter
Single Phase	56mm
3 Phase LV	150mm
HV	150mm

Service Sizes
Typical service sizes to properties are single phase 100AT Al Cable terminated in 100A 95sp cut out (except where specified).
Typical service depth is 450mm.
On 3 phase LV service mains, the connected phases will be shown as R = red, Y = yellow, B = blue/ BR = black/ GY = grey.

Material Specification
All cables, equipment and construction method on this network are to be constructed to BUAK Specification.

Excavation Carried Out by BUAK
The trenches highlighted in blue will be excavated and reinstated by BUAK Authorised Ltd. Any subsequent reinstatement of the other trenches will be the responsibility of the contractor.

	Hv	Lv	LoE
132kV Cable			
66kV Cable			
33kV Cable			
22kV Cable			
11kV Cable			
6.6kV Cable			
LV 3 Core Cable			
LV 4 Core Cable			
Trifurc Earth Cable			
Fibre Optic			

Cable Joint
Pot End
Transformer
Operated by BUAK Contractors
Road Boundary
LV Mns Link Box
Mains Link Box
Wall
Streetlight
Pole Mounted
Abandoned
To Disconnect

Poles
Rear Box
Earth
HSDR
Underground
Cellars
Network Boundary Point
Planning Ref Fee
Needle Valve

Plan Notes
The plan shows apparatus owned by the BUAK Group. Any third party apparatus shown on this plan is given without warranty, for information only. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes are not normally accurately to the company. Safe digging practices, in accordance with HSE guidance note HSG47, must be used to verify and establish the presence of apparatus. The plan is reproduced by the permission of Ordnance Survey on behalf of HMSO. © Crown copyright and database right 2007. All rights reserved. Ordnance Survey Licence number 100022432.
Developers Responsibility
Where the development is adopted it will become the responsibility of the developer to ensure it is suitably protected, therefore backfilling should not take place until the developer has agreed to the location of all apparatus, including adoptedview costs will be fully recharged to the developer. It is also the developer's responsibility to recover the costs from the Plot Buyer.
Revision History
For a detailed history of the network design please see separate revision history document.

GTC, Westpitt Business Park, Witham, CM8 3QP
Tel: 01376 240363
www.gtc-uk.co.uk

Last Edit By:

Last Approved By ALEX FRIEND

Approved

OS Ref: 555599.238588

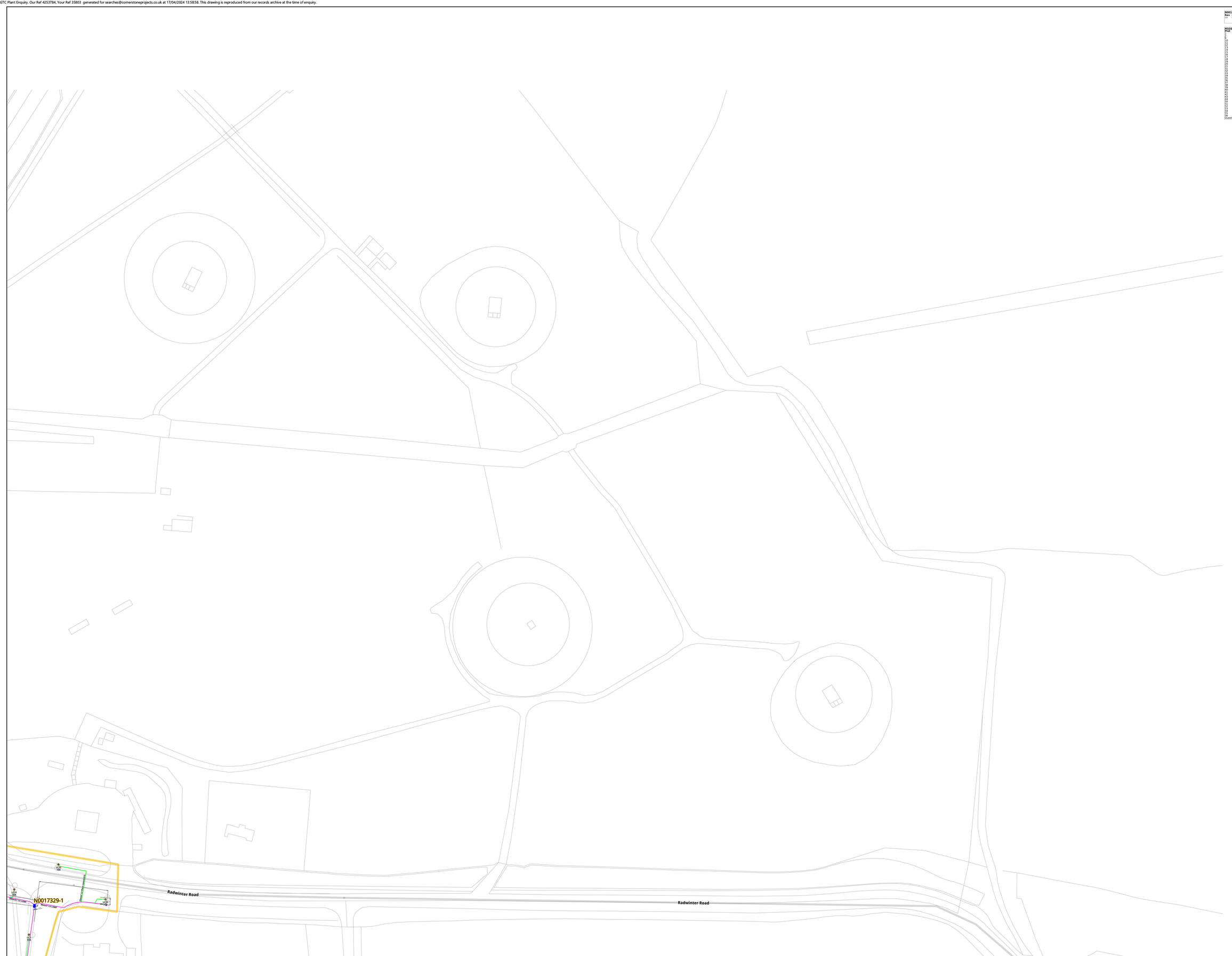
Location: Radwinter Road, Saffron Walden, ESSEX. CB10 2JP

Developer/Client: Linden Homes Eastern

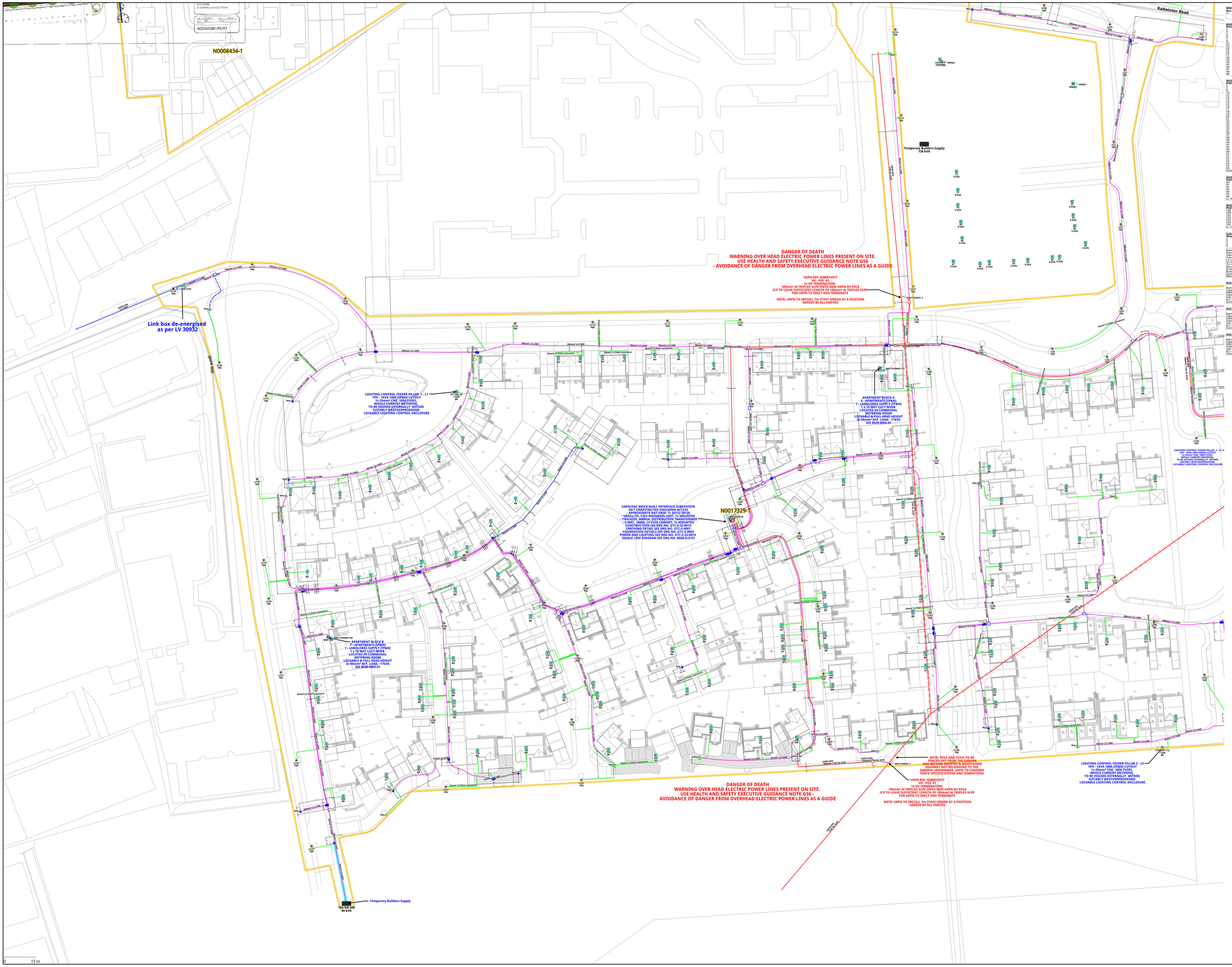
Drawing Number/Title: EN0017329-1_3_of_9_Rev1-0_appendix

Network Number:	Project Number:
N0017329	N0017329-1

Scale:	Sheet Size:	Revision:
1:500	A0	1-0



GTC Plant Enquiry. Our Ref 4253784, Your Ref 35803 generated for searches@cornerstoneprojects.co.uk at 17/04/2024 13:59:04. This drawing is reproduced from our records archive at the time of enquiry.



N0017329 - Recent revisions

N0017329/rev.	Revision History		
Rev	Comment	Date	Dsg. App.
1.0	Issued for Approval	28/03/24	AF AF

MMKJX CB11 3JP

MSDB Details MMKJX

Plot	Phase	Floor
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MMKJY CB10 2JZ

MSDB Details MMKJY

Plot	Phase	Floor
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Guest Suite

N0017329_MM117X CB10 2NG

MSDB Details MM117X

Plot	Phase	Floor
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LL 38-46 GY,BK,BK

N0017329_MM1180 CB11 3AJ

MSDB Details MM1180

Plot	Phase	Floor
180		
181		
190		
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192		
193		
194		
195		

LL 187-195 GY,BK,BK

N0017329_Sub_ CB10 2RB

Substation Details

Way	Cable	Fuse (A)
1	300mm	500
2	300mm	500
3	300mm	315
4	300mm	315

Name:
Number:
Manufacturer: DNO_ENC
Transformer size (kVA): 800
LV cabinet: 5-way
LV fuse:
TLF size (A):
Security assess:
Construction:
Building type: StandardBrickBuilt
Door type:
RMU: Ljcg VRN2a T1/31

N0017329_POC 3 CB10 2NG

POC Details

Name: POC 3
Capacity (kVA):
DNO ref: 8200012917
Voltage: 11kV
Volt drop (%): None
EU ref: None
Conn type: Pole termination

N0017329 CB11 3JN

POC Details

Name:
Capacity (kVA):
DNO ref: LV
Volt drop (%): 2.5
EU ref: None
Conn type: Branch Joint

N0017329_POC 1 CB10 2RB

POC Details

Name: POC 1
Capacity (kVA):
DNO ref: 8200012917
Voltage: 11kV
Volt drop (%): None
EU ref: None
Conn type: Pole termination

28-03-2024

This design is across multiple drawings for details please refer to all drawings.

Electric Notes
Any joint boxes, cable services and ducts that shall contain electric cables must be to suitable with electric identifiable marker type laid 250mm above the cable / duct. Electric mains and services should have a minimum of 250mm separation from any gas.

Backfill Specification
Directly buried cables should be surrounded by cable sand installed to BS 7671 Table 4A2 Installation Method 4. Cable sand to be 150mm deep to be placed on the bottom of the trench and a further 75mm above

Cable Specification
Ducting Specification
- Ducting for cable crossing shall be >16mm rigid plastic duting compliant with the EHA TS 12:21
- Ducting for LV single phase services shall be 56mm outside diameter
- Ducting for HV cables shall be 150mm dia
- Ducting should be used when taking cables across roads and into buildings
- Ducts to be screw on fire drawing as a thick black line
- Only one cable is allowed per duct.

Electric cable	Outside Diameter
Single Phase	56mm
3 Phase LV	150mm
HV	150mm

Service Sizes
Where a service serves 5 properties see single phase 300mm² Al Cable terminated in 100A Bay but cut (except where specified).
Jointing Specification
For 3ph or 4 wire mains, the connected phases will be shown as R = red, Y = yellow, B = blue, BK = black, GY = grey.
Material Specification
All cables, equipment and construction method on this network are to be constructed to BSEN standards.
Excavation Carried Out by BUAK
The trenches highlighted in blue will be excavated and reinstated by BUAK Contractors. The reinstatement and maintainment of the other trenches will be the responsibility of the contractor.

Legend			
132kV Cable		Boundary	
33kV Cable		Cable	
11kV Cable		Overhead Line	
6kV Cable		Fence	
3.3kV Cable		Hedge	
LV 3 Core Cable		Wall	
LV 4 Core Cable		Tarmac Path	
Tarmac Path Cable		Tarmac Road	
Cable Joint		Pole	
Pot End		Substation	
Transformer		Operated by BUAK Contractors	
Road Boundary		Area Box	
LV Mini Link Box		Kiosk	
Cable Link Box		MSDB	
Bank		Cabinet	
Floodlight		Network Boundary Point	
Abandoned		Starting Ref Cap	
To Abandoned		Feeder Pillar	
To Disconnect			

Plan Notice
This plan is the sole apparatus owned by the BUAK Group. Any third party apparatus indicated on these drawings is shown for indicative purposes only. The accuracy cannot be guaranteed. No liability of any kind whatsoever is accepted by the company. Safe digging practices, in accordance with HSE publication HSG47 avoiding danger from underground services, must be observed. This plan is reproduced by the permission of Ordnance Survey on behalf of HMSO. © Crown copyright and database right 2021. All rights reserved. Ordnance Survey Licence number 0100031673.
Revision Notice
Where apparatus have been laid it becomes the responsibility of the contractor to ensure that the information shown on this plan is updated to be carried out as soon as possible. Replacement and repair of damaged apparatus will be the responsibility of the contractor. If damage occurs to developer, it will be the developer's responsibilities assume the costs from the third parties.
Revision Notice
For a revision history of the network design please see separate revision history document.

GTC, Westpitt Business Park, Saffron Walden, CB10 2GP
Tel: 01799 240383
www.gtc-uk.co.uk

Last Edit By:	
Last Approved By	ALEX FRIEND
Approved	
OS Ref:	555125,238215
Location:	Radwinter Road, Saffron Walden, ESSEX. CB10 2JP
Developer/Client:	Linden Homes Eastern
Drawing Number/Title:	EN0017329-1_4_of_9_Rev1-0_appendix
Network Number:	N0017329
Project Number:	N0017329-1
Scale:	1:500
Sheet Size:	A0
Revision:	1-0

GTC Plant Enquiry. Our Ref 4253784, Your Ref 35803 generated for searches@cornerstoneprojects.co.uk at 17/04/2024 13:59:12. This drawing is reproduced from our records archive at the time of enquiry.

Radwinter Road

Radwinter Road

DANGER OF DEATH
WARNING OVER HEAD ELECTRIC POWER LINES PRESENT ON SITE.
USE HEALTH AND SAFETY EXECUTIVE GUIDANCE NOTE GS6
- AVOIDANCE OF DANGER FROM OVERHEAD ELECTRIC POWER LINES AS A GUIDE

UKPN REF. 6200012917
11 KV POLE
TO HV TERMINATION
185mm² Al TRIPLEX XLPE ONTO NEW UKPN HV POLE
1CP TO LEAVE SUFFICIENT LENGTH OF 185mm² Al TRIPLEX XLPE
FOR UKPN TO ERECT AND TERMINATE

NOTE: UKPN TO INSTALL 7m STAYS SPREAD AT A POSITION
AGREED BY ALL PARTIES

UKPN TO AGREE AND COMPLETE ANY DIVERSIONARY WORKS
DUE TO THE POSITIONING OF THE NEW POLE. COSTS TO BE AGREED
BETWEEN ALL PARTIES.

N0017329-1

N0017329POC 2

LIGHTING CONTROL FEEDER PILLAR 2 - L2
SP4 - 100A 100A SP&N CUTOUT
½-95mm² CNE, 100A FUSES,
CURRENT METERING,
TO BE HOUSED EXTERNALLY WITHIN
SUITABLY WEATHERPROOFAND
LOCKABLE LIGHTING CONTROL ENCLOSURE

TROL FEEDER PILLAR 3 - L3
A 100A [SP&N] CUTOUT
½-95mm² CNE,
URRENT METERING,
ED EXTERNALLY WITHIN
WEATHERPROOFAND
TING CONTROL ENCLOSURE

0 13 m

N0017329 - Recent revisions

N0017329notes:

Revision History

Rev	Comment	Date	Dsg. Appd
1.0	For ES report	08/2024	AF AF

MMKJY CB10 2JZ

MSDR Details

Plot	HHKGY Phase	Floor
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Guest Suite		

N0017329_POC 2 CB10 2LB

POC Details

Name:	POC 2
Capacity (kVA):	
Cable ref:	N0017329|7
Voltage:	11kV
Fuse rating:	None
ELI (PME):	None
Conn type:	Pole termination

28-03-2024

This design is across multiple drawings for details please refer to all drawings in the set.

Electric Notes
Plot connections to services and ducts that shall contain electric cables. Ducts are to contain 4th electric identifiable marker tape laid 250mm above the cable / duct. Electric mains and services should have a minimum of 250mm separation from any gas utility.

BS4191 Specification
Directly buried cables should be surrounded by cable sand installed to BS 7533-10 and be a minimum depth of 450mm. Cable sand is not required to be placed on the bottom of the trench and a further 75mm above

Ducting Specification
Ducting for electric mains shall be 150mm rigid plastic during compliant with the EHE 70 12-21
- Ducting for LV single phase services shall be 56mm outside diameter
- Ducting for LV 3 phase is 150mm
- Ducting should be used when taking cables across roads and into buildings
- Ducts are shown on the drawing as a thick black line
- Only one cable is allowed per duct.

Electric cable	Outside Diameter
Single Phase	56mm
3 Phase LV	150mm
HV	150mm

Service Sizes
Typical Service Sizes: 3 properties are single phase 100mm² Al Cable terminated in 100 amp cut out (except where specified).
All 3 phase cables are 185mm².
On 3 phase connection mains, the connected phases will be shown as Red = R, Yellow = Y, Blue = B, Green = G, Black = BK, Grey = gray.

Material Specification
All cables, equipment and construction method on this network are to be compliant with the EHE 70 12-21 publication.

Excavation Carried Out by BUUK
The trenches highlighted in blue will be excavated and reinstated by BUUK Infrastructure. The reinstatement / reinstatement of the other trenches will be the responsibility of the contractor.

	Single Line	Cable
132kV Cable		
66kV Cable		
33kV Cable		
22kV Cable		
11kV Cable		
6.6kV Cable		
LV 3 Core Cable		
LV Mains		
Future Build Cable		
Cable Joint		
Pot End		
Transformer		
Operated by BUUK Contractors		
Road Boundary		
11 Way Link Box		
Link Link Box		
Earth		
Floodlight		
Abandoned		
Abandoned To Disconnect		

Cable Joint
Pot End
Transformer
Operated by BUUK Contractors
Road Boundary
11 Way Link Box
Link Link Box
Earth
Floodlight
Abandoned
Abandoned To Disconnect

Meter Box
Kiosk
RMU
Switchgear
Network Boundary Point
Stay
Steering Rod Eye
Needle Valve

Plan Notes
This plan shows apparatus owned by the BUUK Group. Any third party apparatus shown on this plan is given for guidance only and without liability for accuracy. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service connections are not accurately located by the company. Safe digging practices, in accordance with HSE publication HSG47, must be used to verify and establish the presence of apparatus. This plan is reproduced by the permission of Ordnance Survey on behalf of HMSO. © Crown copyright and database right 2021. All rights reserved. Ordnance Survey Licence number 100022432.
Developers Responsibility
Where apparatus is affected, it will become the responsibility of the developer to ensure it is suitably protected, therefore backfilling should not commence until the developer has inspected the apparatus and taken appropriate, including safe/protective costs will be fully recharged to the developer. This does not affect the developer's responsibilities recover the costs from the statutory undertaker.
For a detailed history of the network design please see separate revision history document.

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Last Edit By:

Last Approved By ALEX FRIEND

Approved

OS Ref: 555599,238215

Location: Radwinter Road, Saffron Walden, ESSEX, CB10 2JP

Developer/Client:
Linden Homes Eastern

Drawing Number/Title:
EN0017329-1_5_of_9_Rev1-0_appendix

Network Number: N0017329

Project Number: N0017329-1

Scale: 1:500

Sheet Size: A0

Revision: 1-0

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N0017329 - Recent revisions

N0017329rev:	Revision History		
Rev	Comment	Date	Dsp. Appr.
1.0	Ew fds issued	060324	AF AF

N0017329_Sub_ CB10 2RB

Substation Details

Way	Cable	Fuse (A)
1	300mm	500
2	300mm	500
3	300mm	315
4	300mm	315

Name:
Manufacturer:
Ownership: DNO_ENC
Substation type size (kVA): 800
LV cabinet: 5-way
LV fuse:
TLF size (A):
Security assess:
Building owner:
Building type: StandardBrickBuilt
Door type:
RMU: serv VRN2e 7/3/21

N0017329_POC 3 CB10 2NG

POC Details

Name: POC 3
Capacity (kVA): 1000
ONO ref: 8200012917
Volt drop (%): 3.0
Volt drop (%): None
(EU only): None
Conn type: Pole termination

N0017329 CB11 3JN

POC Details

Name:
Capacity (kVA):
ONO ref: LV
Volt drop (%): 3.0
(EU only): None
Conn type: Branch joint

N0017329_POC 1 CB10 2RB

POC Details

Name: POC 1
Capacity (kVA): 1000
ONO ref: 8200012917
Voltage: 11kV
Volt drop (%): None
(EU only): None
Conn type: Pole termination

28-03-2024

This design is across multiple drawings for details please refer to all drawings in the set.

Electric Notes
Any buried electric services and ducts that shall contain electric cables must be marked with electric identifiable marker type tape laid 250mm above the cable / duct. Electric mains and services should have a minimum of 250mm separation from gas mains.

Backfill Specification
Directly buried cables should be surrounded by cable sand installed to BS 7370-4 Table 1 and Clause 6.2.2.1 and 6.2.2.2. Cable sand shall extend to be placed on the bottom of the trench and a further 75mm above the cables and ducts.

Ducting Specification
- Ducts for LV single phase mains shall be 150mm rigid plastic duting compliant with the ENA TS 12-24
- Ducting for LV single phase services shall be 56mm outside diameter corrugated plastic duct to ENA TS 12-24
- Ducting should be used where taking cables across roads and into buildings
- Ducts to be screen on the drawing as a thick black line
- Only one cable is allowed per duct.

Electric cable	Outside Diameter
Single Phase	56mm
3 Phase 1.0	150mm
185	150mm

Service Sizes
Unless otherwise stated, 3 properties are single phase 100mm² Al Cable terminated in 100A 3Wp cut out (except where specified).
Phasing of Supplies
For 3 phase LV network mains, the connected phases will be shown as R=red, W=white, B=blue, shown: BR = black/ GY = grey
Material Specification
All cables, equipment and construction method on this network are to be compliant with the latest WPD standards.
Excavation Carried Out by BUAK
The trenches highlighted in blue will be excavated and reinstated by BUAK Contractors. Any damage caused by reinstatement of the other trenches will be the responsibility of the contractor.

	Image Type	LV
132kV Cable		
33kV Cable		
11kV Cable		
EHV Cable		
HV Cable		
6.6kV Cable		
LV 3 Core Cable		
LV Service		
Future Earth Cable		
Earth Wire		
Cable Joint	Pole	Cable
Pot End	Transformer	Meter
Link Box	Switch	Main Fuse
Operated by BUAK Contractors	Main Switch	Main Box
Asset Boundary	Fuse	Joint
HV Mvy Link Box	Recloser	MSDB
Mvy Link Box	Sectionaliser	Distribution Board
Bank	Isolator	Inline
Floodlight	Earth	Network Boundary Point
Abandoned	Earthing Rod	Earthing Rod Tee
Abandoned To Disconnect	Feeder Pillar	Feeder Pillar

Plan Notes:
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Plan Accuracy:
When apparatus have been laid it becomes the responsibility of the owner/occupier to have the position of the apparatus accurately located on carried out as soon as possible. Replacement and repair of damaged apparatus, including subsequent excavations will be fully recharged to the owner/occupier. BUAK Contractors Intermediary income for costs.
Revision Details:
For a revision history of this network design please see separate revision control document.

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Last Edit By:	
Last Approved By	ALEX FRIEND
Approved	
OS Ref:	555125.238213
Location:	Radwinter Road, Saffron Walden, ESSEX, CB10 2JP
Developer/Client:	Linden Homes Eastern
Drawing Number/Title:	EN0017329-1_6_of_9_Rev1-0_Contestable_LV
Network Number:	N0017329
Project Number:	N0017329-1
Scale:	1:500
Sheet Size:	A0
Revision:	1-0

0 13 m

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Ashdon Road

Elizabeth Close

Elizabeth Way

Radwinter Road

The Spike

Horn Bank

N0017329 - Recent revisions

N0017329Desc.	Revision History	
Rev	Comment	Date Dsp. Appr.
L.0	Ew RS Input	09/2021 AP AP

N0013555_E2 CB10 2GR

SSE Cross Section Of Dual HV Cable Ducted In Carriageway

N0013555_E3 CB10 2GR

UKPN Cross Section Of Dual HV Cable Ducted In Footpath

N0013555_E4 CB10 2GT

UKPN Cross Section Of Dual HV Cable Ducted In Footpath

N0013555_E5 CB10 2GN

UKPN Cross Section Of Dual HV Cable Ducted In Footpath



N0013555_E6 CB10 2GT

SSE Cross Section Of Dual HV Cable Ducted In Carriageway

N0013555_E7 CB10 2GN

SSE Cross Section Of Dual HV Cable Ducted In Carriageway

N0017329_Sub_Ashdon Road CB10 2GN

Substation Details

Way	Cable	Fuse (A)
1	300mm	315
2	300mm	315
3	300mm	315

Name: Ashdon Road
Number:
Ownership: DNO_ENC
Primary transformer size (kVA): 1 x 1MVA
LV cabinet: 4-way
CT rating (A): 500
Security assess: Low
Environ assess: Low
Door type: StandardBrickBuilt
Door Tube:
RMU: Schneider RN2c T1/21
Intake RMU #1:

Plan Notes

The plan shows apparatus owned by the BUAK Group. Any third party apparatus shown is based on information supplied to us and is indicative only. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service connections are not accurately located on the company. Safe digging practices, in accordance with HSE publication HSG47, must be employed to verify and establish the actual position of apparatus. The plan is reproduced by the permission of Ordnance Survey on behalf of HMSO. © Crown copyright and database right 2007. All rights reserved. Ordnance Survey Licence number 100022432.

Developers Responsibility

Where the development site plan is received it becomes the responsibility of the developer to ensure it is suitably protected, therefore backfilling should not commence until our apparatus has been inspected by our staff. Any damage to our apparatus, including safe/avoidance costs will be fully recharged to the developer. It is also the developer's responsibility to recover the costs involved in this work.

Revision History

For a complete history of the network design please see separate revision history document.

Service Notes

Electric cables, services and ducts that shall contain electric cables must be buried with electric identifiable marker tape laid 250mm above the cable / duct. Electric mains and services should have a minimum of 250mm separation from gas mains.

BUAK Specification

Directly buried cables should be surrounded by cable sand installed to BUAK Spec. Cable sand should be sieved to 5mm. A 150mm layer should be placed on the bottom of the trench and a further 75mm above the cable / duct.

Ducting Specification

- Ducting for HV mains shall be 150mm rigid plastic duting compliant with the ENA TS 12-24
- Ducting for LV single phase services shall be 56mm outside diameter corrugated plastic ducting to BS EN 61386
- Ducting should be used when taking cables across roads and into buildings
- Ducts are shown on the drawing as a thick black line
- Only one cable is allowed per duct.

Electric cable	Outside Diameter
Single Phase	56mm
3 Phase LV	150mm
HV	150mm

Service Sizes

Unless otherwise stated, 3 properties are single phase 100AF Al Cable terminated in 100A 95sp cut out (except where specified).

Multiple Dwelling Supplies

For 100A (3 phase) mains, the connected phases will be shown as R1, R2, R3, Y1, Y2, Y3, B1, B2, B3 + grey.

Material Specification

All cables, equipment and construction method on this network are to be installed to BUAK Spec unless stated.

Excavation Carried Out by BUAK

The trenches highlighted in blue will be excavated and reinstated by BUAK Group. Any excavation and reinstatement of the other trenches will be the responsibility of the customer.

Cable	Duct
132kV Cable	132kV Duct
66kV Cable	66kV Duct
33kV Cable	33kV Duct
11kV Cable	11kV Duct
HV Cable	HV Duct
4 Core Cable	4 Core Duct
Fibre Cable	Fibre Duct
Trifurcate Pit	Trifurcate Duct
Cable Joint	Water Main
Air Duct	Gas Main
Pilot Wire	Electric Main
Operated by BUAK Contractors	Telecom Duct
Rural Boundary	Earth
LV Pole Link Box	HV/LV Transformer
Link Box	Substation
Streetlight	Network Boundary Point
Abandoned	Electricity Pylon
Abandoned To Disconnect	Feeder Pillar

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28-03-2024

This design is across multiple drawings for details please refer to all drawings in the set.

Electric Notes

Electric cables, services and ducts that shall contain electric cables must be buried with electric identifiable marker tape laid 250mm above the cable / duct. Electric mains and services should have a minimum of 250mm separation from gas mains.

BUAK Specification

Directly buried cables should be surrounded by cable sand installed to BUAK Spec. Cable sand should be sieved to 5mm. A 150mm layer should be placed on the bottom of the trench and a further 75mm above the cable / duct.

Ducting Specification

- Ducting for HV mains shall be 150mm rigid plastic duting compliant with the ENA TS 12-24
- Ducting for LV single phase services shall be 56mm outside diameter corrugated plastic ducting to BS EN 61386
- Ducting should be used when taking cables across roads and into buildings
- Ducts are shown on the drawing as a thick black line
- Only one cable is allowed per duct.

Electric cable	Outside Diameter
Single Phase	56mm
3 Phase LV	150mm
HV	150mm

Service Sizes

Unless otherwise stated, 3 properties are single phase 100AF Al Cable terminated in 100A 95sp cut out (except where specified).

Multiple Dwelling Supplies

For 100A (3 phase) mains, the connected phases will be shown as R1, R2, R3, Y1, Y2, Y3, B1, B2, B3 + grey.

Material Specification

All cables, equipment and construction method on this network are to be installed to BUAK Spec unless stated.

Excavation Carried Out by BUAK

The trenches highlighted in blue will be excavated and reinstated by BUAK Group. Any excavation and reinstatement of the other trenches will be the responsibility of the customer.

Cable	Duct
132kV Cable	132kV Duct
66kV Cable	66kV Duct
33kV Cable	33kV Duct
11kV Cable	11kV Duct
HV Cable	HV Duct
4 Core Cable	4 Core Duct
Fibre Cable	Fibre Duct
Trifurcate Pit	Trifurcate Duct
Cable Joint	Water Main
Air Duct	Gas Main
Pilot Wire	Electric Main
Operated by BUAK Contractors	Telecom Duct
Rural Boundary	Earth
LV Pole Link Box	HV/LV Transformer
Link Box	Substation
Streetlight	Network Boundary Point
Abandoned	Electricity Pylon
Abandoned To Disconnect	Feeder Pillar

Last Edit By:

Last Approved By ALEX FRIEND

Approved

OS Ref: 555125,238585

Location: Radwinter Road, Saffron Walden, ESSEX. CB10 2JP

Developer/Client:

Linden Homes Eastern

Drawing Number/Title: EN0017329-1_7_of_9_Rev1-0_Contestable_HV_

Network Number:	Project Number:
N0017329	N0017329-1
Scale: 1:500	Sheet Size: A0
	Revision: 1-0

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N0017329 - Recent revisions

N0017329rev:	Revision History		
Rev	Comment	Date	Dsp. App.
1.0	For RS Insert	08/04/24	AF AF

N0017329_Sub_ CB10 2RB

Substation Details

Way	Cable	Fuse (A)
1	300mm	500
2	300mm	500
3	300mm	315
4	300mm	315

Name:
Manufacturer:
Ownership: DNO_ENC
Transformer size (kVA): 800
LV cabinet: 5-way
LV fuses:
TLF size (A):
Security assess:
Substation type:
Building type: StandardBrickBuilt
Door type:
RMU: serv VRN2e 7/3/21

N0017329_POC 3 CB10 2NG

POC Details

Name: POC 3
Capacity (kVA):
DNO ref: 8200012917
Volt drop (%): None
Volt drop (%):
Conn type: Pole termination

N0017329 CB11 3JN

POC Details

Name:
Capacity (kVA):
DNO ref: LV
Volt drop (%): 3.0
(EU) Unom: 400
Conn type: Branch joint

N0017329_POC 1 CB10 2RB

POC Details

Name: POC 1
Capacity (kVA):
DNO ref: 8200012917
Voltage: 132V
Volt drop (%): None
Volt drop (%):
Conn type: Pole termination

28-03-2024

This design is across multiple drawings for details please refer to all drawings in the set.

Electric Notes
Any buried electric services and ducts that shall contain electric cables must be marked with electric identifiable marker tape laid 250mm above the cable / duct. Electric mains and services should have a minimum of 250mm separation from gas mains.

Backfill Specification
Directly buried cables should be surrounded by cable sand installed to BS 7533-13 and should be a minimum of 100mm thick. Cable sand should be placed on the bottom of the trench and a further 75mm above

Cable Specification
Ducting for LV cables
- Ducting shall be 150mm rigid plastic duting compliant with the ENA TS 12-24
- Ducting for LV single phase services shall be 56mm outside diameter
- Ducting for LV 3 phase 4 wire 11kV
- Ducting should be used where taking cables across roads and into buildings
- Ducts are shown on the drawing as a thick black line
- Only one cable is allowed per duct.

Electric cable	Outside Diameter
Single Phase	56mm
3 Phase 1.0	150mm
185	150mm

Service Sizes
Unless otherwise stated, 3 properties are single phase 100mm² Al Cable terminated in 100A 3Ntp cut out (except where specified).
Assumed 80% diversity.
For 3ph or 4 connection mains, the connected phases will be shown as L1 = red, L2 = yellow, L3 = blue, N = black, SP = grey.

Material Specification
All cables, equipment and construction method on this network are to be compliant with ENA TS 12-24 unless stated.

Excavation Carried Out by BUUK
The trenches highlighted in blue will be excavated and reinstated by BUUK. Any damage to the surface reinstatement of the other trenches will be the responsibility of the contractor.

	Low Voltage	HV
132V Cable		
400V Cable		
11kV Cable		
33kV Cable		
66kV Cable		
132kV Cable		
HV 3 Core Cable		
Future Cable		
Future Earth Cable		
Cable Joint	Pillar	
Pot End	Fuse	
Transformer	Switch	
Operated by BUUK Contractors	Main Box	
Feed Boundary	Link	
LV Mix Link Box	MSDB	
Mains Link Box	Cutout	
Mast	Inline	
Floodlight	Network Boundary Point	
Abandoned	Starting Ref Fuse	
Abandoned	Feeder Pillar	
To Disconnect		

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Damage to Apparatus
When apparatus have been laid it becomes the responsibility of the landowner to ensure that the apparatus is not damaged. Reinstatement to be carried out as soon as possible. Replacement and repair of damaged apparatus, including administrative costs will be fully recharged to the landowner. BUUK will not be addressee's responsibility income for costs.
Revision Details
For a revision history of this network design please see separate revision control document.

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Last Edit By:	
Last Approved By	ALEX FRIEND
Approved	
OS Ref:	555125.238213
Location:	Radwinter Road, Saffron Walden, ESSEX, CB10 2JP
Developer/Client:	Linden Homes Eastern
Drawing Number/Title:	EN0017329-1_8_of_9_Rev1-0_Contestable_HV
Network Number:	N0017329
Project Number:	N0017329-1
Scale:	1:500
Sheet Size:	A0
Revision:	1-0

0 13 m

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Radwinter Road

Radwinter Road

DANGER OF DEATH
WARNING OVER HEAD ELECTRIC POWER LINES PRESENT ON SITE.
USE HEALTH AND SAFETY EXECUTIVE GUIDANCE NOTE GS6
- AVOIDANCE OF DANGER FROM OVERHEAD ELECTRIC POWER LINES AS A GUIDE

UKPN EPN 185mm² 11kV AL XLPE

UKPN EPN 185mm² 11kV AL XLPE

UKPN EPN 185mm² 11kV AL XLPE

N0017329POC 2

UKPN REF: 8200012917
HV - POC #2
- 1x HV TERMINATION
- 185mm² Al TREFLEX XLPE ONTO NEW UKPN HV POLE
ICP TO LEAVE SUFFICIENT LENGTH OF 185mm² Al TRIPLEX XLPE
FOR UKPN TO ERECT AND TERMINATE

NOTE: UKPN TO INSTALL 7m STAYS SPREAD AT A POSITION
AGREED BY ALL PARTIES

UKPN TO AGREE AND COMPLETE ANY DIVERSIONARY WORKS
DUE TO THE POSITIONING OF THE NEW POLE. COSTS TO BE AGREED
BETWEEN ALL PARTIES.

LIGHTING CONTROL FEEDER PILLAR 2 - L2
1PH - 16KA 100A (SPAN) CUTOUT
3rd CNE, 100A FUSES,
SINGLE CURRENT METERING,
TO BE HOUSED EXTERNALLY WITHIN
A WEATHERPROOF AND
LOCKABLE LIGHTING CONTROL ENCLOSURE

TROL FEEDER PILLAR 3 - L3
, 100A (SPAN) CUTOUT
3rd CNE, 100A FUSES,
CURRENT METERING
ED EXTERNALLY WITHIN
WEATHERPROOF AND
TING CONTROL ENCLOSURE

0 13 m

N0017329 - Recent revisions

N0017329rev: — **Revision History**

Rev	Comment	Date	Dsg. Appr.
1.0	Kew RA Issued	09/04/24	AP AP

N0017329_POC 2 CB10 2LB

POC Details

Name:	POC 2
Capacity (kVA):	
DNO ref:	8200012917
Voltage (kV):	11kV
Volt drop (%):	None
ELI (mΩ):	None
Conn type:	Pole termination

28-03-2024

This design is across multiple drawings for details please refer to all drawings in the set.

Electric Notes
Any electric cables, services and ducts that shall contain electric cables must be overlaid with electric identifiable marker tape laid 250mm above the cable / duct. Electric mains and services should have a minimum of 250mm separation from other utility.

BS1439 Specification
Directly buried cables should be surrounded by cable sand installed to BS 1439. Cable sand should be sieved to 5mm and 2mm. Cable sand should be placed in the bottom of the trench and a further 75mm above

Ducting Specification
Ducting for electric mains shall be >50mm rigid plastic during compliant with the EHA TS 12:21
- Ducting for LV single phase services shall be 38mm outside diameter
- Ducting for HV cables shall be 150mm
- Ducting should be used where taking cables across roads and into buildings
- Ducts are shown on the drawing as a thick black line
- Only one cable is allowed per duct.

Electric cable	Outside Diameter
Single Phase	38mm
3 Phase LV	>50mm
HV	>50mm

Service Sizes
Service cables to 3 properties are single phase 35mm² Al Cable terminated in 100 Amp cut out (except where specified).
Service Cable Colours
On 3 phase connection mains, the connected phases will be shown as R = red, Y = yellow, B = blue, Shown: BR = black/ GY = grey

Material Specification
All cables, equipment and construction method on this network are to be compliant with ENA TS 12:21 Publication.

Excavation Carried Out by BUAK
The trenches highlighted in blue will be excavated and reinstated by BUAK Contractors. The quality and reinstatement of the other trenches will be the responsibility of the contractor.

	Legend		Legend
132kV Cable		Proposed	
33kV Cable		Existing	
11kV Cable			
6.6kV Cable			
6.6kV Cable			
LV 3 Core Cable			
LV Service			
Unique Plot Cable Reference Number			
Cable Joint		Pole	
Pot End		Pole No.	
Transformer		Power Flow	
Operated by BUAK Contractors		Poles No.	
Road Boundary		Earth	
LV Mini Link Box		HSDR	
Mini Link Box		Earthwire	
Bank		Cables	
Streetlight		Network Boundary Point	
Abandoned		Electric Cable	
Abandoned To Disconnect		Electric Fence	
		Feeder Pillar	

Plan Note:
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Developers Responsibility
Once the network design is issued and it becomes the responsibility of the developer to ensure that the network is constructed as per the design and the cables are protected as much as possible. Replacement and reuse of damaged apparatus, including administrative costs will be fully recharged to the developer. It is also the developer's responsibility recover the costs from the road users.
Network Revisions
For a version history of this network design please see seperate revision history document.

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Last Edit By:

Last Approved By ALEX FRIEND

Approved

OS Ref: 555599,238213

Location: Radwinter Road, Saffron Walden, ESSEX, CB10 2JP

Developer/Client:

Linden Homes Eastern

Drawing Number/Title:
EN0017329-1_9_of_9_Rev1-0_Contestable_HV_

Network Number:	Project Number:
N0017329	N0017329-1

Scale:	Sheet Size:	Revision:
1:500	A0	1-0

GTC Plant Enquiry. Our Ref 4253784, Your Ref 35803 generated for searches@cornerstoneprojects.co.uk at 17/04/2024 13:58:08. This drawing is reproduced from our records archive at the time of enquiry.

Radwinter Road
Elizabeth Way
The Spike
Hoten Brook
Shire Hill
Churchill
N0008434-1
N0018415-1
N0017329-1
SITE PLAN - 1:200
2
3
4
0
19 m

16-12-2022

This design is across multiple drawings for details please refer to all drawings.

Gas Notes

All gas risers and ducts that shall contain a gas main must be overlaid with an identifiable metallic tape 200mm above the apparatus. All gas risers and ducts that shall contain a gas service must be overlaid with gas identification tape 200mm above the apparatus. All gas risers and ducts that shall contain a gas pipe should have a minimum of 25mm clearance between the pipe and the duct.

Minimum Proximity to Properties

Diameter of Gas Main (MP)	Minimum Building Proximity (m)		
	≤ 0.75 Bar	> 0.75 Bar ≤ 2 Bar (> 7.5 bar ≤ 2 bar)	> 2 Bar ≤ 5.5 Bar (> 7 bar ≤ 7 bar)
Up to 125	0.25	2	4	5
ONLY to 160	1	2	4	5
ONLY to 500	1	2	4	5
ONLY to 1000	1	2	10	15

During Construction

- Ducting for mains must be yellow and not perforated and only used perpendicular carriageway crossings.
- Ducting for services must be yellow and perforated along its entire length.
- Only one pipe is allowed per duct.

Gas Pipe External Diameter	Duct Inside Diameter
25mm ≤ 32mm	50mm
63mm	100mm
90mm	150mm
125mm	200mm
180mm ≤ 250mm	300mm
315mm	450mm

Meter Positions

Meters should be in boxes any position where damage could occour. Internally in cupboards, shall be avoided.
Both concealed Universal meter boxes shall not:
- Be sited in bathrooms
- Overcrowded
- Be sited in bedrooms
- Be in the hazard

Material Specification

For Gas Mains Installation please refer to GG-PSC-ES-0002 Gas Materials Purchase - Standards & Specifications

Responsibility for Backfilling

The trenches highlighted in blue will be excavated and reinstated by BUSK contractors, the excavation and reinstatement of the other trenches will be the responsibility of the customer.

Proposed / Laid

MP Pipe + Tee
MP Pipe - Tee
MP Pipe + 3 Tee
MP Pipe + 5 Tee
Service Pipe
Service Tee

Boundary by Busk Contractors
Asset Boundary
Pressure Reduction Station
Governor
Open / Closed Valve
Network Boundary Point
After IGT Boundary
Meter Point
To Disconnect

Semi Connected
Ducts
Internal
Abandoned
Modified
Plant Load
Unless
Surface Mounted
Riser Gas

Plan Notice

This plan shows apparatus owned by the BUSK Group. Any third party who requires information about apparatus in the area should contact us only. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes are not normally accepted by the company. Safe digging practices, in accordance with HSG47, must be used to verify and establish the actual position of apparatus. This plan is reproduced by the permission of Ordnance Survey on behalf of HMSO. © Crown copyright and database right 2007. All rights reserved. Ordnance Survey Licence number 100022432.

Developers Responsibility

Before any excavation work start it becomes the responsibility of the developer to ensure it is suitably protected, therefor backfilling should be undertaken by the developer's contractor. Any damage to the apparatus, including administrative costs will be fully recharged to the developer. It will be the developer's responsibilities recover the costs from the third party.

Revision Notes

For detailed revisions of this network design please see seperate revision history document.

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Last Edit By:	
Last Approved By	BINAYA TAMRAKAR 16-12-2022
	Approved
OS Ref:	555236,238257
Location:	Radwinter Road, Saffron Walden, ESSEX. CB10 2JP
Developer/Client:	Linden Homes Eastern
Drawing Number/Title:	N0017329-1_1_of_4_Entire_site_appendix
Network Number:	N0017329
Project Number:	N0017329-1
Scale:	1:750
Sheet Size:	A0
Revision:	4-1

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N0013555-1

N0018415-1

N0008434-1

N0017329-1

Elizabeth Close

The Spike

Radwinter Road

16-12-2022

This design is across multiple drawings for details please refer to all drawings.

Gas Notes

All gas trenches and ducts that shall contain a gas main must be overlaid with yellow multiple marker tape 200mm above the apparatus. All gas services and ducts that shall contain a gas service must be overlaid with gas service marker tape 200mm above the apparatus. All gas services and ducts that shall contain a gas pipe should have a minimum of 200mm clearance from other services.

Minimum Proximity to Properties

Diameter of Gas Main MPA	Minimum Building Proximity (m)		
	≤ 0.75 Bar	> 0.075 Bar ≤ 2 Bar / ≤ 2.5 Bar	> 0.5 Bar ≤ 5 Bar / ≤ 7 Bar
Up to 125	0.25	2	4
Up to 250	1	2	4
354 to 500	1	2	4
501 to 1000	1	5	15

During Construction

- Ducting for mains must be yellow and not perforated and only used perpendicular carriageway crossings.
- Ducting for services must be yellow and perforated along its entire length.
- Only one pipe is allowed per duct.

Gas Pipe External Diameter	Duct Inside Diameter
25mm & 32mm	50mm
63mm	100mm
90mm	150mm
125mm	200mm
180mm & 250mm	300mm
315mm	450mm

Meter Positions

Meters should be in boxes any position where damage could occur, especially from vehicles, shall be avoided.

Kerb concealed Universal meter boxes shall not:

- Be sited in carriageway
- Overgrowned
- Be sited in soil
- Sink or tip hazard

Service Specification

For Gas Service Specification please refer to GG-PSC-ES-0002 Gas Services Purchase - Standards & Specifications

Responsibility for Future Repairs

The services highlighted in blue will be excavated and reinstated by BUAK contractors, the excavation and reinstatement of the other trenches will be the responsibility of the customer.

Proposed / Laid

MP Pipe + Text
MP Pipe - Text
MP Pipe + 3 Pulse
MP Pipe + 5 Pulse
Service Pipe
Service Text

Boundary by Asset Contractors
Asset Boundary
Pressure Reducing Station
Pressure Reduction Station
Valve
Open / Closed Valve

Network Boundary Point
Other IGT Boundary
Tie Point
Tie Disconnect

Semi Concealed
Ducts
Internal
Meter Box
Modified
Plant Load
Inflow
Surface Mounted
End Cap

Plan Notes

The plan shown may be copyrighted to the BUAK Group. Any third party rights are excluded. It is supplied by the BUAK Group for this project only. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes are not normally accepted by the company. Safe digging practices, in accordance with HSG47, must be used to verify and establish the actual position of mains before any excavation commences. Ordnance Survey mapping is Survey on behalf of HMSO, © Crown copyright and database right 2021. All rights reserved. Ordnance Survey Licence number 100022432.

Developers Responsibility

The developer has a duty of care and it assumes the responsibility of the developer to ensure it is suitably protected. Inserts/re-bedding should be carried out as soon as possible. Replacement and repair of damaged services will be undertaken by contractors on behalf of the owner of the development. It will be the developer's responsibilities recover the costs incurred.

Revision Notes

For any clarification of this network design please see separate revision notice document.

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Last Edit By:	
Last Approved By	BINAYA TAMRAKAR 16-12-2022
	2022
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OS Ref:	555213,238619
Location:	Radwinter Road, Saffron Walden, ESSEX, CB10 2JP
Developer/Client:	Linden Homes Eastern
Drawing Number/Title:	N0017329-1_2_of_4_appendix
Network Number:	N0017329
Project Number:	N0017329-1
Scale:	1:500
Sheet Size:	A0
Revision:	4-1

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GTC Plant Enquiry. Our Ref 4253784, Your Ref 35803 generated for searches@cornerstoneprojects.co.uk at 17/04/2024 13:58:28. This drawing is reproduced from our records archive at the time of enquiry.

Radwinter Road
N0018415-1
N0008434-1
N0017329-1
Shire Hill
Horn Book
LE 11096 Length 5.5
Schools Length 4.10

16-12-2022

This design is across multiple drawings for details please refer to all drawings.

Gas Notes

Gas pipelines and ducts that shall contain a gas main must be overlaid with yellow coloured marker tape 200mm above the apparatus. All gas services and ducts that shall contain a gas service must be overlaid with gas warning tape 200mm above the apparatus. All gas pipelines and ducts that shall contain a gas pipe should have a minimum of 300mm clearance from electricity cables.

Minimum Proximity to Properties

Diameter of Gas Main (mm)	Minimum Building Proximity (m)			
	≤ 0.75 bar	> 0.75 bar ≤ 2 bar / ≤ 2 bar	> 2 bar ≤ 3.5 bar / ≤ 3.5 bar	> 3.5 bar ≤ 7 bar
Up to 125	0.25	2	4	6
126 to 250	1	2	4	6
256 to 500	1	2	4	6
501 to 1000	1	2	10	15

During Construction

- Ducting for mains must be under and not perforated and only used perpendicular carriageway crossings
- Ducting for services must be yellow and perforated along its entire length
- Only one pipe is allowed per duct

Gas Pipe External Diameter	Duct Inside Diameter
25mm ≤ 32mm	50mm
40mm	100mm
80mm	150mm
125mm	200mm
180mm ≤ 250mm	300mm
315mm	450mm

Meter Positions

Meters and service risers are to position where damage could occour. Especially in car parks, shall be avoided.

Kerb concealed Universal meter boxes shall not:

- Be sited in carriageways
- Overplanted
- Be sited in footpaths
- Sink a tap handel

Material Specification

Materials shall be to gas pressure wise refer to GG-PSC-ES-0002 Gas Materials Purchase - Standards & Specifications

Interconnection between Gas & Utilities

The services highlighted in blue will be excavated and reinstated by BUAK contractors, the excavation and reinstatement of the other trenches will be the responsibility of the customer.

	Proposed	Laid
MP Pipe + Tee		
IP Pipe 2bar - Tee		
IP Pipe 4 bar - Tee		
IP Pipe + 3 Tricker		
Service Pipe		
Service Tee		
Governor by Avak Contractors		Semi Concealed
Asset Boundary		Courts
Pressure Reducer Valve		Internal
Pressure Reducer Station		Kiosk
Valve		Moulded
Open / Closed Valve		Plant Load
Network Boundary Point		Unions
Other IGT Boundary Point		Surface Mouted
Tie Downmeer		Rat Gap

Plan Notes

This plan is for the use only by the BUAK Group. Any third party apparatus indicated on these drawings is shown to indicate purposes only. The accuracy cannot be guaranteed. No liability of any kind whatsoever is accepted by the company. Safe digging practices, in accordance with HSE publication HSG47 avoiding danger from underground services, must be observed. This plan is reproduced by the permission of Ordnance Survey on behalf of HMSO. © Crown copyright and database right 2022. All rights reserved. Ordnance Survey Licence number 0100031673.

Work Instructions

When apparatus have been laid it becomes the responsibility of the developer to ensure that a satisfactory pressure test and purge has been carried out as soon as possible. Replacement and repair of damaged apparatus and reinstatement of excavations will be carried out by the developer, it will be the developer's responsibility to secure the costs from the third parties.

Revision Notes

For a revision history of the network design please see separate revision history document.

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OS Ref:	555213,238247
Location:	Radwinter Road, Saffron Walden, ESSEX. CB10 2JP
Developer/Client:	Linden Homes Eastern
Drawing Number/Title:	N0017329-1_3_of_4_appendix
Network Number:	N0017329
Project Number:	N0017329-1
Scale:	1:500
Sheet Size:	A0
Revision:	4-1

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GTC Plant Enquiry. Our Ref 4253784, Your Ref 35803 generated for searches@cornerstoneprojects.co.uk at 17/04/2024 13:58:28. This drawing is reproduced from our records archive at the time of enquiry.

Radwinter Road
N0018415-1
N0008434-1
N0017329-1
Shire Hill
Horn Book
LE 11096 Length 5.5
Schools Length 4.10

16-12-2022

This design is across multiple drawings for details please refer to all drawings.

Gas Notes

Gas pipelines and ducts that shall contain a gas main must be overlaid with yellow coloured marker tape 200mm above the apparatus. All gas services and ducts that shall contain a gas service must be overlaid with gas warning tape 200mm above the apparatus. All gas pipelines and ducts that shall contain a gas pipe should have a minimum of 300mm clearance from electricity cables.

Minimum Proximity to Properties

Diameter of Gas Main (mm)	Minimum Building Proximity (m)			
	≤ 0.75 bar	> 0.75 bar ≤ 2 bar / ≤ 2 bar	> 2 bar ≤ 3.5 bar / ≤ 3.5 bar	> 3.5 bar ≤ 7 bar
Up to 125	0.25	2	4	6
126 to 250	1	2	4	6
256 to 500	1	2	4	6
501 to 1000	1	2	10	15

During Construction

- Ducting for mains must be under and not perforated and only used perpendicular carriageway crossings
- Ducting for services must be yellow and perforated along its entire length
- Only one pipe is allowed per duct

Gas Pipe External Diameter	Duct Inside Diameter
25mm ≤ 32mm	50mm
40mm	100mm
80mm	150mm
125mm	200mm
180mm ≤ 250mm	300mm
315mm	450mm

Meter Positions

Meters and service risers are to position where damage could occour. Especially in car parks, shall be avoided.

Kerb concealed Universal meter boxes shall not:

- Be sited in carriageways
- Overplanted
- Be sited in footpaths
- Sink a tap handel

Material Specification

Materials shall be to gas pressure wise refer to GG-PSC-ES-0002 Gas Materials Purchase - Standards & Specifications

Interconnection between Gas & Utilities

The services highlighted in blue will be excavated and reinstated by BUAK contractors, the excavation and reinstatement of the other trenches will be the responsibility of the customer.

	Proposed	Laid
MP Pipe + Tee		
IP Pipe 2bar - Tee		
IP Pipe 4 bar - Tee		
IP Pipe + 3 Tricker		
Service Pipe		
Service Tee		
Governor by Avak Contractors		Semi Concealed
Asset Boundary		Courts
Pressure Reducer Valve		Internal
Pressure Reducer Station		Kiosk
Valve		Mudflat
Open / Closed Valve		Plant Load
Network Boundary Point		Utilities
Other IGT Boundary Point		Surface Mounted
Tie Downstream		Rat Gap

Plan Notes

This plan is for the use soley by the BUAK Group. Any third party apparatus indicated on these drawings is shown to indicate purposes only. The accuracy cannot be guaranteed. No liability of any kind whatsoever is accepted by the company. Safe digging practices, in accordance with HSE publication HSG47 avoiding danger from underground services, must be followed. The plan is reproduced by the permission of Ordnance Survey on behalf of HMSO. © Crown copyright and database right 2022. All rights reserved. Ordnance Survey Licence number 0100031673.

Work Instructions

Where apparatus have been laid it becomes the responsibility of the developer to ensure that adequate protection of the apparatus is provided or be carried out as soon as possible. Replacement and repair of damaged apparatus will be undertaken by the company at the cost of the developer, it will be the developer's responsibility to secure the costs from the third parties.

Revision Notes

For a revision history of the network design please see separate revision history document.

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OS Ref:	555213,238247
Location:	Radwinter Road, Saffron Walden, ESSEX, CB10 2JP
Developer/Client:	Linden Homes Eastern
Drawing Number/Title:	N0017329-1_3_of_4_appendix
Network Number:	N0017329
Project Number:	N0017329-1
Scale:	1:500
Sheet Size:	A0
Revision:	4-1

0 13 m

GTC Plant Enquiry. Our Ref 4253784, Your Ref 35803 generated for searches@cornerstoneprojects.co.uk at 17/04/2024 13:58:36. This drawing is reproduced from our records archive at the time of enquiry.


Radwinter Road
Radwinter Road
N0017329-1
63mm LP PE80
63mm LP PE80
63mm LP PE80

SAFE WORKING IN THE VICINITY OF UTILITY NETWORKS

(Refer to the HSE Guidance Document HSG47)

Introduction

This document should be issued to anyone intending on working in the vicinity of GTC and associated entities' utility networks and should be used in conjunction with HSG47, NJUG guidance and industry recognised practices.

Confirmation should be sought from the asset owner in any instance of ambiguity or if there is confusion.

Any querries regarding diversions, alterations, and disconnections for Gas, Water, Distributed Heat and Fibre please contact: Network_Variations@gtc-uk.co.uk

Any querries regarding diversions, alterations, and disconnections for Electric, please contact: Electricity.diversions@gtc-uk.co.uk

For more information please see the GTC website: https://www.gtc-uk.co.uk/ or alternatively contact plant.enquiries@bu-uk.co.uk

The Dangers

Damage to services can cause significant disruption and project delays and therefore incur considerable costs as well as the potential for severe or fatal injury to not only to those directly involved but also the general public.

Damages often have instantaneous reactions like explosive arcing with cables or leaks for gas and water mains however latent reactions due to damages that are ignored, consealed, or unnoticed can have much greater consequences.

General

1. It is imperative that all works are carried out in accordance with the guidance provided by the HSE (Health and Safety Executive) in their document HSG47 "Avoiding Danger from Underground Services", ISBN 978 0 7176 6584 6, 3rd Edition 2014. No party shall carry out any excavation works or other intrusive works such as piling, blasting or demolition without following the guidance in HSG47.

2. We own gas, electricity, water, waste water, fibre, and district heating apparatus located in the highway, private property and through the countryside. Some plant may be located in land for which a wayleave or easement has been granted and there may be no surface evidence of the presence of apparatus.

3. Ensure that you have obtained detailed plans of existing and proposed gas, electricity, water, waste water, fibre, and district heating networks before any works commence.

4. The position of the networks shall be pinpointed as accurately as possible by visually surveying the area for indications of apparatus, by means of a locating device, and reference the information gathered to the plans. Locating equipment must be tested and calibrated within the manufacturer's calibration date.

Excavation work should be carried out where applicable, carefully following recognised safe digging practices. Once a locating device has been used to determine position and route, excavation may proceed; trial holes should be dug using suitable hand tools to confirm the position of buried networks. During excavation the locating device should be reused to check position and route of buried apparatus.

Once the apparatus has been located, appropriate marking be made on the covering hard surface confirming location and any errors in plans identified, GTC should be advised to allow plans to be updated.

5. Hand-held power tools can damage buried apparatus and shall be used with care until the exact position of a utility has been determined. They may only be used to break a paved or concrete surface above the network, unless there are any indications that the network is particularly shallow; in such circumstances, accuracy of plant location is determined and excavation initiated adjacent to the apparatus.

6. No manhole, chamber or other structure shall be built over, around or under the network. Such structures, other pipes, ducts and cables should be laid to provide a minimum clearance from the existing network of 300mm or 1.5 times the diameter of the asset, whichever is the greater. No work should be carried out if this minimum clearance cannot be met or which results in a reduction of cover or protection over the network, without first consulting GTC, please seek advice from GTC.

7. Where an excavation uncovers any network apparatus the backfill shall be adequately compacted, particularly beneath the network, to prevent any settlement, which would subsequently damage the network. Backfill material adjacent to the network shall be selected fine material or sand, containing no stones, bricks or lumps of concrete etc. and shall be suitably compacted to give comparable support and protection to that provided before excavation. No power compaction shall take place until at least 200mm cover of selected fine fill has been suitably compacted by hand tools.

8. If the road construction is close to the top of the network, GTC shall be asked to identify whether any additional precautions are necessary. The road construction depth should not be reduced without permission from the local Highway Authority.

9. Costs incurred by GTC through direct or consequential damage shall be recharged.

10. Where utilities are within a duct the duct should be treated in the same manner as live utility cable/pipe/fibre and any work in the vicinity of the apparatus shall be carried out with caution.

Any damage caused no matter how insignificant or minor in appearance SHALL BE REPORTED to GTC as soon as possible.

Precautions for Gas Networks

11. Plans do not always show the presence of gas service pipes (from the gas main to premises) but their existence should be assumed with consideration given to the increased height of the service off-take fitting on the main.

12. The depth of cover for gas mains is typically 750mm in carriageways and grass verges, 600mm in footways and 1.1m in open field. The depth of cover for gas services is typically between 375mm and 600mm . Reference should always be made to the network drawing. Remember these covers are to finished level, you may be working in an area, which will be made up or lowered at a later date.

13. Gas pipes should be located by hand digging before mechanical excavation begins. When the positions and depth of the pipes have been determined, work can proceed.

14. If a gas leak is suspected, the following action should be taken immediately:

- Remove all people from the immediate vicinity of the escape. If the service connection to a building or the adjacent main has been damaged, warn the occupants to leave the building, and any adjoining building, until it is safe for them to return. It is important to note that a mechanical excavator may not only cause damage/leakage at the point of impact. For example, damage to a service connection outside the building may result in further, unseen damage to the connection inside the building. Gas leaking from the damage inside or gas travelling along the line of the service connection pipe from outside the building may cause a build-up of gas within the building.
- Prohibit smoking, and extinguish all naked flames and other sources of ignition i.e. stop excavator and compressor engines within at least 5.0m of the leak.
- Inform the National Gas Emergency Service immediately by dialling:

  0800 111 999

- Remain on site.
- Assist the Gas Emergency Service Provider staff, Police, Fire Services or other Statutory Authorities as requested.

15. Where gas pipes cross or are parallel and close to excavations, changes in backfill etc. may cause differential ground settlement and increased stress in the pipe. For pipes parallel and close to excavations, the degree of risk depends upon the depth of the excavation, the distance of the pipe from the excavation, the type of soil and any excessive loading from heavy construction plant and materials. Wherever excavation works may affect the support of the gas pipe or cause excessive loading over the gas pipe then GTC shall be consulted.

16. No concrete or other hard material should be placed or left under or adjacent to any gas pipe as this can cause pipe fracture at a later date. Concrete backfill should not be used within 300mm of a gas pipe.

17. Where an excavation uncovers a gas pipe with a damaged wrapping, GTC shall be informed, so that repairs can be made to prevent future corrosion and leakage.

18. Pipe restraints or thrust blocks close to gas mains shall not be removed or interfered with as they are a safety feature of the live gas network.

19. Anyone who carries out work near underground gas plant should observe any specific requirements made by the site manager, and ensure that access to the plant by the asset owners staff is available at all times. No unauthorised repairs to gas pipes should be made.

20. Where excavation is within 5m proximity to above or below ground pressure control equipment, ground workers must be aware of the possibility of encountering small auxilary pipework that is more susceptible to damage.

21. Where PE pipes and cables have been exposed and it is intended that hot work (e.g. welding, grinding, etc) be carried out, contact shall be made with GTC to confirm additional precautions and actions that may require to be undertaken.

22. GTC shall be consulted if it is intended to carry out any of the following activities:

- Using explosives within 30m of gas pipes or 400m of gas pressure reduction equipment.
- Piling or boring within 15m of gas plant.
- Excavating within 10m of pressure reduction equipment.
- Reducing the cover or protection of a gas pipe.
- Carrying out deep excavations nearby (minimum of 2m up to 15m).
- Working within 3m of GTC's intermediate pressure (IP) mains.

Precautions for Electricity Networks

23. Plans do not always show the presence of electric service cables (from the electricity main to premises) but their existence should be assumed.

24. In most cases there will be no permanent surface marker posts or other visible indication of the presence of a buried cable. Even if no cables are shown on plans or detected by a locator, there may still be cables present, which could be live and a close watch should be kept for any signs which could indicate their presence such as marker tape, tape tile, concrete tiles and wooden battens. Any marker which is disturbed by our excavations must be replaced once work is completed.

25. Typically underground cables are laid in trenches between 450mm and 1000mm deep, although some high voltage cables will be deeper, however, depths should never be assumed.

26. A cable is positively located only when it has been safely exposed. Even then, digging should still proceed with care as there may be other cables adjacent or lower down.

27. Occasionally, cables are terminated in the ground by means of a seal, sometimes with external mechanical protection. These "pot ended" or "bottle ended" cables should be treated as live and should not be assumed to be abandoned or disused. They can be difficult to detect with locators even when "live".

28. Where practicable, such power tools shall only be used 500mm or more away from the indicated line of a cable buried in or below a hard surface. Having done so, the cable shall then be positively located by careful hand digging under the hard surface. The hard surface should be gradually removed until the cable is exposed. If the cable is not exposed then it must be assumed to be embedded within the surface. Where possible a cable locator shall be used as a depth guide down the side of the excavation.

29. Because of the difficulty in confirming depth, hand held power tools shall never be used over the cable unless either:

- The cable has already been exposed by digging under the surface to be broken out and it is at a safe depth (at least 300mm) below the bottom of the hard surface material.

  or

- Physical precautions have been taken to prevent the tool striking the cable.

30. Excavating close to electricity cables buried in concrete is dangerous and shall not be undertaken unless the cable(s) have been isolated. For this reason alone electricity cables should not be buried in concrete.

31. Where mechanical excavators are used in the possible vicinity of underground cables, the work should be arranged so that damage to cables is avoided so far as is reasonably practicable. To minimise danger to operatives those onsite shall be outside of the reach of the excavator bucket and shall not enter the trench whilst digging is undertaken. Excavator operators shall be instructed to stay in the cab if a cable is struck. If excavator operators have to exit the cab they should jump clear. If excavator operators climb down from the cab the risk of electrocution is significantly increased. If a cable is struck, the machine involved shall be subject to continous observation and no one shall enter the excavation or approach the machine or the cable until GTC have been contacted and the damaged cable has been made safe.

32. Where cables have been exposed:

- Any damage shall be reported to GTC immediately on: **0800 032 6990**

  And work shall not be undertaken in the vicinity of a damaged cable until GTC has investigated its condition.

- For more than 1.0m and they cross a trench, support shall be provided. If the exposed cable length is shorter than 1.0m support shall still be considered if joints have been exposed or the cable appears otherwise vulnerable to damage. Where advice and help is needed contact GTC.

- Suitable precautions shall be taken to prevent damage from on-going work in the excavation. This may involve for example the use of physical means (e.g. timber boards, sandbags etc) to prevent mechanical damage. Materials or equipment which could damage or penetrate the outer sheath of the cable shall not be used. Cables lying in the bottom of an excavation are particularly vulnerable and shall be protected by nail free wooden planks, troughing or other suitable means.

- Cables shall not be moved aside unless the operation is supervised by GTC.

- Precautions shall be taken to prevent access by members of the public.

33. GTC shall be consulted if it is intended to carry out any of the following activities:

- Using explosives within 30m of plant or substations piling or boring within 15m of electric plant.

- Excavating within 10m of a substation.

- Carrying out deep excavations nearby (minimum of 2m up to 15m).

- Working near GTC's HV plant.

Precautions for Water Networks

34. Plans do not always show the presence of water service pipes (from the water main to premises) but their existence should be assumed with consideration given to the increased height of the service off-take fitting on the main.

35. The depth of cover for water mains are typically 900mm. The depth of cover for water services are typically 750mm. Remember these covers are to finished level, you may be working in an area, which will be made up or lowered at a later date.

36. Water mains shall be located by hand digging before mechanical excavation begins. When the positions and depth of the pipes have been determined, work can proceed.

37. The danger created by damaging a water pipe with an excavator is much greater than if the damage is done with a hand-held power tool. Water pipes may have projections such as valve housings, which are not shown on the plans and to allow for this mechanical excavators shall not be used within 500mm of a water pipe.

38. If a water leak is suspected, the following action should be taken immediately:

- Remove all people from the immediate vicinity of the damage. It is important to note that a mechanical excavator may not only cause damage/leakage at the point of impact. For example, damage to a service connection outside the building may result in further, unseen damage to the connection inside the building.
- Shut down all working plant and machinery in the vicinity of the damage
- Inform IWNL by dialling: **02920 442 716**
- Remain on site.
- Do not attempt to make a repair.
- Assist Approved Contractors, Police, Fire Services or other Statutory Authorities as requested.

39. Where water pipes cross or are parallel and close to excavations, changes in backfill etc. may cause differential ground settlement and increased stress in the pipe. For pipes parallel and close to excavations, the degree of risk depends upon the depth of the excavation, the distance of the pipe from the excavation, the type of soil and any excessive loading from heavy construction plant and materials. Wherever excavation works may affect the support of the water pipe or cause excessive loading over the water pipe then GTC must be consulted.

40. No concrete or other hard material should be placed or left under or adjacent to any water pipe as this can cause pipe fracture at a later date. Concrete backfill should not be used within 300mm of a water pipe.

41. Where an excavation uncovers a water pipe with a damaged wrapping, GTC shall be told, so that repairs can be made to prevent future corrosion and leakage.

42. Pipe restraints or thrust blocks close to water mains should never be removed.

43. Anyone who carries out work near underground water plant shall observe any specific requirements made by the site manager, and ensure that access to the plant by GTC staff is available at all times. No unauthorised repairs to water pipes should be made.

44. Where PE pipes and cables have been exposed and it is intended hot work (e.g. welding, grinding, etc) be carried out, contact shall be made with GTC to confirm additional precautions and actions that may require to be undertaken.

45. GTC shall be consulted if it is intended to carry out any of the following activities:

- Using explosives within 30m of plant.

- Piling or boring within 15m of water plant.
- Excavating within 10m of water asset structures.
- Reducing the cover or protection of a water main or service.
- Carrying out deep excavations nearby (minimum of 2m up to 15m).

Precautions for Fibre Networks

46. Plans may not always show the presence of fibre ducts but their existence should be assumed if GTC advise they have fibre services deployed in the given area. Any planned excavation work should only proceed with due care and attention.

47. Chambers with IFNL or OFNL marked lids can be used as an onsite indictor that GTC have fibre plant deployed in a given area however an exclusion of their presence does not necessarily mean there is no plant present.

48. In most cases there will be no permanent surface marker posts or other visible indication of the presence of a buried fibre duct. Even if no ducts are shown on plans there may still be ducts present which could have live fibre service installed. A close watch shall be kept for any signs which could indicate duct presence such as marker tape. Any marker which is disturbed by our excavations must be replaced once work is completed.

49. The depth of cover for fibre duct is typically between 350mm and 600mm in footways and grass verges, 600mm in carriageways and 1m in agricultural deployments. Remember these covers are to finished level, you may be working in an area, which will be made up or lowered at a later date.

50. Fibre ducts should be located by hand digging before mechanical excavation begins. When the positions and depth of the ducts have been determined, work can proceed. Even then, digging should still proceed with care as there may be other ducts adjacent or lower down.

51. If fibre duct damage is suspected, the following action should be taken immediately:

- Remove all people from the immediate vicinity of the damage. It is important to note that a mechanical excavator may not only cause damage at the point of impact. For example, damage to a fibre connection outside the building may result in further, unseen damage to the connection inside the building.
- Shut down all working plant and machinery in the vicinity of the damage.
- Inform GTC Fibre immediately on: **02920 028 726**
- Remain on site.
- Do not attempt to make a repair.
- Assist Approved Contractors, Police, Fire Services or other Statutory Authorities as requested.

52. Where fibre ducts cross or are parallel and close to excavations, changes in backfill etc. may cause differential ground settlement and increased stress on the duct. For ducts parallel and close to excavations, the degree of risk depends upon the depth of the excavation, the distance of the duct from the excavation, the type of soil and any

excessive loading from heavy construction plant and materials. Wherever excavation works may affect the support of the fibre duct or cause excessive loading over the fibre duct then GTC must be consulted.

53. No concrete or other hard material shall be placed or left under or adjacent to any fibre duct as this can cause damage to the duct at a later date. Any backfill should comply with the requirements of NRSWA. Concrete backfill should not be used within 300mm of a fibre duct.

54. Anyone who carries out work near underground fibre plant should observe any specific requirements made by the site manager, and ensure that access to the plant by GTC staff is available at all times. No unauthorised repairs to fibre ducts should be made.

55. Where fibre ducts have been exposed and it is intended hot work (e.g. welding, grinding, etc) be carried out, contact must be made with GTC to confirm additional precautions and actions that may require to be undertaken.

56. GTC shall be consulted if it is intended to carry out any of the following activities:

- Using explosives within 30m of plant or fibre asset structures.
- Piling or boring within 15m of fibre plant.
- Excavating within 10m of fibre asset structures (including the OSCP).
- Reducing the cover or protection of a fibre asset.
- Carrying out deep excavations nearby (minimum of 2m up to 15m).

Precautions for District Heating Networks

For information with respect to Dstrict Heating Networks this could also include District Cooling.

57. Plans do not always show the presence of District Heating service pipes (from the District Hearing main to premises) but their existence should be assumed.

58. The depth of cover for District Heating mains is typically a minimum of 600mm under normal light carriageways and during construction activities, additional temporary protective bridging should be placed over DHN pipe runs. The depth of cover for District Heating services is typically 6000mm. Remember these covers are to finished level, you may be working in an area, which will be made up or lowered at a later date.

59. District Heating mains shall be located by hand digging before mechanical excavation begins. When the positions and depth of the pipes have been determined, work can proceed.

60. The danger created by damaging a District Heating with an excavator is much greater than if the damage is done with a hand-held power tool. District Heating pipes may have projections such as valve housings, which are not shown on the plans and to allow for this mechanical excavators should not be used within 600mm of a District Heating pipe.

61. If a water leak is suspected, the following action should be taken immediately:

- Remove all people from the immediate vicinity of the damage. It is important to note that a mechanical excavator may not only cause damage/leakage at the point of impact. For example, damage to a service connection outside the building may result in further, unseen damage to the connection inside the building.
- Shut down all working plant and machinery in the vicinity of the damage.
- Inform Metropolitan by dialling: **02920 100 346**
- Remain on site.
- Do not attempt to make a repair.
- Assist Approved Contractors, Police, Fire Services or other Statutory Authorities as requested.

62. Where District Heating cross or are parallel and close to excavations, changes in backfill etc. may cause differential ground settlement and increased stress in the pipe. For pipes parallel and close to excavations, the degree of risk depends upon the depth of the excavation, the distance of the pipe from the excavation, the type of soil and any excessive loading from heavy construction plant and materials. Wherever excavation works may affect the support of the District Heating or cause excessive loading over the water pipe then Metropolitan must be consulted.

63. No concrete or other hard material should be placed or left under or adjacent to any District Heating as this can cause pipe fracture at a later date. Concrete backfill should not be used within 300mm of a District Heating.

64. Where an excavation uncovers a District Heating pipe with a damaged insulation, Metropolitan should be told, so that repairs can be made to prevent future corrosions and leakage.

65. Pipe restraints , Anchor blocks or foam padding close to district heating mains shall never be removed.

66. Anyone who carries out work near underground district heating plant shall observe any specific requirements made by the site manager, and ensure that access to the plant by the asset owners staff is available at all times. No unauthorised repairs to district heating pipes shall be made.

67. Where District Heating pipes have been exposed and it is intended hot work (e.g. welding, grinding, etc) will be carried out, contact shall be made with Metropolitan to confirm additional precautions and actions that may require to be undertaken.

68. Metropolitan shall be consulted if it is intended to carry out any of the following activities:

- Using explosives within 30m of gas pipes or 400m of gas pressure reduction equipment.
- Piling or boring within 15m of District Heating pipe.
- Reducing the cover or protection of a District Heating pipe.
- Carrying out deep excavations nearby.

Searches - Cornerstone Projects Ltd

From: LastMile@safedigs.co.uk
Sent: 17 April 2024 13:17
To: searches@cornerstoneprojects.co.uk
Subject: Plant Enquiry Ref Job No. 33129444
Attachments: 33129444_LastMile.pdf

17/04/2024

LinesearchbeforeUdig ref: 33129444

Your ref: 35803

Dear Sir/Madam,

Thank you for contacting us regarding equipment and apparatus owned and operated by Last Mile Asset Management Limited (on behalf of Last Mile Gas Limited and/or Last Mile Electricity Limited) (collectively referred to as Last Mile).

We enclose a drawing that identifies an area where Last Mile are in the process of adopting assets in. As equipment and apparatus is installed and commissioned in the area shown on the attached drawing information on its type and location will become available over time through the Linesearch Before U Dig website (www.linesearchbeforeudig.co.uk).

Furthermore, we draw your attention to the following general guidance notes:

- This information is given as a general guide for information purposes only and Last Mile gives no warranty, representation, or guarantee, whether express or implied, that the content is accurate, complete, or up to date.
- No liability of any kind whatsoever is accepted by Last Mile, its agents, servants or contractors for any error, omission, or misstatement.
- Please note that all Last Mile equipment on site should be assumed to be LIVE until proven otherwise.
- Safe digging practices, in accordance with HS(G)47, Avoiding Danger from underground services must be used to verify and establish the actual position of mains, pipes, cables, 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 apparatus. Safe working procedures should be defined and practiced.
- Last Mile reserves its position completely to enforce the terms of any easement against the landowner, even if this results in any planning permission granted not being able to be fully implemented.
- You must not build over or enclose any of our plant, apparatus, or equipment.

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

Yours sincerely,

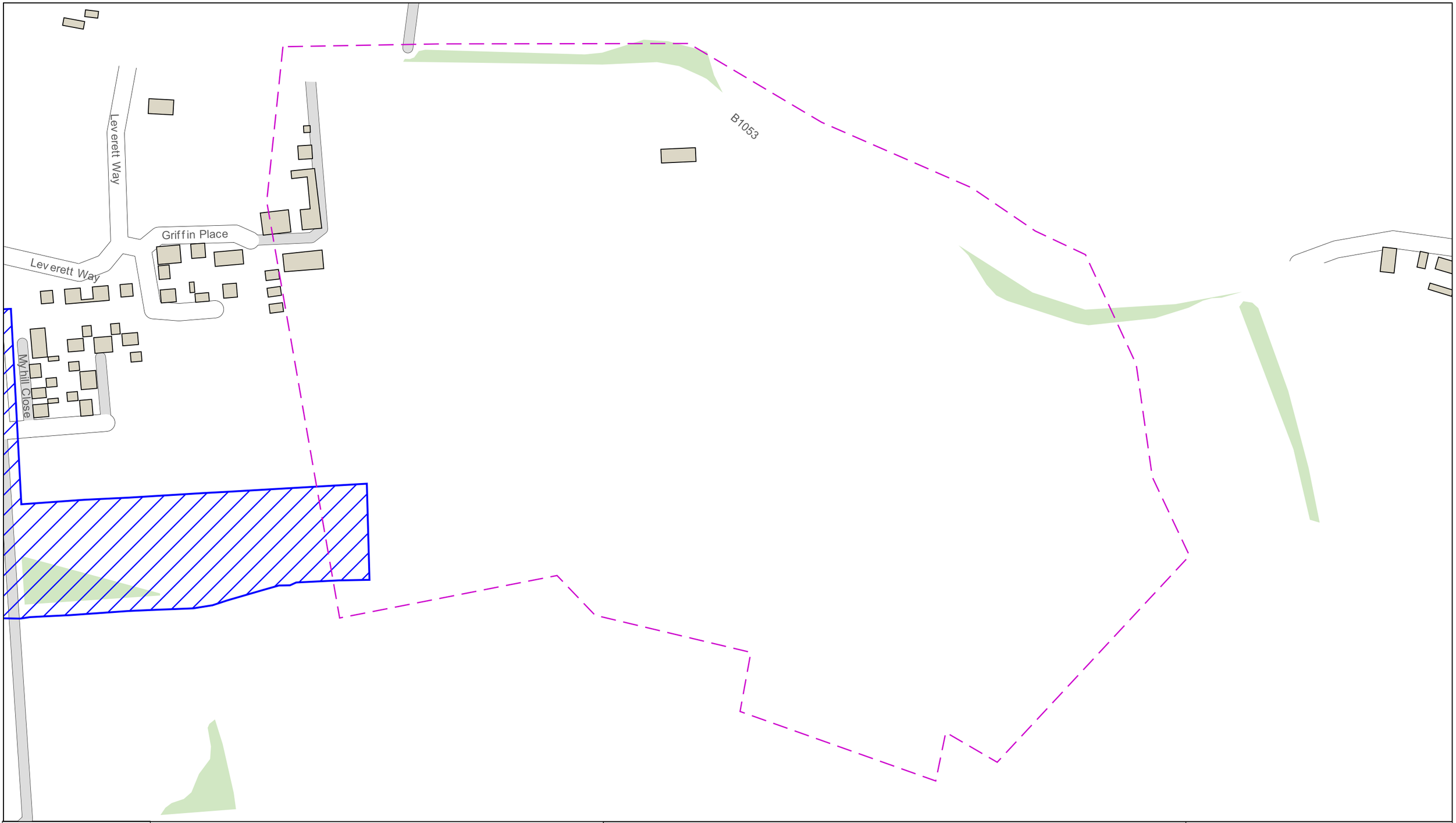
Last Mile Asset Management Limited

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

Electricity Emergency Number:
In an emergency call 105, 24 hours a day

Mapping Enquiries:
If you have an enquiry relating to this letter or the attached map plan, please contact us using the following information:
Email plantenquiries@lastmile-uk.com

LinesearchbeforeUdig:
If you have an enquiry relating to the use of the LinesearchbeforeUdig website, please contact LinesearchbeforeUdig using the following information:
Telephone: 0345 437 7365
Email: enquiries@linesearchbeforeudig.co.uk
Website: www.linesearchbeforeudig.co.uk



In an emergency call 0800 111 999, 24 hours a day

Date Requested: 17/04/2024
Job Reference: 33129444
Site Location: 555451 237912
Requested by:
Mr Duncan Phillips

Your Scheme/Reference: 35803

Scale: 1:2500 (When plotted at A3)

IMPORTANT INFO

This plan shows those pipes owned by Last Mile Gas Limited in their role as a Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned (or, indeed, any other apparatus, equipment or infrastructure may be present in this area. Information regarding such pipes (or any such other apparatus, equipment, or infrastructure) should be obtained from the relevant owners.

The information shown on these plans is provided for general information purposes only and should not be relied on or treated as a substitute for your own enquiries. We make no warranty, representation, or guarantee, whether express or implied, regarding the content of the plans or that the content is accurate, complete, or up to date. No liability of any kind whatsoever is accepted by Last Mile Asset Management Limited, or their agents, servants or contractors for any error, omission, or misstatement.

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.

GAS KEY

- PROPOSED LP SERVICE
- INSTALLED LP SERVICE
- PROPOSED MP SERVICE
- PROPOSED LP MAINS
- INSTALLED LP MAINS
- PROPOSED MP MAINS
- PROPOSED IP MAINS
- EXISTING/AS LAID LP SERVICE
- EXISTING/AS LAID MP SERVICE
- EXISTING/AS LAID LP MAINS
- EXISTING/AS LAID MP MAINS
- INSTALLED MP MAINS
- EXISTING/AS LAID IP MAINS
- EXISTING HP MAINS
- DECOMMISIONED PIPE
- PIPE TO BE DECOMMISIONED
- DIAMETER CHANGE
- CAP END
- VALVE
- GAS METERBOX/KIOSK
- GAS RISER
- GAS METER
- CATHODIC PROTECTION
- PRESSURE REDUCTION INSTALLATION (P.R.I)
- MEDIUM PRESSURE SERVICE EXCESS FLOW VALVE
- PRESSURE PROTECTION
- RIDER PURGE POINT
- PLOTS WITH CONNECTIONS OFF OTHER GT/EXISTING GAS NETWORKS

100m

Dig Sites

Area:

Line:

Last Mile Asset Management Limited
Fenick House, Lister Way
Hamilton International Technology Park
Glasgow G72 0FT
Telephone 03300 587 443

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Searches - Cornerstone Projects Ltd

From: Virtual Utilities <no-reply@virtual-utilities.co.uk>
Sent: 17 April 2024 13:43
To: Duncan Phillips
Subject: Your UK Power Distribution Order - #29527
Attachments: invoice-29527.pdf

Thank you for your order

Thanks for your recent enquiry to UK Power Distribution.

Please find attached your invoice. The details of your order are also below:

According to our database there are no UK Power Distribution records within your search area.

Please note that any recent additions or alterations to our network may not be shown. Cables or pipes owned by other network owners or private companies will not be shown.
Before any excavations are undertaken you should always verify exact locations of cables using a cable locator, and by careful use of hand tools in accordance with HSE guidance note HSG47 “Avoiding danger from underground services”
Other useful documents to read prior to undertaking any works are HSE GS6, “Avoiding danger from overhead power lines” and HSE “Avoiding concealed services and overhead power lines”

Order number: #29527

Description	Date	Qty	Amount (£)
Utility Records Search View Map	17-04-2024 12:43:20	1	12.50
		VAT (@ 20%)	2.50
		Grand Total	**15.00**

Your Details

Duncan Phillips

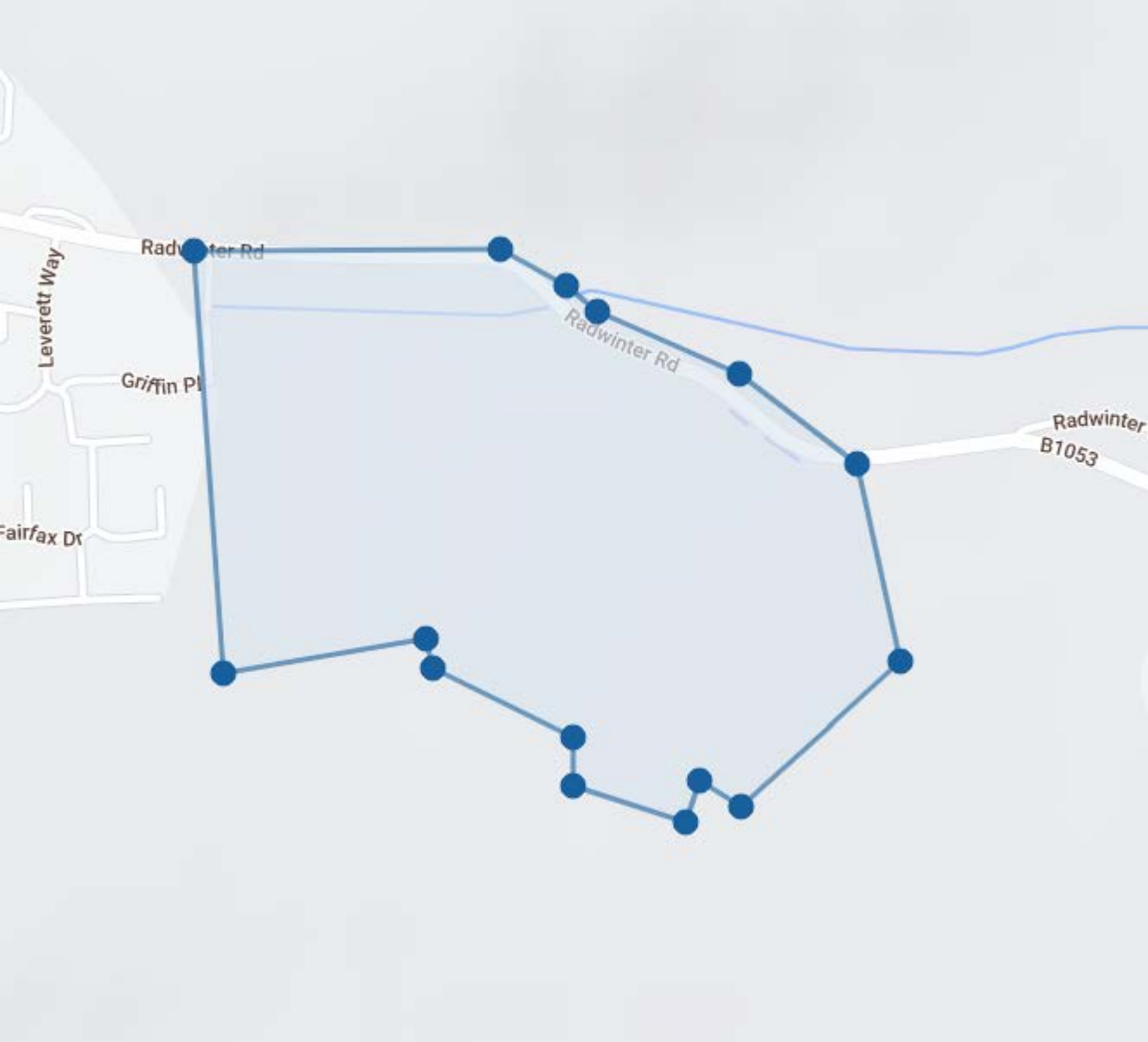
searches@cornerstoneprojects.co.uk

Billing Address

91 Market Street,
Hoylake,
Wirral, Merseyside,
Merseyside,
CH47 5AA

https://ukpd.virtual-utilities.co.uk

5200 Cinnabar Court,
Daresbury Park,
Daresbury,
WA4 4GE


Radwinter Rd
Leverett Way
Griffin Pl
Radwinter Rd
Radwinter
B1053
Fairfax Dr

Searches - Cornerstone Projects Ltd

From: Networks Enquiries <assetenquiries@eclipsepower.co.uk>
Sent: 17 April 2024 13:22
To: searches - Cornerstone Projects Ltd
Subject: RE: Plant enquiry - Site Ref. 35803 Saffron Walden - Land south of Radwinter Rd, East of Griffin Place, CB10 2NP - NGR E555781 N238175

Dear Sir/ Madam,

Thank you for your email. I can confirm that we have no present projects in the illustrated area as demonstrated in your email.

This response is valid for 3 months, after this time has commenced, we request you submit another email demonstrating the location of your plans.

If you have any further queries, do not hesitate to contact me.

Kindest regards,
Harry Constantine
Eclipse Power
Office: +44 (0) 1234 486487
www.eclipsepower.co.uk
https://www.linkedin.com/company/eclipse-power-networks

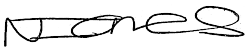


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Please don't print this e-mail unless you really need to!

From: searches - Cornerstone Projects Ltd <searches@cornerstoneprojects.co.uk>
Sent: Wednesday, April 17, 2024 1:15 PM
To: searches - Cornerstone Projects Ltd <searches@cornerstoneprojects.co.uk>
Subject: Plant enquiry - Site Ref. 35803 Saffron Walden - Land south of Radwinter Rd, East of Griffin Place, CB10 2NP - NGR E555781 N238175

QUALITY CHECK

Checked and issued by:	
Name:	N Jones
Date:	29/04/24
Plans are valid until:	28/07/24
Unless noted otherwise plans are valid for three months from date of issue - please note the date shown above is approximate. After the above date please contact us to arrange a refreshed utility search pack at www.cornerstoneprojects.co.uk Please refer to www.cornerstoneprojects.co.uk/terms.html for full Terms and Conditions.	

Cornerstone Projects Ltd is a UK wide desktop underground utility search expert:

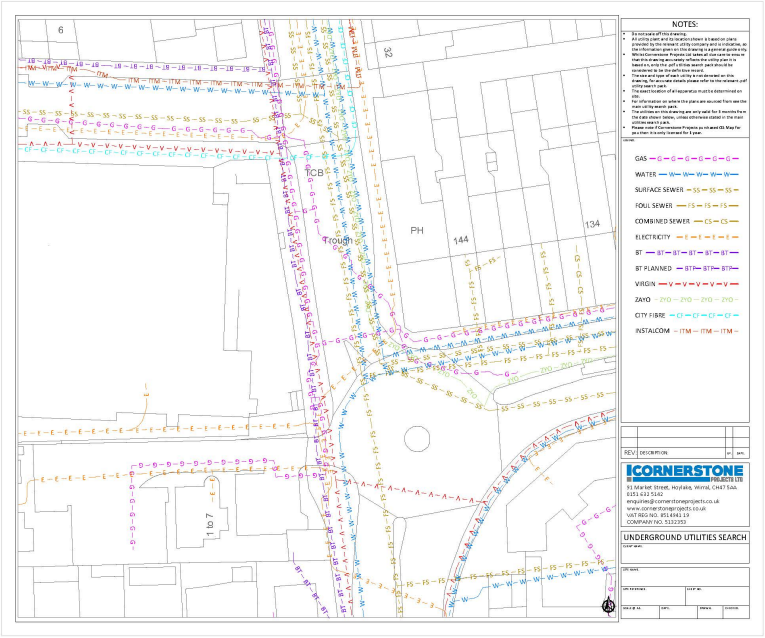
- Market leading pricing and response times
- Comprehensive utility database
- 20 Years plus experience
- Over 85,000 completed searches
- Over 6,000 registered businesses
- Searches to PAS 128 survey level D
- ISO9001 certified company

91 Market Street Hoylake Wirral CH47 5AA
Tel. 0151 632 5142
enquiries@cornerstoneprojects.co.uk
www.cornerstoneprojects.co.uk
VAT Reg. No. 851 4941 19
Company No. 5132353

Registered in England. Registered Address : Cornerstone Projects Ltd, 91 Market Street, Hoylake, Wirral CH47 5AA

Want an easier way to interpret your utility search results?

Searching through your utility results can be time consuming and complex. Here at Cornerstone, we have the ability to produce one consolidated drawing which will allow you to view all your results on a single plan. Moreover, as the utilities are drawn in separate layers, you will also be able to turn different layers on and off to allow you to focus on individual utilities.



We can produce your consolidated drawing in .dwg (CAD) format from £60.00 + VAT.
We can also convert this into a Smart .PDF starting from £35.00 + VAT.

Call us on 0151 632 5142 or **email** enquiries@cornerstoneprojects.co.uk for a quote for this site. Please provide your site name/reference.

Planning work near overhead lines? We can now help obtain the overhead heights (GS6 guidance) from the utility provider from as little as £23.50 per crossing. Find out more here

Need help with administering road opening licences, capacity checks or gaining quotes from the utility companies for connecting or diverting services?

Section 50 /Road Opening Licence – We will complete the application required to obtain the Section 50 and/or road opening licence on your behalf – our fee is from as little as £150.00+VAT plus Council charges.

Capacity check – We will complete an application to determine whether a utility has sufficient capacity for your proposed development and if not, what budget costs would be required to reinforce the network – our fee is from as little as £150.00+VAT per utility plus disbursements.

New Connections/Disconnections/Diversions – We will complete the administration required to obtain quotes from the utilities to connect/disconnect/divert from as little as £150.00+VAT per utility, plus disbursements

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