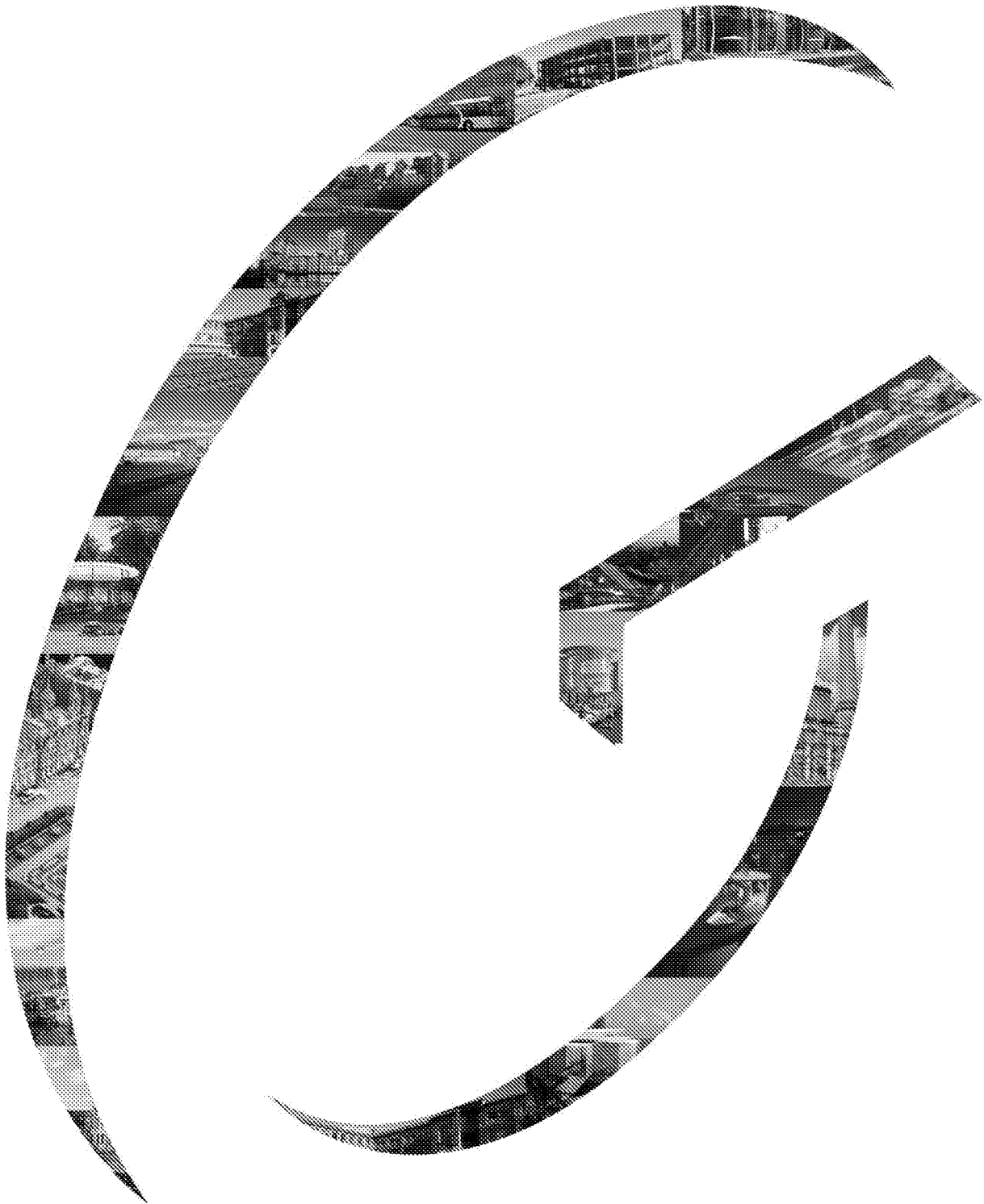




UTILITIES AND FOUL DRAINAGE ASSESSMENT
Land at Cornfield Close, Wick, Littlehampton, BN17 6HY

Prepared for: Thakeham Client Ltd
Issue 3: 9 November 2018
Ref: CV8171223/SMcN/024

Document History

Issue	Date	Description	Prepared By	Checked By
1	21 Sep 18	Draft for Client Comment	S McNair	C Salt / J Birch
2	12 Oct 18	Revised for Client Comments & updated Site Plan	S McNair	C Salt / J Birch
3	9 Nov 18	Revised for updated Site Plan	S McNair	C Salt / J Birch

Glanville

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- Structural Engineering
- Civil Engineering
- Transport & Highways
- Geomatics (Land Surveying)
- Building Surveying
- BIM

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1.0 Introduction

- 1.1 This Utilities and Foul Drainage Assessment has been prepared by Glanville Consultants on behalf of Thakeham Client Ltd to accompany a Full planning application for residential development on land at Cornfield Close, Littlehampton. This application is being progressed by Thakeham Client Ltd on behalf of the applicant Clarion Housing Association.
- 1.2 The purpose of this document is to assess the feasibility of servicing the proposed development with all necessary utilities and foul water infrastructure.
- 1.3 This assessment examines all existing utility services known to be located within the vicinity of the site. It considers the feasibility of providing new connections to the site and any potential diversionary work. The utility services examined include:
- Gas;
 - Electricity;
 - Potable water;
 - Telecommunications; and
 - Foul water.
- 1.4 Initial assessments have been made where possible based on the size and prevalence of existing supplies.
- 1.5 The surface water drainage infrastructure is described within the Flood Risk Assessment report, which has been prepared as a separate document and is submitted as part of the planning application.

2.0 Site Description and Development Proposals

Site Description

- 2.1 The site is located in Littlehampton, West Sussex, with approximate National Grid coordinates of TQ 03368 03233. A nearby postcode is BN17 6HY. A site location plan is included in Appendix A.
- 2.2 The site is approximately 2.7ha and roughly square in shape. The entirety of the site comprises the former Daisyfields caravan park, consisting of mostly undeveloped open space with existing outbuildings at the north-east corner of the site and an access road from Cornfield Close running around the centre of site. A strip of dense woodland is located along the borders of the site to the west, south and east.
- 2.3 The site is bound by existing residential properties on Cornfield Close to the north, open space to the east, south and west, with Cornfield Primary School to the north-west. There is a single access point for vehicles, taken from Cornfield Close in the north-east corner of the site.
- 2.4 Prior to its use as a Camping and Caravan Park, a large portion of the site is believed to have been a brick field, with a kiln indicated. The site has previously been subject to land filling and as such, areas of made ground are present.

Topographical Survey

- 2.5 A topographical survey has been undertaken by Sunshine Survey Ltd in November 2017. The survey indicates that the site falls in a northerly and easterly direction, with the topographical levels ranging from approximately 8.425mAOD at the south-west of the site to approximately 7.448mAOD at the north and 7.079mAOD at the south-east corner of the site. The topographical survey is included in Appendix B.

Proposed Development

- 2.6 The proposals are for the demolition of existing buildings and the erection of 77 residential homes with associated access, car parking, cycle parking, refuse/recycling storage, landscaping, earthworks and infrastructure.
- 2.7 The proposed site layout is provided in Appendix C.

3.0 Utilities Assessment

- 3.1 This section identifies the existing utility supply infrastructure on and in the vicinity of the site in order to assess the potential for adequate provision of supplies, and whether any diversions or easements are required to facilitate the development.
- 3.2 Service records have been obtained from the relevant utility companies which have apparatus within the vicinity of the site. Copies of the relevant service records obtained are included in the appendices stated below.
- 3.3 A LineSearch enquiry was also conducted to ascertain the presence of strategic apparatus, such as apparatus belonging to oil companies or the Government. The results of the LineSearch enquiry are included in Appendix D.

Existing Services

- 3.4 Service records have been obtained from the following utility companies which have apparatus within the vicinity of the site:
- SGN (gas);
 - UK Power Networks (electricity);
 - BT Openreach (telecommunications); and,
 - Southern Water (potable water and sewerage).

Gas – SGN

- 3.5 The records provided by SGN are included in Appendix E. The records indicate a 63mm low pressure (LP) main in the footway of Cornfield Close, serving the existing developments fronting Cornfield Close, to the north of the site.
- 3.6 No SGN apparatus is indicated to be located within the site boundary and as such no diversion, protection works or chargeable reinforcement works are anticipated to be required in order to facilitate the development of the site.
- 3.7 From this review of the gas services records it is proposed to connect to the LP main located in the footway of Cornfield Close. Services are to be routed through the site to the proposed dwellings via the proposed service corridor, as shown in Appendix J.

Electricity – UK Power Networks

- 3.8 The records obtained from UK Power Networks (UKPN) are included in Appendix F. The area around Cornfield Close is served by a network of low voltage (LV) underground cables, serving the residential properties, street lights and Cornfield School. The current property on the site is served by an LV underground service cable, which connects to the aforementioned network. This network connects to an 11kV high voltage (HV) underground cable in Worthing Road. There is also a network of LV underground cables serving the residential properties to the east of the site on Oakcroft Gardens.
- 3.9 Given that UKPN apparatus within the site boundary serves buildings which are proposed to be demolished as part of the development, the apparatus is proposed to be decommissioned and removed.

- 3.10 It is proposed to connect to the existing 11kV HV cable located to the north of the site in the footway of Worthing Road. HV cables will be laid to a purpose built sub-station on the site, the location of which is shown on the drawing in Appendix J. From the sub-station, a new LV network will be installed across the site, routed via the proposed service corridor, to serve each individual property.

Potable Water – Southern Water

- 3.11 The records obtained from Southern Water are included in Appendix G. The records indicate 4" and 3" distribution mains running under the verge of Cornfield Close, adjacent to the northern site boundary. These connect into the 10" trunk main network in Worthing Road. There is also a 4" distribution main indicated to serve the residential properties fronting Oakcroft Gardens to the east of the site.
- 3.12 There is no potable water apparatus indicated to be located within the site boundary, however it is understood that the current residential unit and former shower block on the site are served by the Southern Water network in Cornfield Close. Therefore, given that the apparatus within the site boundary serves buildings which are proposed to be demolished as part of the development, the apparatus is proposed to be decommissioned and removed.
- 3.13 It is proposed that the proposed development would be served by the distribution main in Cornfield Close. Under infrastructure charging rules Southern Water is obliged to provide a supply of potable water to the site, with any reinforcement work required to be funded by infrastructure charges received from the developer, however this is not anticipated to be required.

Telecommunications – BT Openreach (BT)

- 3.14 The records obtained from BT are included in Appendix H. The records indicate an existing underground network in the area, with underground cables serving the residential properties fronting Cornfield Close to the north of the site. There is also a spur indicated to serve the current residential unit in the north-east corner of the site. The site is located in an area where Fibre to the premises (FTTP) connection is available to residents. The proposed development will be constructed with FTTP connections to the dwellings in order to provide high speed internet to the residents.
- 3.15 Given that BT apparatus within the site boundary serves buildings which are proposed to be demolished as part of the development, the apparatus is proposed to be decommissioned and removed.
- 3.16 Given the prevalence and size of existing infrastructure in the vicinity of the site, no significant issues are expected in providing new supplies to the development. BT apparatus will be installed across the site, routed via the proposed service corridor, to serve each individual property.

Diversions, Easements and Protection

- 3.17 Given that no major utilities apparatus are indicated within the site boundary, diversionary works are not anticipated to be required to facilitate the development of the site.

- 3.18 Given that UKPN, Southern Water and BT apparatus within the site boundary serves buildings which are proposed to be demolished as part of the development, the apparatus is proposed to be decommissioned and removed.

Conclusions

- 3.19 Gas, electricity, potable water and telecommunications infrastructure all exist in the vicinity of the site.
- 3.20 Given the size and prevalence of existing infrastructure in the vicinity of the site, it is anticipated that there will not be any problems with supply.
- 3.21 Detailed proposals for each supplier will be obtained at the detailed design stage.

4.0 Foul Water Drainage

Existing Foul Water Drainage Infrastructure

- 4.1 Southern Water is the incumbent drainage undertaker for Littlehampton. Sewer records have been obtained from Southern Water and are included at Appendix I.
- 4.2 The records indicate a 225mm diameter gravity foul sewer in Cornfield Close, which connects into the foul water sewer in Worthing Road.
- 4.3 Existing buildings on the site currently connect to the public foul water sewer, at manhole 4302 in Cornfield Close. It is proposed to discharge foul water flows generated from the development to this same manhole.

Diversions, Easements and Protection

- 4.4 Given that Southern Water apparatus within the site boundary serves buildings which are proposed to be demolished as part of the development, the apparatus is proposed to be decommissioned and removed.

Proposed Foul Water Drainage Strategy

- 4.5 It is proposed to provide a gravity foul water sewer network to serve the development on site. This network would connect to the existing Southern Water foul water sewer in Cornfield Close via an outfall located in the north-east of the site as described in paragraph 4.3. The proposed indicative foul water drainage strategy is included in Appendix I.
- 4.6 The peak flow for 77 residential units has been calculated at 3.56 l/s in accordance with the methodology provided within Sewers for Adoption. A 225mm foul water pipe laid at a minimum gradient of 1:150 has an unsurcharged capacity of 42.87 l/s. The flows from the proposed site represent less than 9% of the unsurcharged capacity of the receiving sewer; as a result, issues with capacity are not anticipated at this location.
- 4.7 Due to the topography of the site, a gravity connection is feasible and a pumping station will not be required for discharge of foul flows from the proposed development.
- 4.8 It should be noted Southern Water is obliged to accept foul water flows generated by the proposed development and pay for any network improvements via infrastructure charges received from the developer.
- 4.9 All new foul water infrastructure constructed to serve the site will be designed in accordance with the Building Regulations Part H and remain as private drainage and the responsibility of the landowner.

5.0 Summary and Conclusion

- 5.1 This report has been prepared on behalf of Thakeham Client Ltd to accompany a Full planning application for residential development on land at Cornfield Close, Littlehampton. This application is being progressed by Thakeham Client Ltd on behalf of the applicant Clarion Housing Association.
- 5.2 The purpose of this report is to assess the feasibility of providing the proposed residential development with all necessary utilities and foul water infrastructure.
- 5.3 Existing gas, electricity, potable water, telecommunications and foul water infrastructure all exist in the vicinity of the development site.
- 5.4 Given the size and prevalence of existing infrastructure in the vicinity of the site, it is anticipated that there will not be any problems with provision of new supplies to the site.
- 5.5 Given that UKPN, Southern Water and BT apparatus within the site boundary serves buildings which are proposed to be demolished as part of the development, the apparatus is proposed to be decommissioned and removed.
- 5.6 It is proposed to provide a new gravity foul water drainage system to serve the proposed residential development and connect to the existing public foul water sewer network located in Cornfield Close.
- 5.7 The peak flow from the proposed development has been calculated at 3.56 l/s in accordance with the methodology provided within Sewers for Adoption. The flows from the proposed site represent less than 9% of the unsurcharged capacity of the receiving sewer; as a result, issues with capacity are not anticipated at this location.

Conclusion

- 5.8 It is considered that there are suitable connection points for new infrastructure to serve the proposed development, and no issue is identified in this report that will prevent the successful development of the site for the use proposed.

Appendices

Appendix A
Site Location Plan

NOTES

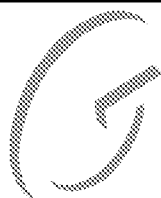
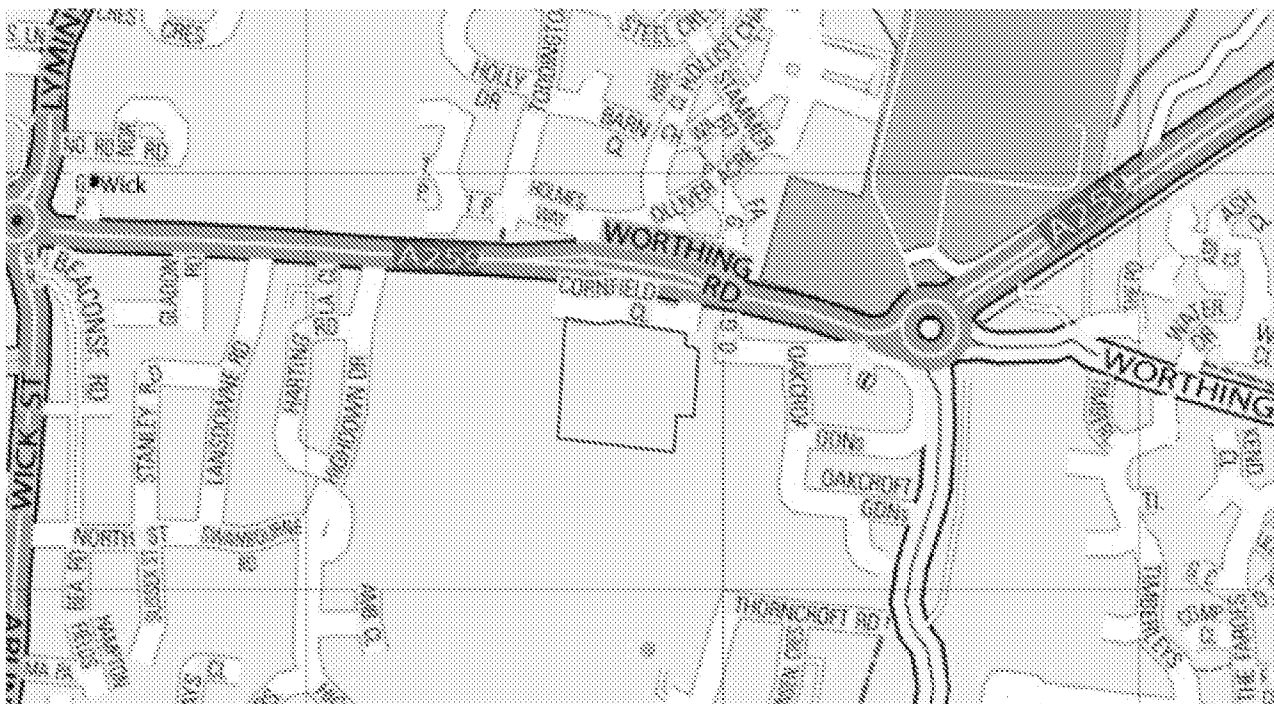
1. This drawing is to be read in conjunction with all other documents and specifications
2. Dimensions not to be scaled from drawing

LOCATION

Nearby postcode: BN17 6HY
Grid reference: Easting: 503368
Northings: 103254

KEY

Approximate site boundary —————



Glanville

Cornerstone House
62 Foxhall Road, Didcot
Oxon, OX11 7AD

Tel: (01235) 515550 Fax: (01235) 817798
post@glanvillegroup.co.uk www.glanvillegroup.co.uk

Project :

Land at Cornfield Close, Wick, Littlehampton, BN17 6HY

Title :

Site Location Plan

Project Engineer: C. Salt

Scale: NTS

Project Director : J. Birch

Date : Sep 2018

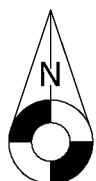
Drawing No.

8171223-SK01

Rev

P1

Appendix B
Topographical Survey



	2.

[illegible]

Surveyor	GY
Drawn	GY

Drug No.	11001A	Drawn	GY
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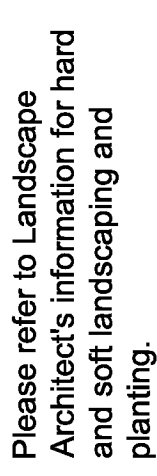


ID AT CORNFELD CLOSE LITTLE HAMPTON

Client: **THAKEHAM HOMES**

Appendix C
Proposed Site Layout

Notes



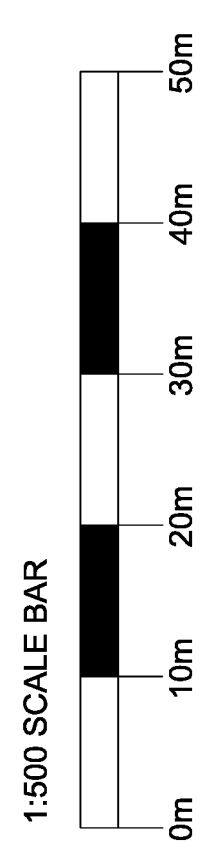
Rev	Date + notes	Drawn	Chkd
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Project _____

Proposed Site Plan

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Scale(s)	Size	Chkd
1:500@A1	A1	TW SH

Planning

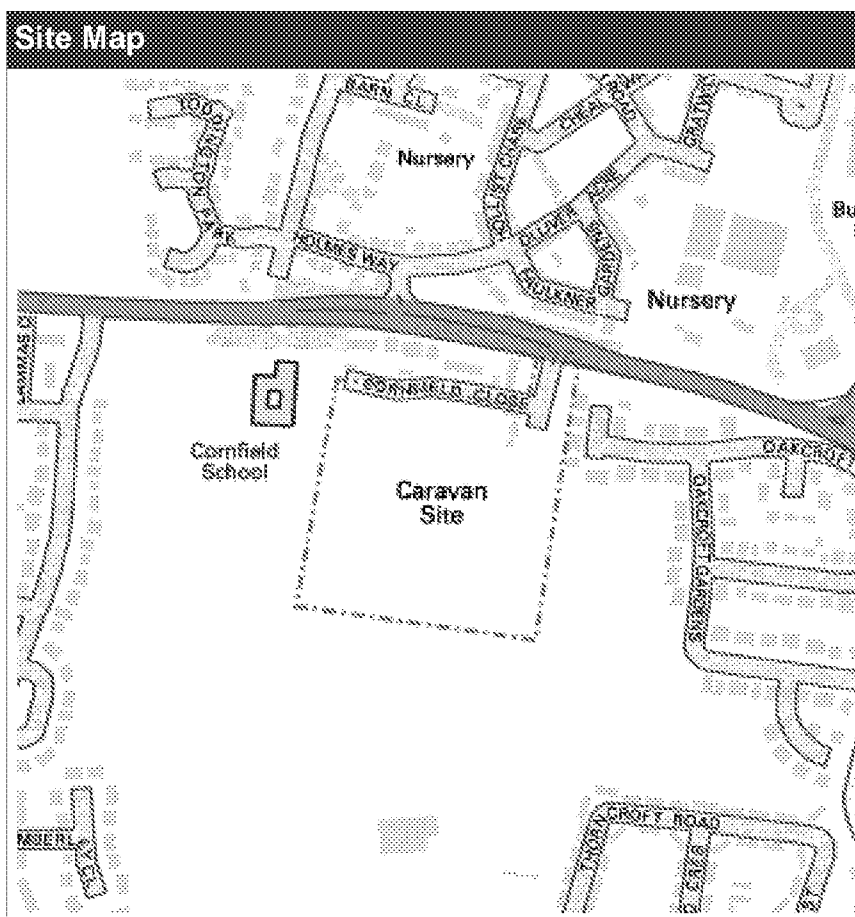


Appendix D
LineSearch Enquiry

Enquirer			
Name	Ms Debbie Wigston	Phone	[REDACTED]
Company	Glanville Consultants	Mobile	Not Supplied
		Fax	01235817799
Address	Cornerstone House 62 Foxhall Road Didcot Oxfordshire OX11 7AD		
Email	[REDACTED]		
Notes	Please ensure your contact details are correct and up to date on the system in case the LSBUD members need to contact you.		

Enquiry Details			
Scheme/Reference	CV8171223		
Enquiry type	Initial Enquiry	Work category	Development Projects
Start date	04/01/2018	Work type	Housing
End date	31/05/2018	Site size	875 metres in length
Searched location	XY= 503368, 103226 Easting/Northing	Work type buffer*	25 metres
Confirmed location	503441 103319		

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



Asset Owners

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

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

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

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

Below are three lists of asset owners:

1. LSBUD Members who have assets registered within your search area. ("Affected")
 - a. These LSBUD Members will either:
 - i. Ask for further information ("Email Additional Info" noted in status). The additional information includes: Site contact name and number, Location plan, Detailed plan (minimum scale 1:2500), Cross sectional drawings (if available), Work Specification.
 - ii. Respond directly to you ("Await Response"). In this response they may either send plans directly to you or ask for further information before being able to do so, particularly if any payments or authorisations are required.
2. LSBUD Members who do not have assets registered within your search area. ("Not Affected")
3. Non LSBUD Members who may have assets within your search area. Please note that this list is not exhaustive and all details are provided as a guide only. It is your responsibility to identify and consult with all asset owners before proceeding.

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

For National Grid Gas Distribution Ltd below 2 bar asset information please go to www.beforeyoudig.nationalgrid.com

Enquiry Confirmation

LSBUD Ref: 11920103

Date of enquiry: 03/01/2018

Time of enquiry: 12:56

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

List of affected LSBUD members			
Asset Owner	Phone/Email	Emergency Only	Status
SGN	08009121722	0800111999	Await response
UK Power Networks	08000565866	08000565866	Await response

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

List of not affected LSBUD members		
AWE Pipeline	Gamma	Premier Transmission Ltd (SNIP)
BOC Limited (A Member of the Linde Group)	Gateshead Energy Company	Prysmian Cables & Systems Ltd (c/o Western Link)
BP Exploration Operating Company Limited	Gigaclear PLC	Redundant Pipelines - LPDA
BPA	Humbly Grove Energy	RWEnpower (Little Barford and South Haven)
Carrington Gas Pipeline	IGas Energy	SABIC UK Petrochemicals
CATS Pipeline c/o Wood Group PSN	INEOS FPS Pipelines	Scottish Power Generation
Cemex	INEOS Manufacturing (Scotland and TSEP)	Seabank Power Ltd
Centrica Storage Ltd	INOVYN Enterprises Limited	Shell (St Fergus to Mossmorran)
CLH Pipeline System Ltd	Intergen (Coryton Energy or Spalding Energy)	Shell Pipelines
Concept Solutions People Ltd	Mainline Pipelines Limited	SSE (Peterhead Power Station)
ConocoPhillips (UK) Ltd	Manchester Jetline Limited	Total (Colnbrook & Colwick Pipelines)
DIO (MOD Abandoned Pipelines)	Manx Cable Company	Total Finaline Pipelines
E.ON UK CHP Limited	Marchwood Power Ltd (Gas Pipeline)	Transmission Capital
EirGrid	Melbourn Solar Limited	Uniper UK Ltd
Electricity North West Limited	National Grid Gas (Above 7 bar), National Grid Gas Distribution Limited (Above 2 bar) and National Grid Electricity Transmission	Vattenfall
ENI & Himor c/o Penspen Ltd	Northumbrian Water Group	Veolia ES SELCHP Limited
EnQuest NNS Limited	NPower CHP Pipelines	Western Power Distribution
EP Langage Limited	Oikos Storage Limited	Westminster City Council
ESP Utilities Group	Ørsted	Wingas Storage UK Ltd
ESSAR	Perenco UK Limited (Purbeck Southampton Pipeline)	Zayo Group UK Ltd c/o JSM Group Ltd
Esso Petroleum Company Limited	Petroineos	
Fulcrum Pipelines Limited	Phillips 66	

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

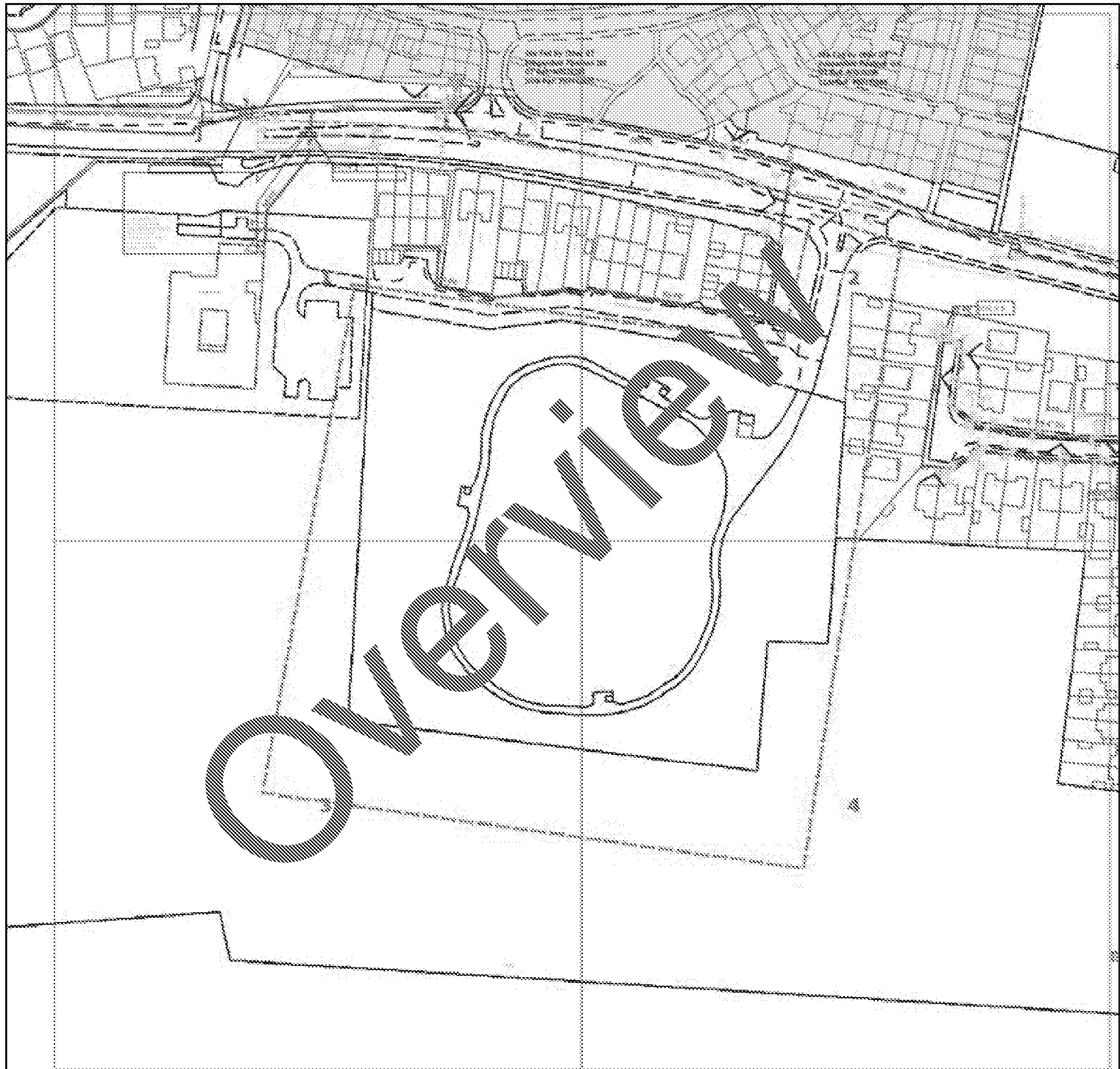
Non-LSBUD members (Asset owners not registered on LSBUD)			
Asset Owner	Preferred contact method	Phone	Status
BT	https://www.swns.bt.com/pls/mbe/welcome.home	08009173993	Not Notified
CityFibre	asset.team@cityfibre.com	033 3150 7282	Not Notified
Colt	plantenquiries@catelecomuk.com	01227768427	Not Notified
Energetics Electricity	plantenquiries@energetics-uk.com	01698404646	Not Notified
ENGIE	nrsua@cofely-gdfsuez.com	01293 549944	Not Notified
GTC	https://pe.gtc-uk.co.uk/PlantEnqMembership	01359240363	Not Notified
GTT (formerly Hibernia Networks)	owen.maguire@gtt.net	01704 322 300	Not Notified
Interoute	interoute.enquiries@plancast.co.uk	02070259000	Not Notified
KPN (c/-Instalcom)	kpn.plantenquiries@instalcom.co.uk	n/a	Not Notified
Level 3 Communications UK Ltd (C/-Instalcom)	plantenquiries@instalcom.co.uk	02087314613	Not Notified
Mobile Broadband Network Limited	mbnl.plant.enquiries@turntown.com	01212 621 100	Not Notified
Sky UK Limited	nrsua@sky.uk	02070323234	Not Notified
Southern Water	searches@southernwater.co.uk	08452700212	Not Notified
Tata (c/-McNicholas)	plantenquiries@mcnicholas.co.uk	03300558469	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
Vtesse Networks	https://plant.interoute.com/plant-enquiries/	01992532100	Not Notified

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Appendix E
Service Records - SGN



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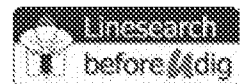


Contact Us

SGN Safety Admin Team:
0800 912 1722
Email:
plantlocation@sgn.co.uk

Low Pressure Mains	-----	History Data	-----
Medium Pressure Mains	-----	LAs	-----
Intermediate Pressure Mains	-----	GTs	█
High Pressure Mains	-----	SSSIs	█
Some Examples Of Plant Items			
Valve	⋈	Syphon	○
		Depth of Cover	∨
		Diameter Change	+
		Material Change	

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Date Requested: 03/01/2018
Job Reference: 11920103
Site Location: 503366 103245
Requested by:
Ms Debbie Wigston
Your Scheme/Reference:
CV8171223

This plan shows the location of those pipes owned by Scotia Gas Networks (SGN) by virtue of being a licensed Gas Transporter (GT). Gas pipes owned by other GTs or third parties may also be present in this area but are not shown on this plan. Information with regard to such pipes should be obtained from the relevant owners. No warranties are given with regard to the accuracy of the information shown on this plan. Service pipes, valves, siphons, sub-connections etc. are not shown but their presence should be anticipated. You should be aware that a small percentage of our pipes/assets may be undergoing review and will temporarily be highlighted in yellow. If your proposed works are close to one of these pipes, you should contact the SGN Safety Admin Team on 0800 912 1722 for advice. No liability of any kind whatsoever is accepted by SGN or its agents, servants or sub-contractors for any error or omission contained herein. 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 plant location information is provided to all persons (whether direct labour or sub-contractors) working for you on or near gas apparatus. Information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

Report damage immediately -- KEEP EVERYONE AWAY FROM THE AREA
0800 111 999

This plan is reproduced from or based on the OS map by Scotia Gas Networks plc, with the sanction of the controller of the HM Stationery Office. Crown Copyright Reserved. Southern Gas -- 100044373 and Scotland Gas -- 100044366.



Contact Us

SGN Safety Admin Team:
0800 912 1722
Email:
plantlocation@sgn.co.uk

Low Pressure Mains

Medium Pressure Mains

Intermediate Pressure Mains

High Pressure Mains

Some Examples Of Plant Items

Valve



Syphon



Depth of Cover



Diameter Change



Material Change



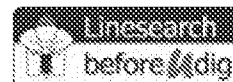
History Data

LAs

GTs

SSSIs

Warning: PDF is designed for colour print only, with no page scaling. This information is given as a guide only and its accuracy cannot be guaranteed.



Date Requested: 03/01/2018
Job Reference: 11920103
Site Location: 503366 103245
Requested by:
Ms Debbie Wigston
Your Scheme/Reference:
CV8171223

Exact Scales:
1:1000 Area or Circle dig site
1:1000 Line dig site

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Report damage immediately -- KEEP EVERYONE AWAY FROM THE AREA
0800 111 999

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By Other GT
ent Pipelines Ltd
N7039296
P07112855

Site Fed By Other GT
Independent Pipelines Ltd
GT Ref: N7039296
SGN Ref: P07112855



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Email:
plantlocation@sgn.co.uk

Low Pressure Mains

Medium Pressure Mains

Intermediate Pressure Mains

High Pressure Mains

Some Examples Of Plant Items

Valve



Syphon



Depth of Cover



Diameter Change



Material Change



History Data

LAs

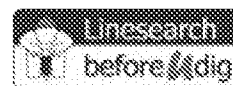
GTs



SSSIs



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Date Requested: 03/01/2018
Job Reference: 11920103
Site Location: 503366 103245
Requested by:
Ms Debbie Wigston
Your Scheme/Reference:
CV8171223

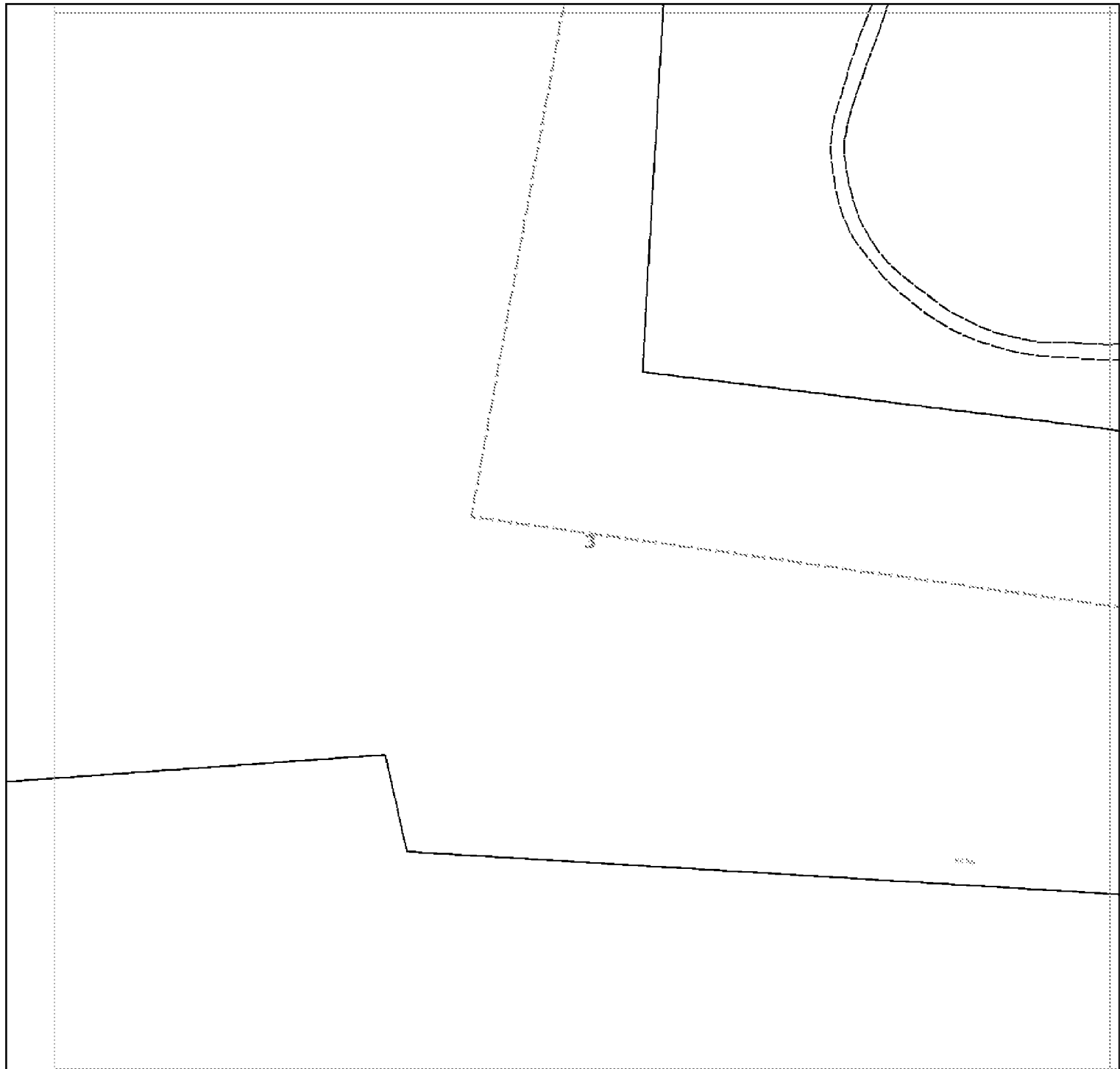
Exact Scales:
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1:1000 Line dig site

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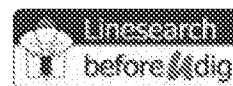


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plantlocation@sgn.co.uk

Low Pressure Mains		History Data	
Medium Pressure Mains		LAs	
Intermediate Pressure Mains		GTs	
High Pressure Mains		SSSIs	
Some Examples Of Plant Items			
Valve		Syphon	
Depth of Cover		Diameter Change	
		Material Change	

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Some Examples Of Plant Items

Valve



Syphon



Depth of Cover



Diameter Change



Material Change



History Data

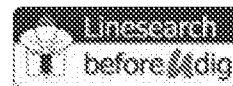
LAs

GTs

SSSIs



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Appendix F
Service Records - UK Power Networks