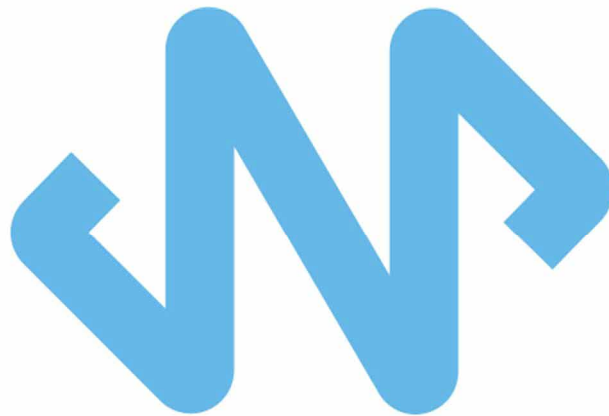




JNP GROUP
CONSULTING ENGINEERS

Utilities Appraisal

Project: Land at Kingscroft Farm
Havant

Client: Foreman Homes

Reference: BR31049-JNP-XX-XX-RP-C-1001 P02

Date: July 2023

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FOR AND ON BEHALF OF JNP GROUP

Date: July 2023

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1 INTRODUCTION

1.1 Terms of Reference

1.1.1 JNP Group was commissioned by Foreman Homes to undertake a Utilities Appraisal for the proposed development of the site known as Land and Kingscroft Farm, Havant (closest postcode PO9 1QJ). The site is bounded by greenfield/landscape buffer (including the Hermitage Stream) to the north, Kingscroft Business Park/industrial estate parking to the south, Kingscroft Business Park/industrial estate and existing residential development to the east and greenfield/landscape buffer to the west. (Appendix A).

1.1.2 This report is based on information available from various utility suppliers. Asset location plans are considered to be accurate at the date of issue. Asset location plans should be requested from the Statutory Undertakers at regular intervals to confirm any changes to existing and/or new infrastructure that may have been put in place. Suppliers state that the information shown on asset plans is given without warranty and its accuracy therefore cannot be guaranteed.

1.1.3 Due to the indicative nature of this information, a full ground penetrating radar survey should be undertaken across the site to locate all existing services. This should be carried out prior to any construction work commencing on site. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual location of all cables, pipes and any other utility apparatus before any mechanical excavation begins.

1.1.4 This report aims to establish:

- The location of existing cables, pipes and any other utility apparatus within the development site and the local vicinity.
- Capacity checks (where attainable) to supply electricity, potable water, and foul drainage to the development.
- Supplier information and indicative timelines associated with the supply of electricity, potable water, foul drainage and telecommunications to the development including supply and any reinforcement or diversion works required.

1.2 Site Description

1.2.1 The development (Appendix B) comprises of approximately 120 No. Dwellings, with an associated access point from Meyrick Road and creation of a network of roads and footways in addition to public open space, LEAPS, sustainable urban drainage systems (SuDs), landscape buffers and associated infrastructure.

1.2.2 The approximate coordinates for the centre of the site are as follows:

- Easting: 470650
- Northing: 106200

1.3 General

1.3.1 Enquiries have been made to the following statutory undertakers that maintain services within the vicinity of the site:

- SGN (Gas)
- SSEN (Electricity – enquiries were made via GTC)
- Portsmouth Water (Water supply)
- Southern Water (Foul and surface water drainage)
- Openreach (Telecommunications)

2 GAS

2.1 Asset Maps

2.1.1 SGN is the gas supplier for the local area (refer to asset location plans in Appendix C).

2.1.2 Asset location plans indicates that no SGN infrastructure passes through the site.

2.1.3 Asset location plans indicate that the following SGN infrastructure passes within close proximity of the site:

- 400mm $\varnothing$ st (assumed steel) high pressure main running south of the site, near the A27
- 16" $\varnothing$ st (assumed steel) medium pressure main running south of the site, near the A27
- Various 63/90mm $\varnothing$ polyethylene low and medium pressure pipes serving various units within the Kingscroft Business Park/industrial estate to the east of the site

2.2 Network Reinforcement (Capacity)

2.2.1 Due to the introduction of The Future Homes Standard from 2025, it is unlikely that gas will be supplied to this site. Therefore, no enquires to SGN have been made in regard to gas supply.

2.3 Connection Works – Offsite

2.3.1 As per 2.2.1 above.

2.4 Connection Works – Onsite

2.4.1 As per 2.2.1 above.

2.5 Diversion Works

2.5.1 As SGN does not appear to have any infrastructure within the site or along the proposed site access, diversion works of gas infrastructure are not anticipated to be required.

3 ELECTRICITY

3.1 Asset Maps

3.1.1 SSEN is the electricity supplier for the local area (refer to asset location plans in Appendix D).

3.1.2 Asset location plans indicate the following SSEN infrastructure passes through the site:

- 'H' poles and 33kV cables run across the site, north to southeast towards the Kingscroft Business Park/industrial estate. Portsmouth Water have advised there is an existing wayleave between Portsmouth Water and SSEN which they have shown in green on drawing 'H6214 Existing Mains and Easements' in Appendix E. This appears to relate to these assets

3.1.3 SSEN Asset location plans indicate that the following SSEN infrastructure passes within close proximity of the site:

- Low voltage mains serving various units within the Kingscroft Business Park/industrial estate and existing residential to the east of the site
- 11kV mains serving various units within the Kingscroft Business Park/industrial estate and existing residential to the east of the site
- 132kV and 11kV overhead cables run over the A27, south west of the site

3.2 Network Reinforcement (Capacity)

3.2.1 JNP Group commissioned GTC to provide a quotation for the supply of electricity to the site, including calculating the demand loads required and liaison with SSEN to establish a suitable point of connection.

3.2.2 SSEN have confirmed there is sufficient capacity in the existing network to accommodate the development.

3.3 Connection Works – Offsite

3.3.1 The firm point of connection offered by SSEN is within the northern footway of Ridgway, within the Kingscroft Business Park/industrial estate, requiring 3m of cabling from here to the edge of the site.

3.4 Diversion Works

3.4.1 There are 11kV cables in the vicinity of the site entrance that appear to be underground. A GPR survey would be required to ascertain the depth of these cables to confirm if they may be affected by the works.

3.4.2 For the 11kV overhead cables crossing the site, a survey must confirm the height of the existing overhead line, as a minimum clearance of 5.8 m is required (HSE's Guidance Note GS6). If there is not sufficient height, these cables may need to be grounded or raised up. In either scenario a buffer/easement is likely to be required, the dimensions of which will need to be confirmed by SSEN.

4 WATER SUPPLY

4.1 Asset Maps

4.1.1 Portsmouth Water is the potable water supplier for the local area (refer to asset location plans in Appendix E).

4.1.2 Asset location plans indicate the following Portsmouth Water infrastructure passes through the site:

- A 400mm $\varnothing$ ductile iron trunk watermain that turns into a 15" $\varnothing$ cast iron pipe runs north to south, near the eastern boundary of the site
- There is also an abandoned main in the east of the site

4.1.3 Asset location plans indicate that the following Portsmouth Water infrastructure passes within close proximity of the site:

- 6" $\varnothing$ PVC pipes serving various units within the Kingscroft Business Park/industrial estate
- 3" $\varnothing$ cast iron pipe running along Meyrick Road to the north of the site
- 100mm $\varnothing$ ductile iron pipe serving existing residential area to the east of the site
- 450mm $\varnothing$ fibre reinforced concrete pipe that runs south of the site near the A27

4.2 Network Reinforcement (Capacity)

4.2.1 Portsmouth Water have confirmed there is sufficient capacity in the existing network to accommodate the development.

4.3 Diversion Works

4.3.1 A survey may be required to confirm the position of the 3" $\varnothing$ cast iron pipe running along Meyrick Road near the proposed site access. However, the pipe appears to be in the northern side of the carriageway and therefore may be unaffected by the site access works.

4.3.2 Portsmouth Water have advised there is an existing wayleave between Portsmouth Water and SEN which they have shown in green on drawing 'H6214 Existing Mains and Easements' in Appendix E. This appears to relate to the existing overhead SSE powerlines running through the site that are discussed in section 3 of this report.

4.3.3 Portsmouth Water have also advised that their 400mm ductile iron and 15" cast iron main running through the eastern part of the site may need to be diverted, as they appear to clash with the proposed layout. They have provided an overlay that indicates some sections of the main are very close to, or underneath proposed plots. Due to the indicative nature of the asset records, a survey will be required to confirm the position and depths of the watermain and determine if it can remain with an easement, or if any section will be subject to diversion works to avoid clashes with the proposals. This overlay is also provided in Appendix E.

5 FOUL DRAINAGE

5.1 Asset Maps

5.1.1 Southern Water is the foul drainage undertaker for the local area (refer to asset location plans in Appendix F).

5.1.2 Asset location plans indicate the following Southern Water infrastructure passes through the site:

- Three different pipes run roughly in parallel, crossing the site north to south near the eastern boundary of the site:
 - o 1650mmØ concrete pipe
 - o 525mmØ cast iron pipe
 - o 600mmØ unknown material pipe

5.1.3 Asset location plans indicate that the following Southern Water foul water infrastructure passes within close proximity of the site:

- Various pipe networks connect into the 3 pipes mentioned above

5.2 Network Reinforcement (Capacity)

5.2.1 Southern Water have confirmed there is sufficient capacity in the existing network to accommodate the proposed 0.88l/s of foul flows from the development.

5.3 Connection Works – Offsite

5.3.1 No offsite works are anticipated, since there is capacity within the foul network that passes through the site.

5.4 Connection Works – Onsite

5.4.1 The proposed discharge point is manhole 7103 on the 1650mmØ concrete pipe that runs through the site.

5.4.2 On-site foul infrastructure would be constructed by the developer and offered to Southern Water for adoption under an S104 agreement.

5.5 Diversion Works

5.5.1 A survey will be required to confirm the position and depths of the pipes that cross through the site and identify and confirm the position and status of the abandoned main. Given the proximity of the 3 live pipes to each other and their diameters, these are best allowed for within the masterplan with appropriate easements, as opposed to proposing to divert all 3 mains. However, these foul water sewers appear to have already been factored into the masterplan, so no diversion works are anticipated.

6 SURFACE WATER DRAINAGE AND CULVERTED WATERCOURSE

6.1 Overview

6.1.1 The design of a surface water sewer network is outside of the scope of this report, however since both the existing surface water sewer and existing culverted watercourse are critical to the proposed masterplan, details about these assets has been added below.

6.1.2 Southern Water have not been approached in regard to capacity within their surface water network. However, given the proximity to both the culverted watercourse discussed in 6.5 below and the open section of the Hermitage Stream near to the site, it is anticipated that the site could drain into a combination of either one of the watercourses that runs through or near the site or the existing surface water sewer that crosses the site. The developer will need to further explore surface water drainage options by commissioning a drainage strategy.

6.2 Asset Maps

6.2.1 Southern Water is the surface water drainage undertaker for the local area (refer to asset location plans in Appendix F).

6.2.2 Asset location plans indicate the following Southern Water infrastructure passes through the site:

- Initially 450mm, increasing to 600mm $\varnothing$ concrete pipe surface water sewer that appears to discharge into the culverted watercourse that runs through the site, just north of Kingscroft Business Park/industrial estate

6.2.3 Asset location plans indicate that no other Southern Water surface water infrastructure passes within close proximity of the site.

6.3 Diversion Works – Surface Water Sewer

6.3.1 The surface water sewer that crosses the site appears to have already been factored into the masterplan, so no diversion works are anticipated.

6.4 Culverted Watercourse

6.4.1 There is a branch of the Hermitage Stream (in addition to the main open route of the watercourse) that appears to be culverted and runs through the site from north east to south west.

6.5 Diversion Works – Culverted Watercourse

6.5.1 It is likely that the culvert will need to remain insitu, as any diversion works are likely to be uneconomical. The culvert appears to have already been factored into the masterplan, but a survey is required at an early stage to confirm the exact position of the culvert in order to confirm the masterplan allows for it along the full length of the culvert. Depths of the culvert as well as any other relevant details such as size and culvert material are also likely to be required for the detailed design of the site, and should be obtained at the same time if possible.

7 TELECOMMUNICATIONS

7.1 Asset Maps

7.1.1 Openreach (previously part of British Telecommunications plc (BT)) is the telecommunications supplier for the local area (refer to asset location plans in Appendix G).

7.1.2 Asset location plans indicate that no Openreach infrastructure passes through the site.

7.1.3 Asset location plans indicate that the following Openreach infrastructure passes within close proximity of the site:

- Cable and boxes serving various units within the Kingscroft Business Park/industrial estate and existing residential to the east of the site
- Cable and poles appear to cross the Hermitage Stream from Meyrick Road, possibly to serve the waterworks to the north of the site

7.2 Network Reinforcement (Capacity)

7.2.1 Openreach has an obligation to provide all approved developments with telecommunication infrastructure. Openreach have not yet been approached regarding supplying the development, as their stated position is not to progress any budget indications until planning has been granted.

7.3 Connection Works – Onsite

7.3.1 For residential developments with more than 19 plots, Openreach will install broadband infrastructure to the edge of the site and to the premises for free, subject to a framework agreement.

7.4 Diversion Works

7.4.1 As Openreach does not appear to have any infrastructure within or along the proposed site access, diversion works of telecoms infrastructure are not anticipated to be required.

8 SUMMARY AND RECOMMENDATIONS

8.1 General

- 8.1.1 The asset location plans obtained from the various supplies indicate infrastructure located both on-site and within the local vicinity.
- 8.1.2 All capacity checks must be reviewed at detailed design stage where final designs and any required upgrades will be fully detailed and costed.
- 8.1.3 The report has been produced based upon asset records plans and communication obtained between March and July 2023.

8.2 Gas

- 8.2.1 Asset location plans indicates that no SGN infrastructure passes through the site.
- 8.2.2 Due to the introduction of The Future Homes Standard from 2025, it is unlikely that gas will be supplied to this site. Therefore, no enquires to SGN have been made in regard to gas supply.

8.3 Electricity

- 8.3.1 Asset location plans indicate SSEN overhead lines pass through the site. These are likely to need grounding to suit the development.
- 8.3.2 SSEN have confirmed there is sufficient capacity in the existing network to accommodate the development.

8.4 Water Supply

- 8.4.1 Asset location plans indicate Portsmouth Water have live and abandoned watermains passing through the site.
- 8.4.2 Portsmouth Water have confirmed there is sufficient capacity in the existing network to accommodate the development.

8.5 Foul Drainage

- 8.5.1 Asset location plans indicate Southern Water have various live sewers passing through the site.
- 8.5.2 Southern Water have confirmed there is sufficient capacity in the existing network to accommodate the development.

8.6 Surface Water Drainage and Culverted Watercourse

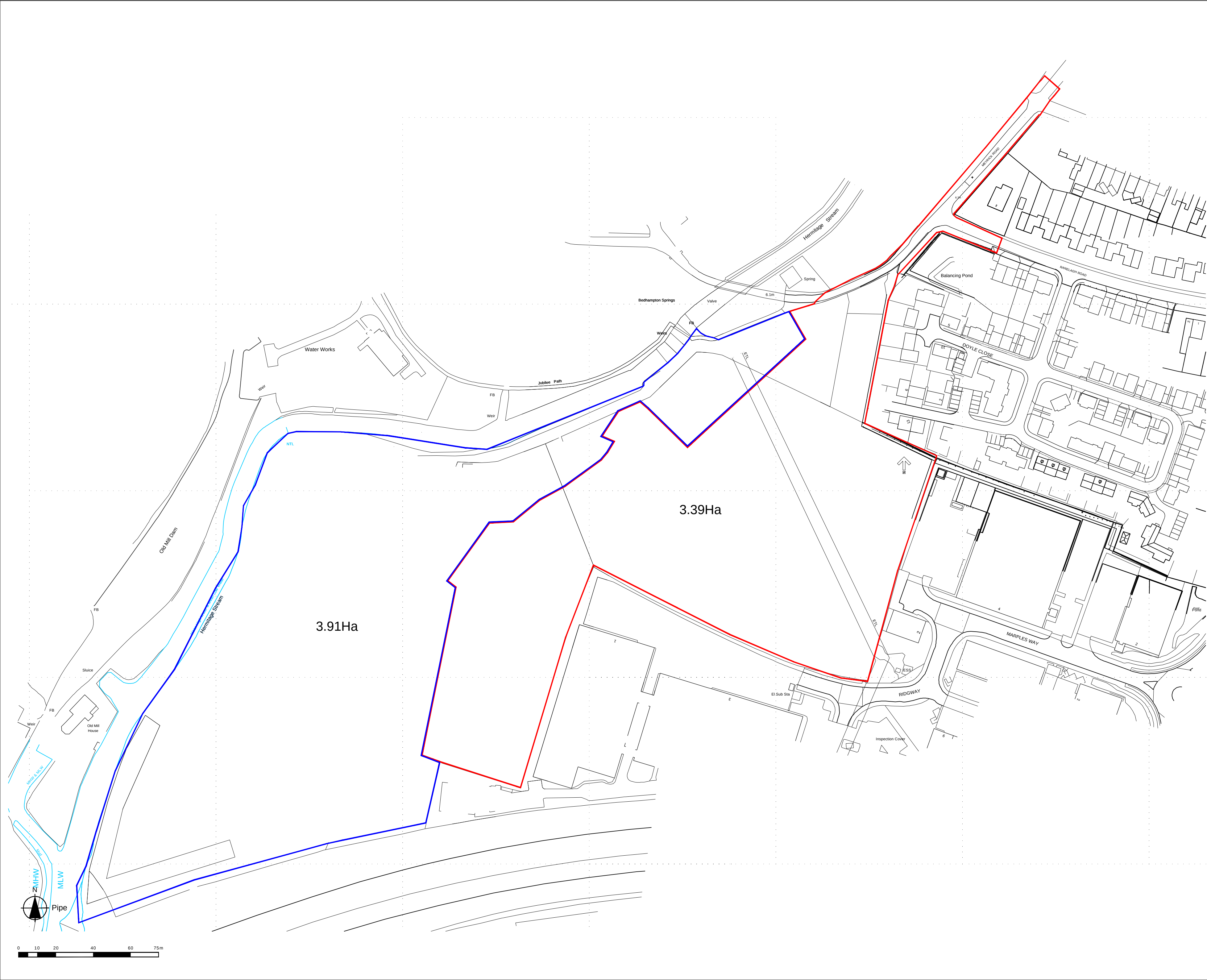
- 8.6.1 Asset location plans indicate Southern Water have a live sewer passing through the site.
- 8.6.2 There is a branch of the Hermitage Stream that appears to be culverted and runs through the site.

8.7 Telecommunications

8.7.1 Asset location plans indicate that no Openreach infrastructure passes through the site.

8.7.2 Openreach has an obligation to provide all approved developments with telecommunication infrastructure. Openreach have not yet been approached regarding supplying the development, as their stated position is not to progress any budget indications until planning has been granted.

APPENDIX A: SITE LOCATION PLAN



Please Note:

This drawing must not be scaled, dimensions to be checked on site and any discrepancies are to be highlighted to the Architect prior to construction.

Prior to the commencement of any works, the Contractor is to check and / or determine all construction details including checking existing site levels and dimensions.

This drawing is to be read in conjunction with all other project drawings, construction notes and / or project specifications including those by other project consultants and specialists. All discrepancies should be reported immediately.

Design subject to detail development / approval.
Measurements and accommodation schedules subject to amendments following coordinated input by others.
Costings cannot be finalised until approval /confirmation by relevant authorities and Client.

Further design information:



F	Red line amended to exclude areas within the flood risk zone	28.02.23	VP/HJE
E	Amended to client's comments	13.06.22	VP/HJE
D	Amended to client's comments	24.05.22	VP/HJE
C	Amended to client's comments	17.05.22	VP/HJE
B	Red line amended	13.05.22	VP/HJE
A	Red line amended	26.04.22	VP/HJE

Rev.	Description	DATE	DB / CB
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Date Apr '22
Drawn By/Checked By VP / HJE
Scale 1:1250 @ A2
Revision F
Project Land at Kingscroft Farm
Meyrick Road, Havant
Title Location Plan
Dwg# 18.099.01
Status Planning

APPENDIX B: SITE LAYOUT



Please Note:

This drawing must not be scaled, dimensions to be checked on site and any discrepancies are to be highlighted to the Architect prior to construction.

Prior to the commencement of any works, the Contractor is to check and / or determine all construction details including checking existing site levels and dimensions.

This drawing is to be read in conjunction with all other project drawings, construction notes and / or project specifications including those by other project consultants and specialists. All discrepancies should be reported immediately.

Design subject to detail development / approval.
Measurements and accommodation schedules subject to amendments following coordinated input by others.
Costings cannot be finalised until approval / confirmation by relevant authorities and Client.

Further design information:



J	ProW increased to 3m, connection to Marples Way shown	09.05.23	VP/HJE
H	Bat corridors not shown	07.03.23	VP/HJE
G	Amended to new layout	01.03.23	VP/HJE
F	Bat Corridors shown	21.10.22	VP/HJE
E	Amended to client's comments	21.06.22	VP/HJE
D	Access amended to highways' design	17.05.22	VP/HJE
C	Amended to client's comments	13.05.22	VP/HJE
B	Red line removed	26.04.22	VP/HJE
A	Amended to client comments	11.04.22	DW/HJE

Rev.	Description	DATE	DB / CB
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Date Apr '22
Drawn By/Checked By VP / HJE
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Revision J
Project Land at Kingscroft Farm
Meyrick Road, Havant
Title Illustrative Site Plan
Dwg# 18.099.02
Status Sketch

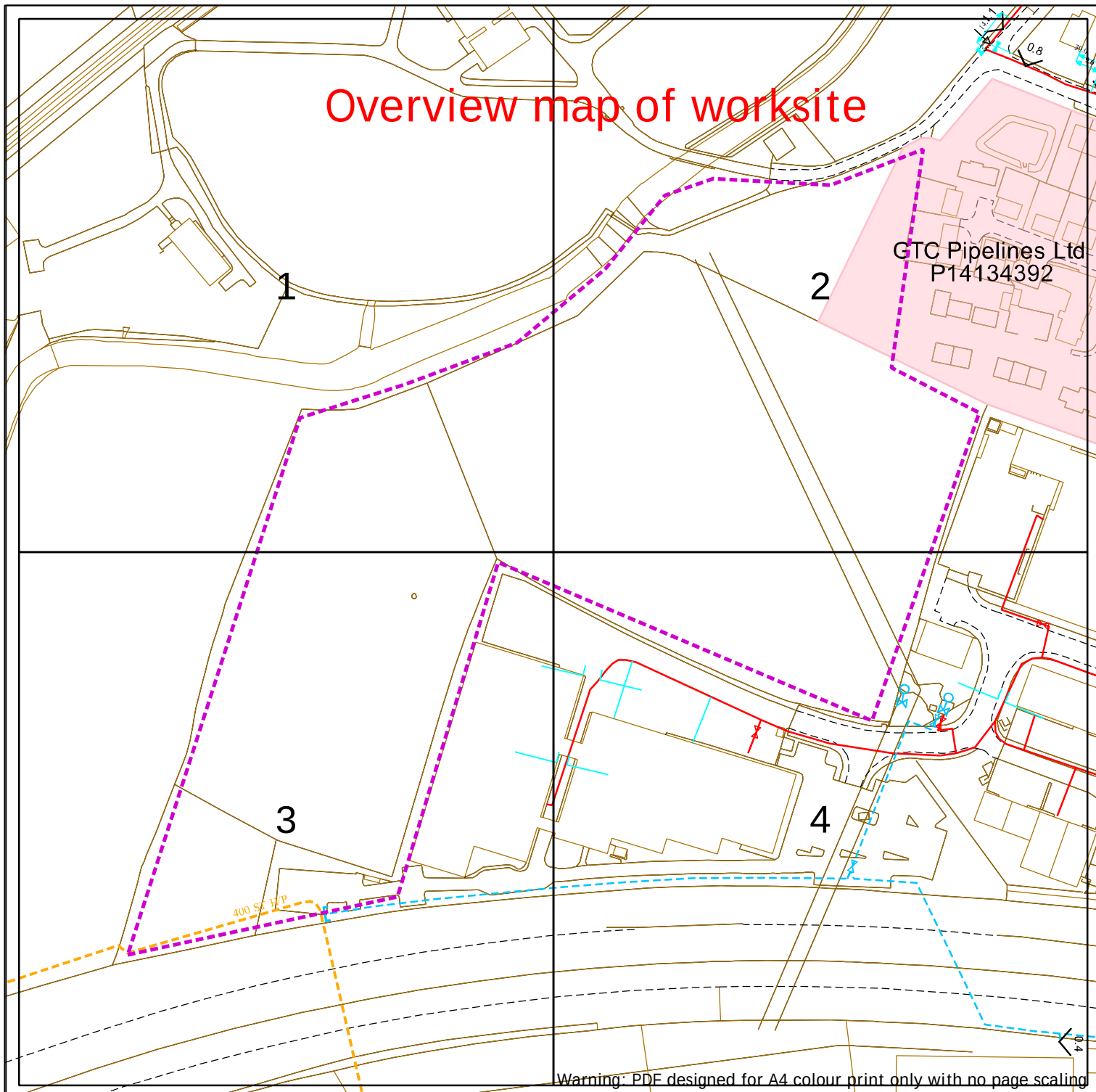
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APPENDIX C: GAS ASSET RECORDS AND COMMUNICATIONS

Overview map of worksite



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Email:
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Low Pressure Mains

Medium Pressure Mains

Intermediate Pressure Mains

High Pressure Mains

Some Examples Of Plant Items

Valve 5

Syphon

Depth of Cover

≡

Digsite:

Line:

LAs

GTs

Diameter Change

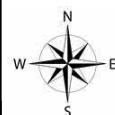
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Area:

SSSIs

Material Change

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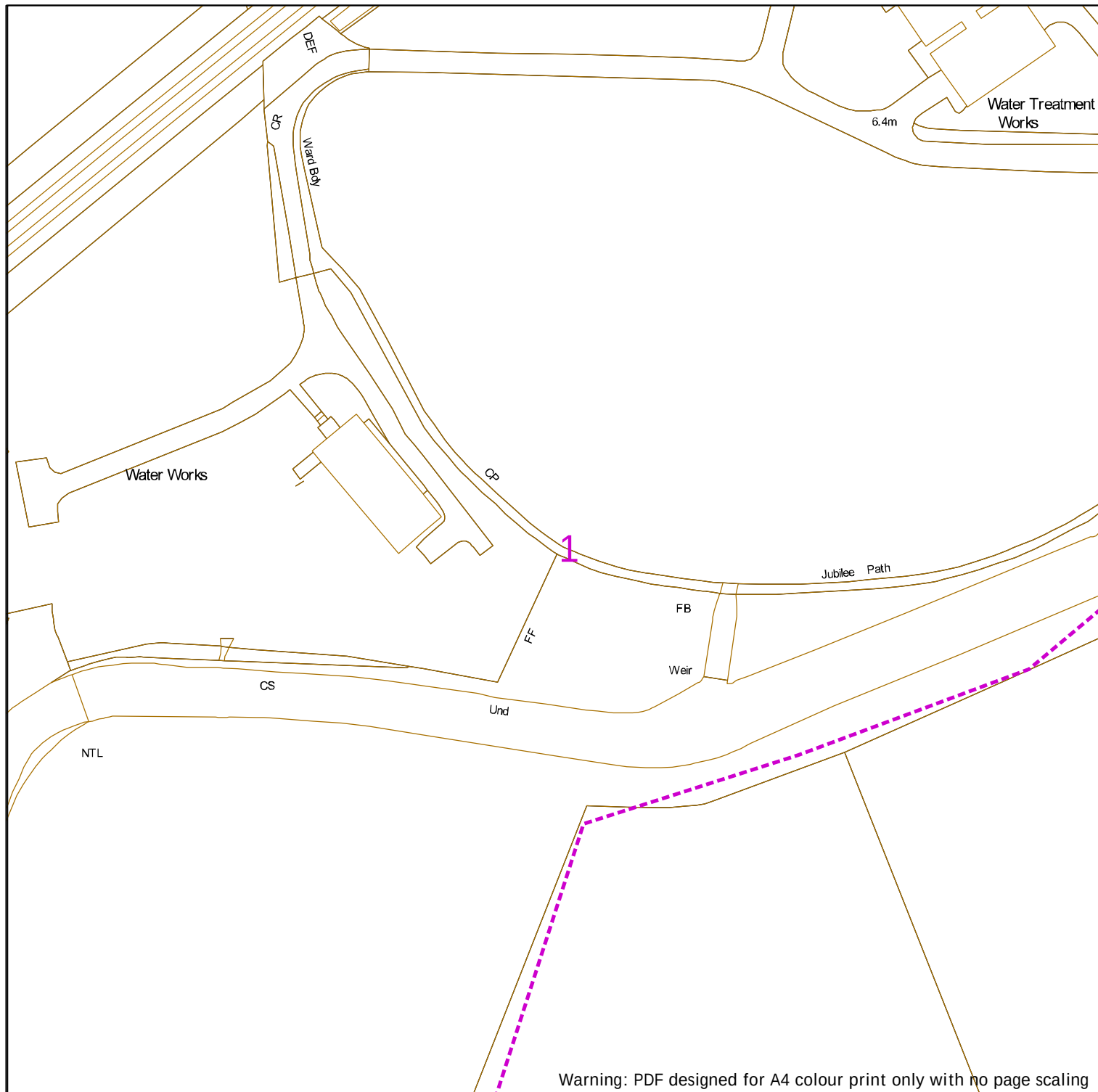


This plan shows the location of those pipes owned by Scotia Gas Networks (SGN) by virtue of being a licensed Gas Transporter (GT). Gas pipes owned by other GTs or third parties may also be present in this area but are not shown on this plan. Information with regard to such pipes should be obtained from 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.

Scale: 1:2050 (When plotted at A4)



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Low Pressure Mains

Medium Pressure Mains

Intermediate Pressure Mains

High Pressure Mains

Some Examples Of Plant Items

Valve 5

Syphon

Depth of Cover

≡

Digsite:

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Diameter Change

=

Material Change



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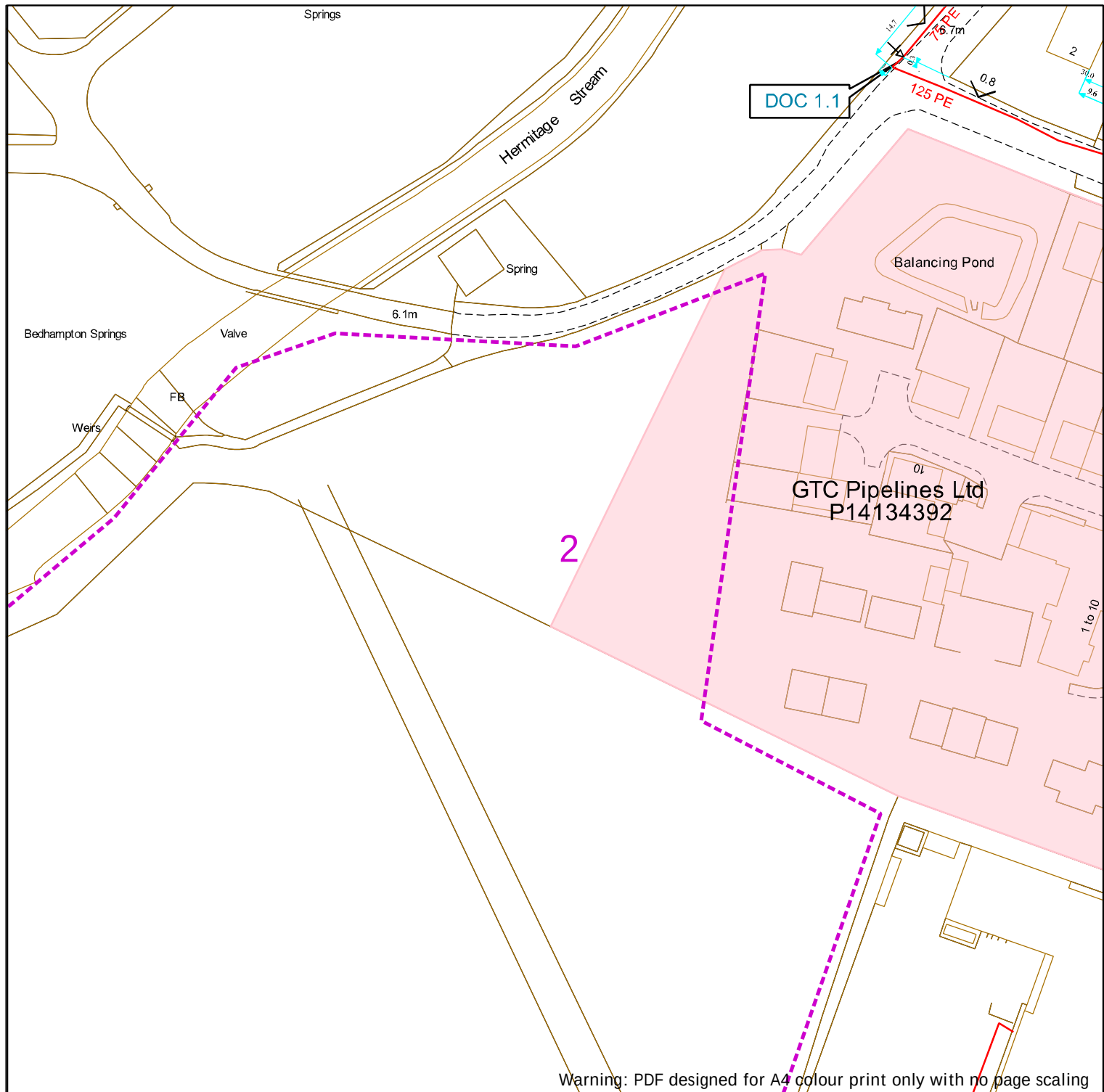


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Low Pressure Mains

Medium Pressure Mains

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High Pressure Mains

Some Examples Of Plant Items

Valve 5

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≡

Digsite:

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LAs

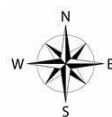
GTs

SSSIs

Diameter Change

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Material Change



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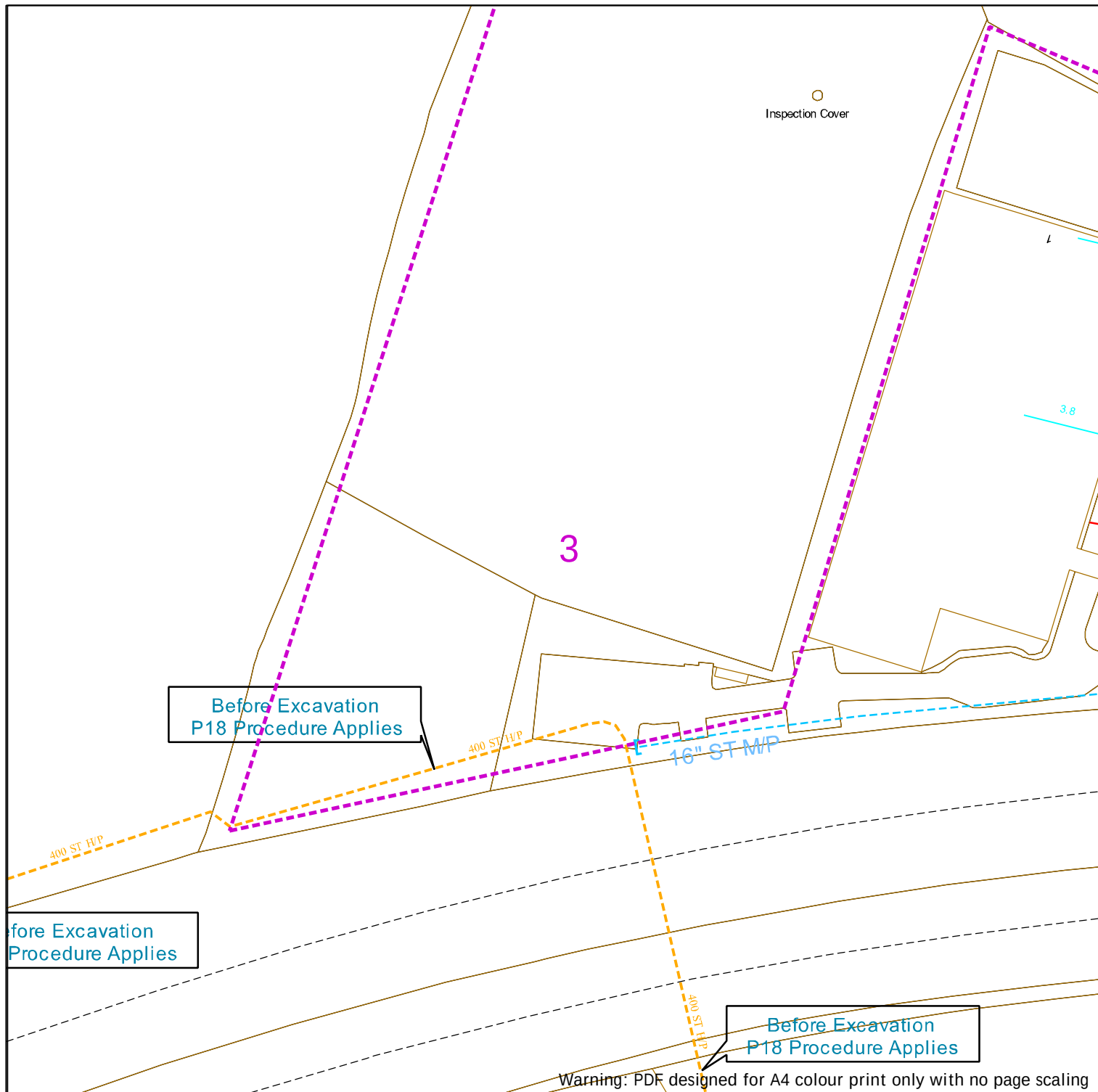


This plan shows the location of those pipes owned by Scotia Gas Networks (SGN) by virtue of being a licensed Gas Transporter (GT). Gas pipes owned by other GTs or third parties may also be present in this area but are not shown on this plan. Information with regard to such pipes should be obtained from 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

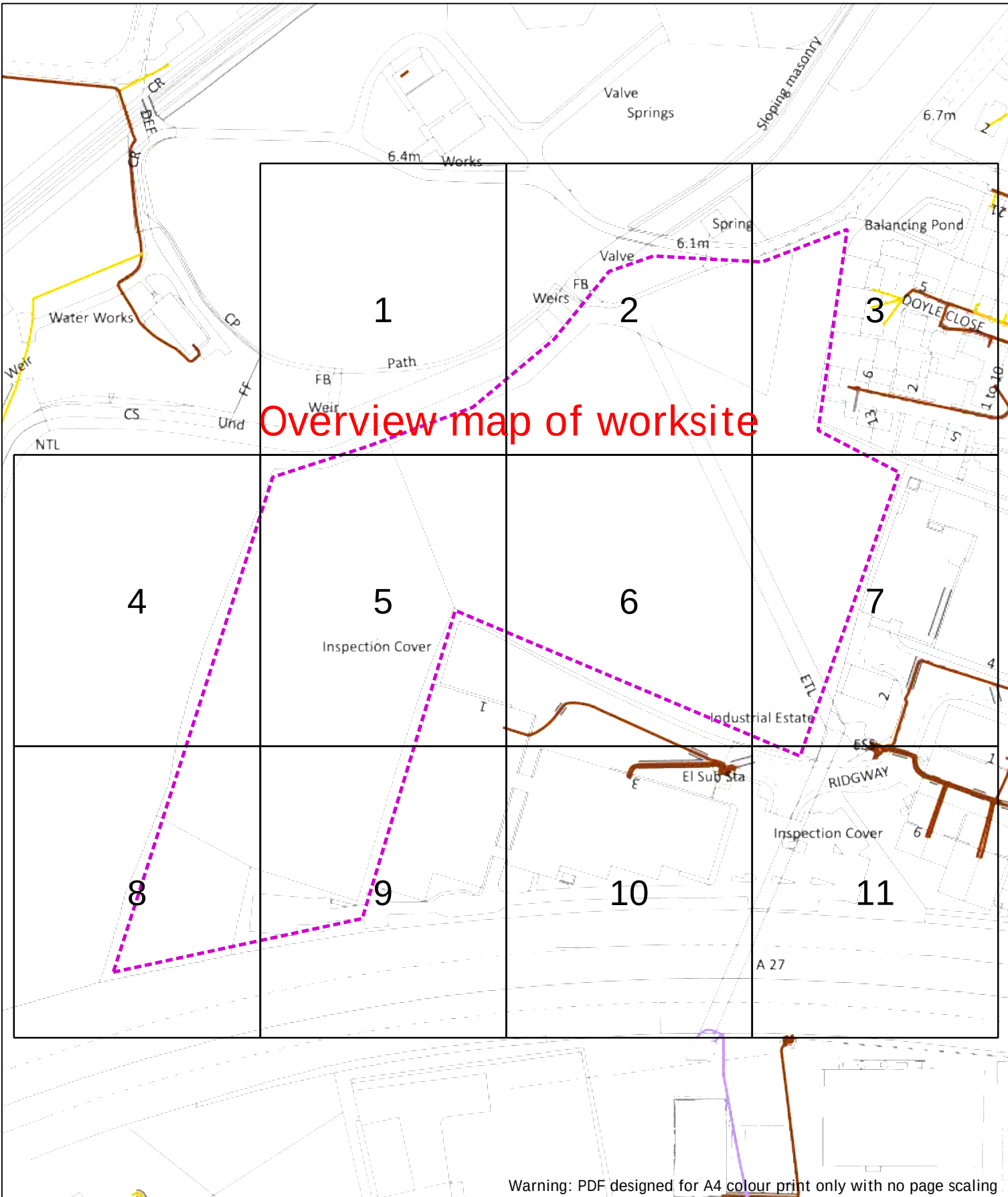
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Scale: 1:1000 (When plotted at A4)



 Contact Us SGN Safety Admin Team: 0800 912 1722 Email: plantlocation@sgn.co.uk	<table border="0"> <tr> <td>Low Pressure Mains</td> <td></td> <td>Digsite:</td> <td></td> <td>Area:</td> <td></td> </tr> <tr> <td>Medium Pressure Mains</td> <td></td> <td>Line:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Intermediate Pressure Mains</td> <td></td> <td>LAs</td> <td></td> <td></td> <td></td> </tr> <tr> <td>High Pressure Mains</td> <td></td> <td>GTs</td> <td></td> <td>SSSIs</td> <td></td> </tr> <tr> <td>Some Examples Of Plant Items</td> <td></td> <td>Diameter Change</td> <td></td> <td>Material Change</td> <td></td> </tr> <tr> <td>Valve</td> <td></td> <td>Depth of Cover</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Syphon</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	Low Pressure Mains		Digsite:		Area:		Medium Pressure Mains		Line:				Intermediate Pressure Mains		LAs				High Pressure Mains		GTs		SSSIs		Some Examples Of Plant Items		Diameter Change		Material Change		Valve		Depth of Cover				Syphon						 This information is given as a guide only and its accuracy cannot be guaranteed. 
Low Pressure Mains		Digsite:		Area:																																								
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Some Examples Of Plant Items		Diameter Change		Material Change																																								
Valve		Depth of Cover																																										
Syphon																																												
Date Requested: 01/03/2023 Job Reference: 28695858 Site Location: 470647 106185 Requested by: Mrs Alison McGuinness Your Scheme/Reference: L10313	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 HM Stationery Office. Crown Copyright Reserved. Southern Gas – 100044373 and Scotland Gas – 100044366.																																											

APPENDIX D: ELECTRICITY ASSET RECORDS AND COMMUNICATIONS



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Dig Sites Area: Line:



Date Requested: 01/03/2023
Job Reference: 28695858
Site Location: 470647 106185
Requested by: Mrs Alison McGuinness
Your Scheme/Reference: L10313

Voltages (V)	
LV (Low Voltage) and Services	Up to 1,000V
HV (High Voltage)	Over 1,000V to 11,000V
EHV (Extra High Voltage)	22,000V to 132,000V
Transmission	275,000V and 400,000V
NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID	
Services	LV HV EHV
Footpath/Unmade	0.45m 0.45m 0.6m 0.8m
Road Crossing	0.6m 0.6m 0.75m 0.9m
Agricultural	1m 1m 1m 1.1m

Legend	
—	Service Cable
—	LV Mains
—	6.6kV
—	11kV
—	22kV
—	33kV
—	66kV
—	132kV
—	275kV
—	400kV
—	Fibre Optic
—	Pilot Cable

Distribution Structures (Electric)	
●	Pole, Existing Location
●	Pole Structure, Existing Location - Single
●	Pole Structure, Existing Location - W
—	Duct Route
—	Cross Section Route

Southern Electric Power Distribution plc
Registered Office: No.1 Forbury Place
43 Forbury Road Reading RG1 3JH
Registered In England & Wales No.04094290

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General Enquiries: 0800 048 3516

Subject to revision – Master held by SSEN Asset Data Team:
Asset.Data@sse.com
01256 337 294

Scale: 1:2050 (When plotted at A4)

WARNING
There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work.
WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES G56 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

1

Path

FB

Weir

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0 20m Dig Sites Area: Line:

Date Requested: 01/03/2023
Job Reference: 28695858
Site Location: 470647 106185
Requested by: Mrs Alison McGuinness
Your Scheme/Reference: L10313

Voltages (V)				
LV (Low Voltage) and Services				
Up to 1,000V				
HV (High Voltage)				
Over 1,000V to 11,000V				
EHV (Extra High Voltage)				
22,000V to 132,000V				
Transmission				
275,000V and 400,000V				
NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
Services	LV	HV	EHV	
Footpath/Unmade	0.45m	0.45m	0.6m	0.8m
Road Crossing	0.6m	0.6m	0.75m	0.9m
Agricultural	1m	1m	1m	1.1m

Legend	
	Service Cable
	LV Mains
	6.6kV
	11kV
	22kV
	33kV
	66kV
	132kV
	275kV
	400kV
	Fibre Optic
	Pilot Cable

Distribution Structures (Electric)	
	Pole, Existing Location
	Pole Structure, Existing Location - Single
	Pole Structure, Existing Location - W
	Duct Route
	Cross Section Route



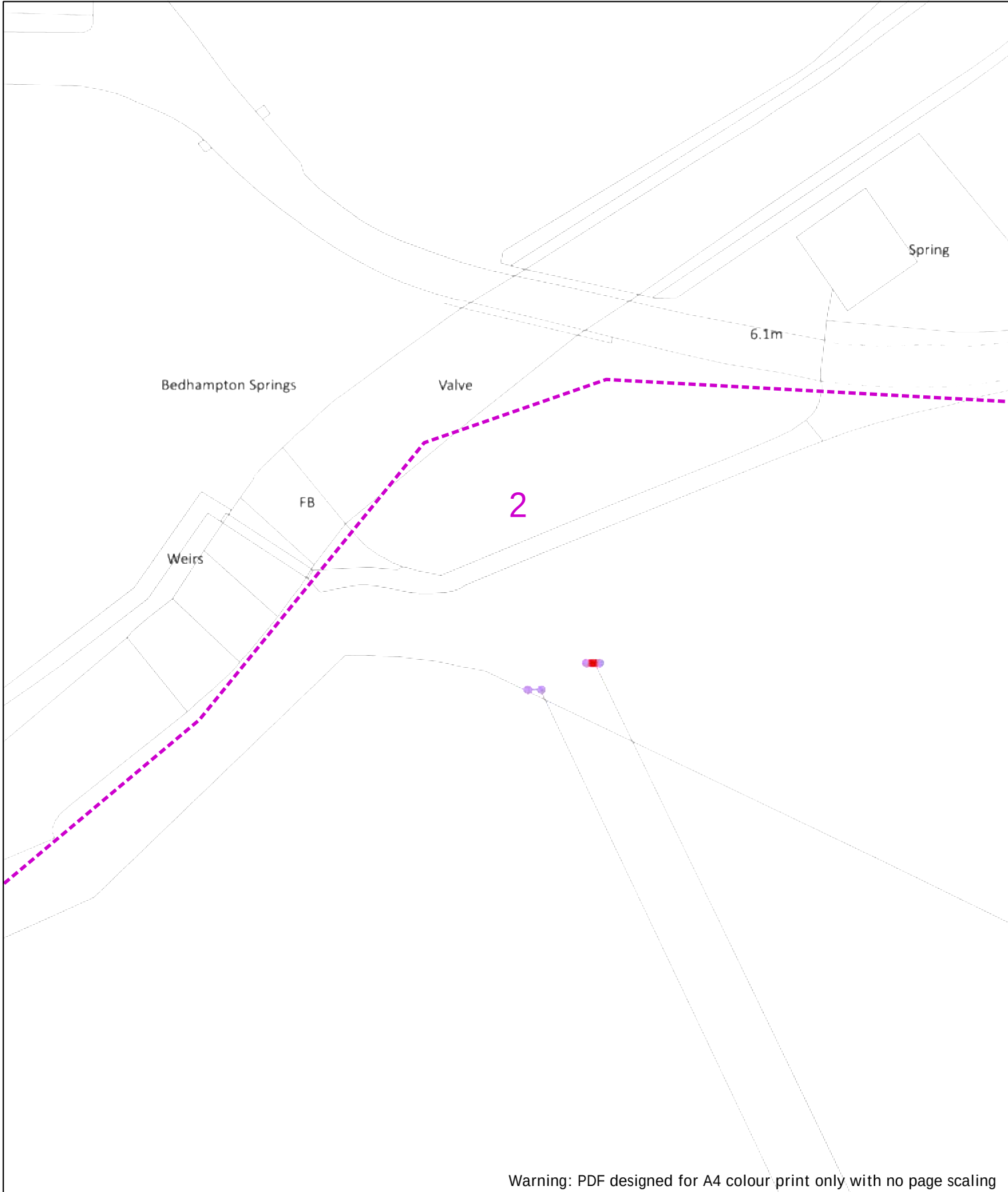
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020m

Dig Sites

Area:

Line:

Date Requested: 01/03/2023

Job Reference: 28695858

Site Location: 470647 106185

Requested by: Mrs Alison McGuinness

Your Scheme/Reference: L10313

Voltages (V)				
LV (Low Voltage) and Services	Up to 1,000V			
HV (High Voltage)	Over 1,000V to 11,000V			
EHV (Extra High Voltage)	22,000V to 132,000V			
Transmission	275,000V and 400,000V			
NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
Services	LV	HV	EHV	
Footpath/Unmade	0.45m	0.45m	0.6m	0.8m
Road Crossing	0.6m	0.6m	0.75m	0.9m
Agricultural	1m	1m	1m	1.1m

Legend

Service Cable

LV Mains

2 - 3.3kV

6.6kV

11kV

22kV

33kV

66kV

132kV

275kV

400kV

Fibre Optic

Pilot Cable

Pole, Existing Location

Pole Structure, Existing Location - Single

Pole Structure, Existing Location - W

Duct Route

Cross Section Route

WARNING

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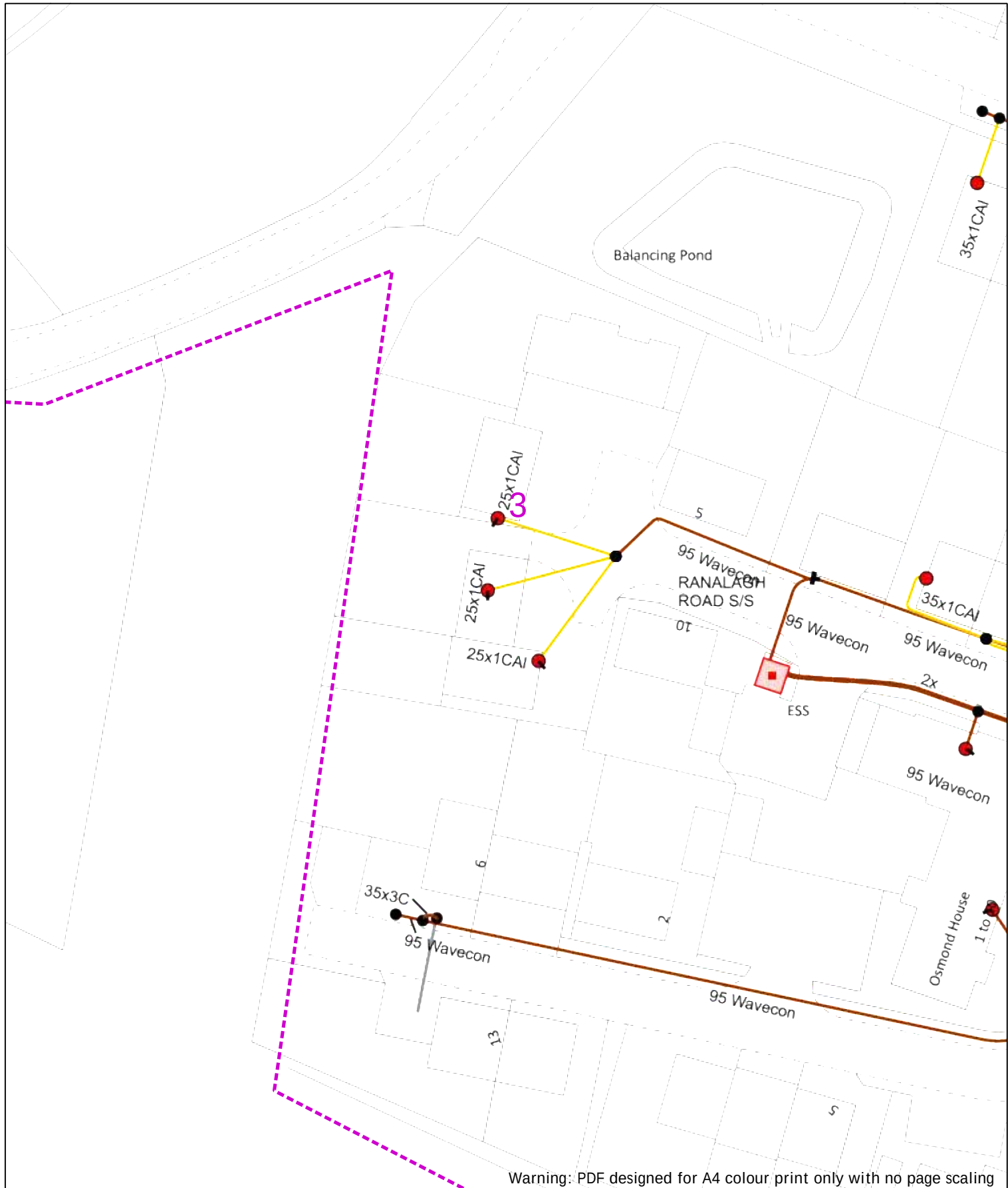
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Scale: 1:500 (When plotted at A4)

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0 20m

Dig Sites Area: Line:

Date Requested: 01/03/2023
 Job Reference: 28695858
 Site Location: 470647 106185
 Requested by: Mrs Alison McGuinness
 Your Scheme/Reference: L10313

Voltages (V)				
LV (Low Voltage) and Services	Up to 1,000V			
HV (High Voltage)	Over 1,000V to 11,000V			
EHV (Extra High Voltage)	22,000V to 132,000V			
Transmission	275,000V and 400,000V			
NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
Services	LV	HV	EHV	
Footpath/Unmade	0.45m	0.45m	0.6m	0.8m
Road Crossing	0.6m	0.6m	0.75m	0.9m
Agricultural	1m	1m	1m	1.1m

Legend

- Service Cable
- LV Mains
- 2-3.3kV
- 6.6kV
- 11kV
- 22kV
- 33kV
- 66kV
- 132kV
- 275kV
- 400kV
- Fibre Optic
- Pilot Cable

Distribution Structures (Electric)

- Pole, Existing Location
- Pole Structure, Existing Location - Single
- Pole Structure, Existing Location - W
- Duct Route
- Cross Section Route

WARNING

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4

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Job Reference: 28695858
Site Location: 470647 106185
Requested by: Mrs Alison McGuinness
Your Scheme/Reference: L10313

Voltages (V)				
LV (Low Voltage) and Services				
Up to 1,000V				
HV (High Voltage)				
Over 1,000V to 11,000V				
EHV (Extra High Voltage)				
22,000V to 132,000V				
Transmission				
275,000V and 400,000V				
NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
Services				
LV HV EHV				
Footpath/Unmade 0.45m 0.45m 0.5m 0.8m				
Road Crossing 0.6m 0.6m 0.75m 0.9m				
Agricultural 1m 1m 1m 1.1m				

Legend	
	Service Cable
	LV Mains
	2-3.3kV
	6.6kV
	11kV
	22kV
	33kV
	66kV
	132kV
	275kV
	400kV
	Fibre Optic
	Pilot Cable

Distribution Structures (Electric)	
	Pole, Existing Location
	Pole Structure, Existing Location - Single
	Pole Structure, Existing Location - W
	Duct Route
	Cross Section Route



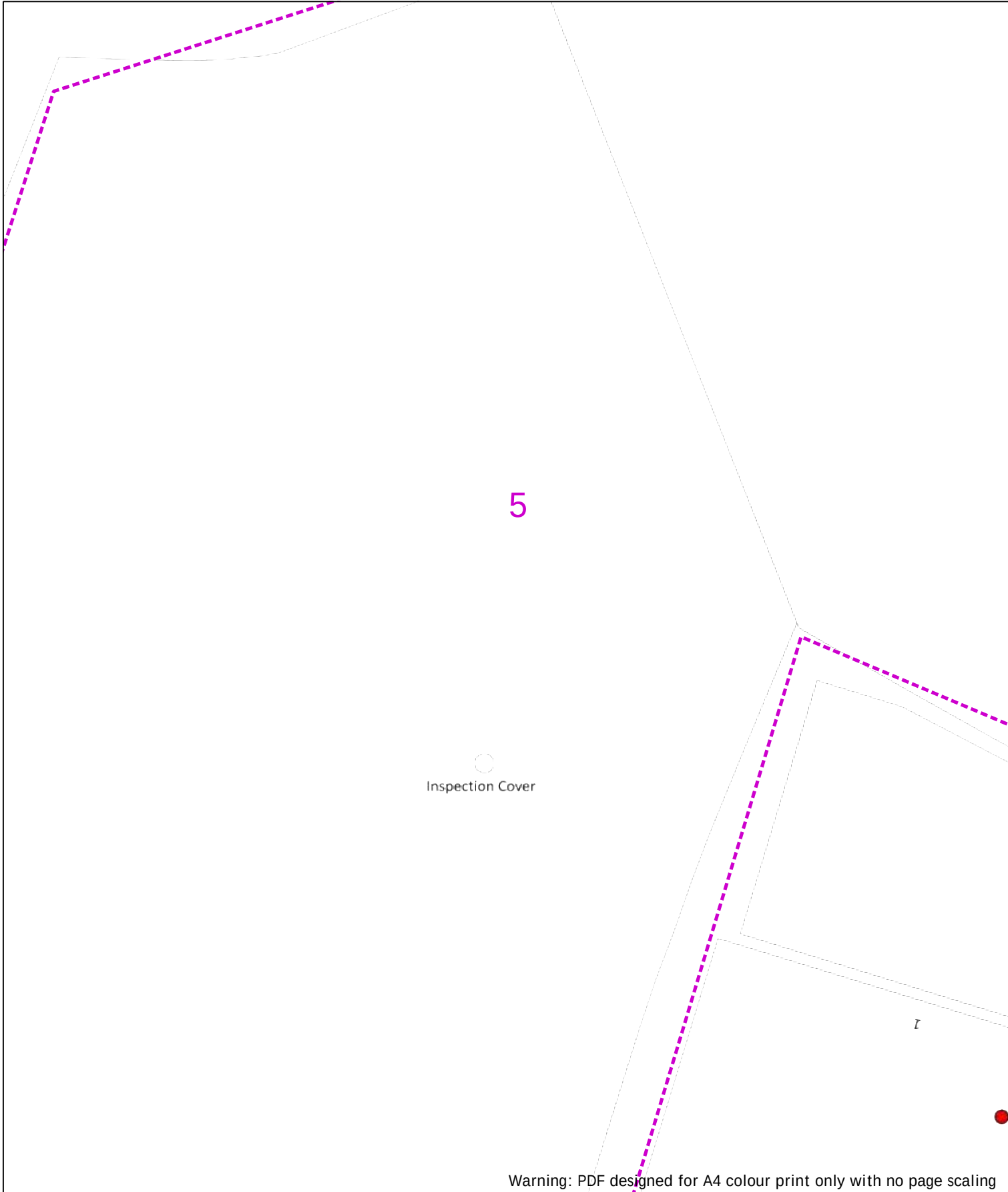
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20m

Dig Sites

Area:

Line:

Date Requested: 01/03/2023

Job Reference: 28695858

Site Location: 470647 106185

Requested by: Mrs Alison McGuinness

Your Scheme/Reference: L10313

Voltages (V)				
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Transmission	275,000V and 400,000V			
NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
Services	LV	HV	EHV	
Footpath/Unmade	0.45m	0.45m	0.6m	0.8m
Road Crossing	0.6m	0.6m	0.75m	0.9m
Agricultural	1m	1m	1m	1.1m

Legend

Service Cable

LV Mains

2 - 3.3kV

6.6kV

11kV

22kV

33kV

66kV

132kV

275kV

400kV

Fibre Optic

Pilot Cable

Pole, Existing Location

Pole Structure, Existing Location - Single

Pole Structure, Existing Location - W

Duct Route

Cross Section Route

WARNING

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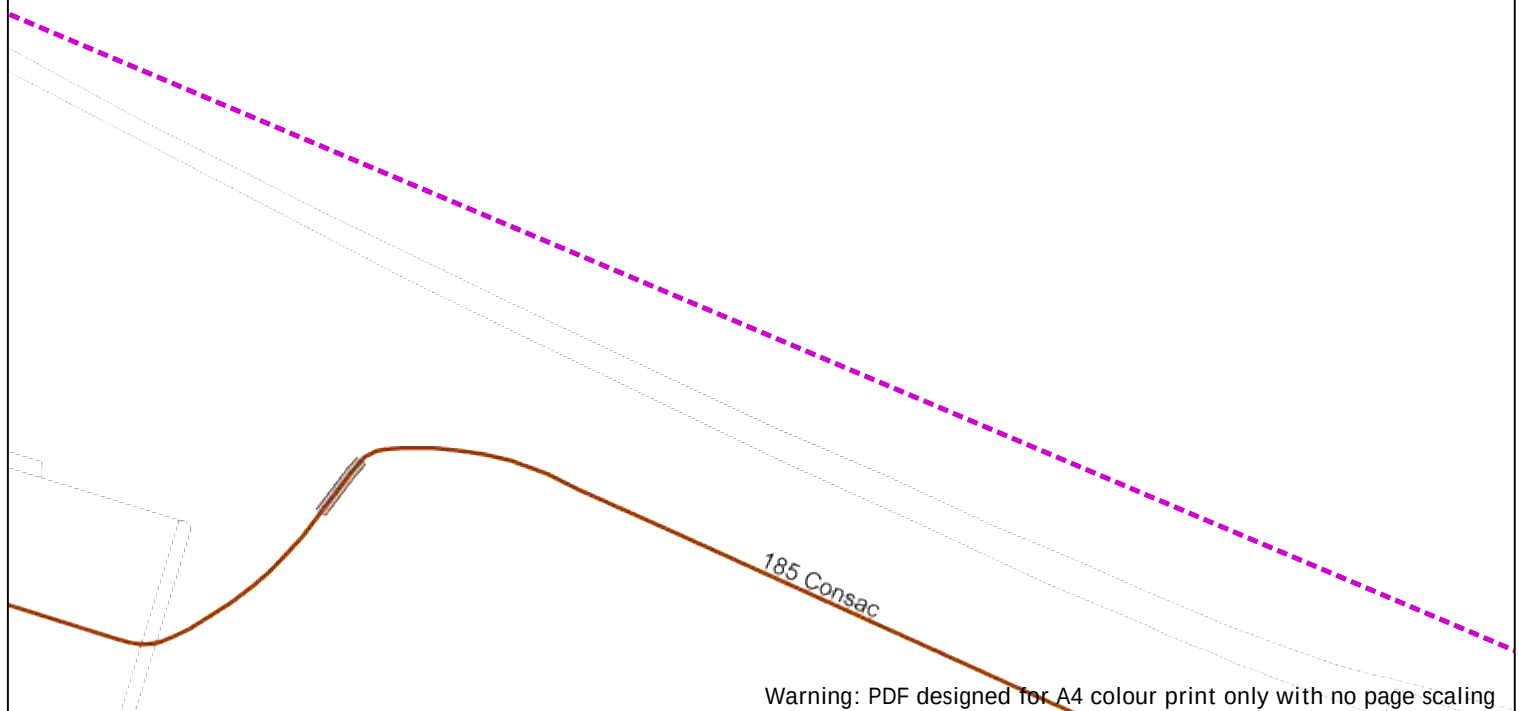
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Date Requested: 01/03/2023
Job Reference: 28695858
Site Location: 470647 106185
Requested by: Mrs Alison McGuinness
Your Scheme/Reference: L10313

Voltages (V)				
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Road Crossing	0.6m	0.6m	0.75m	0.9m
Agricultural	1m	1m	1m	1.1m

Legend	
Service Cable	
LV Mains	
2 - 3.3kV	
6.6kV	
11kV	
22kV	
33kV	
66kV	
132kV	
275kV	
400kV	
Fibre Optic	
Pilot Cable	

Distribution Structures (Electric)	
Pole, Existing Location	
Pole Structure, Existing Location - Single	
Pole Structure, Existing Location - W	
Duct Route	
Cross Section Route	



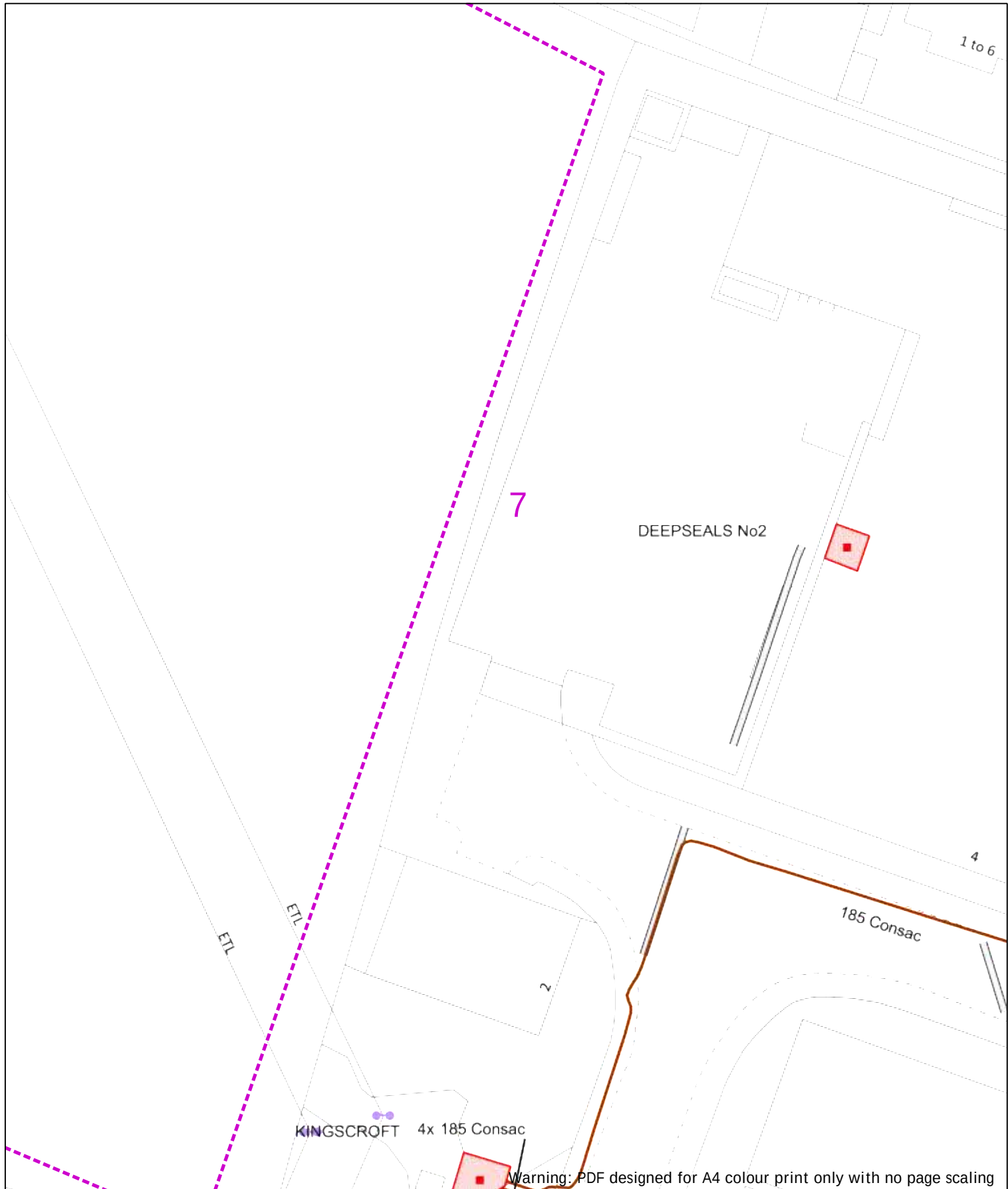
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020m

Dig Sites

Area:

Line:

Date Requested: 01/03/2023

Job Reference: 28695858

Site Location: 470647 106185

Requested by: Mrs Alison McGuinness

Your Scheme/Reference: L10313

Voltages (V)				
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Legend

Service Cable

LV Mains

6.6kV

11kV

22kV

33kV

66kV

132kV

275kV

400kV

Fibre Optic

Pilot Cable

Distribution Structures (Electric)

Pole, Existing Location

Pole Structure, Existing Location - Single

Pole Structure, Existing Location - W

Duct Route

Cross Section Route

WARNING

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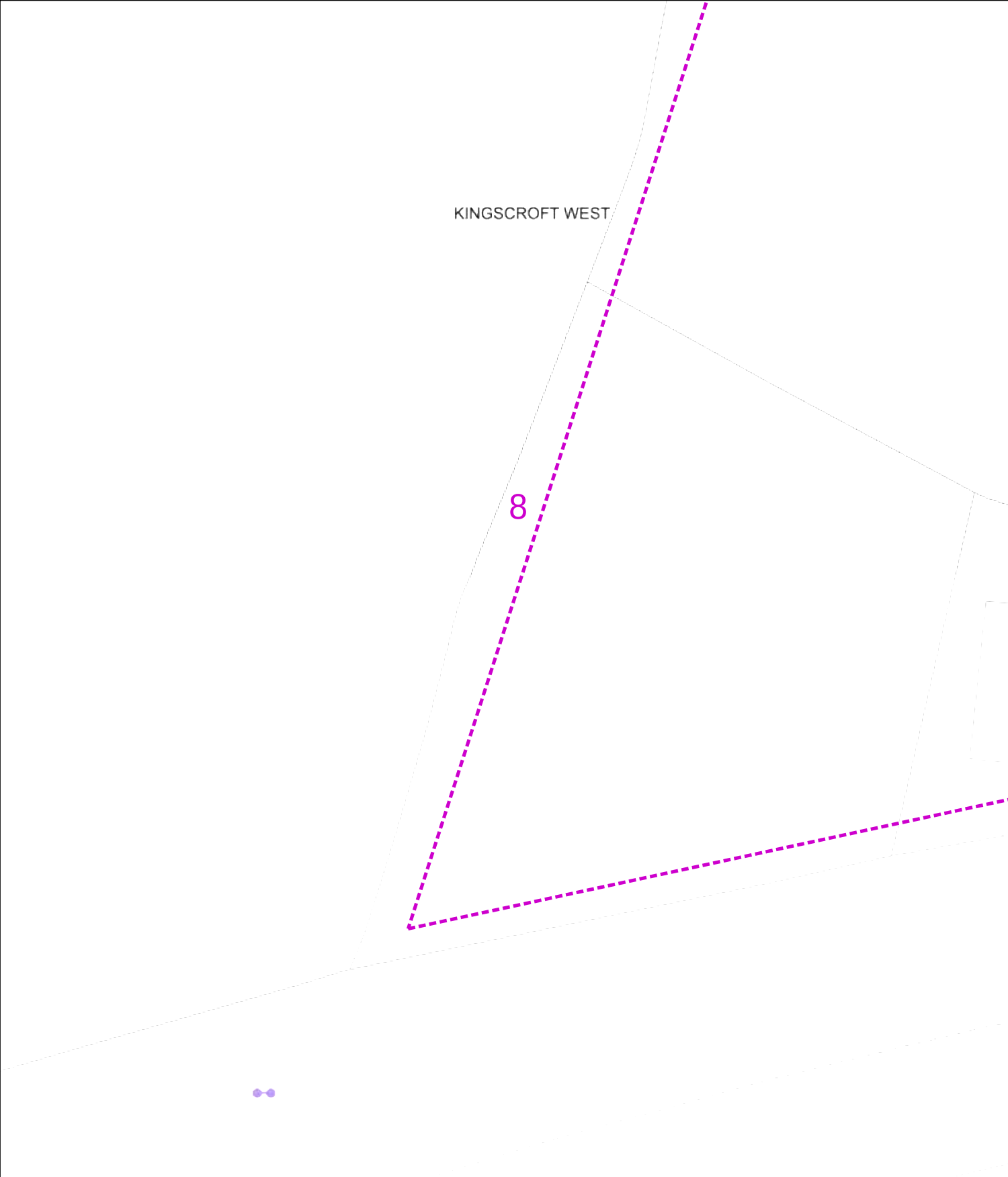
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0

20m

Dig Sites Area: Line:

Date Requested: 01/03/2023

Job Reference: 28695858

Site Location: 470647 106185

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NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
Services	LV	HV	EHV	
Footpath/Unmade	0.45m	0.45m	0.6m	0.8m
Road Crossing	0.6m	0.6m	0.75m	0.9m
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Legend

Service Cable

LV Mains

6.6kV

11kV

22kV

33kV

66kV

132kV

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Distribution Structures (Electric)

Pole, Existing Location

Pole Structure, Existing Location - Single

Pole Structure, Existing Location - W

Duct Route

Cross Section Route

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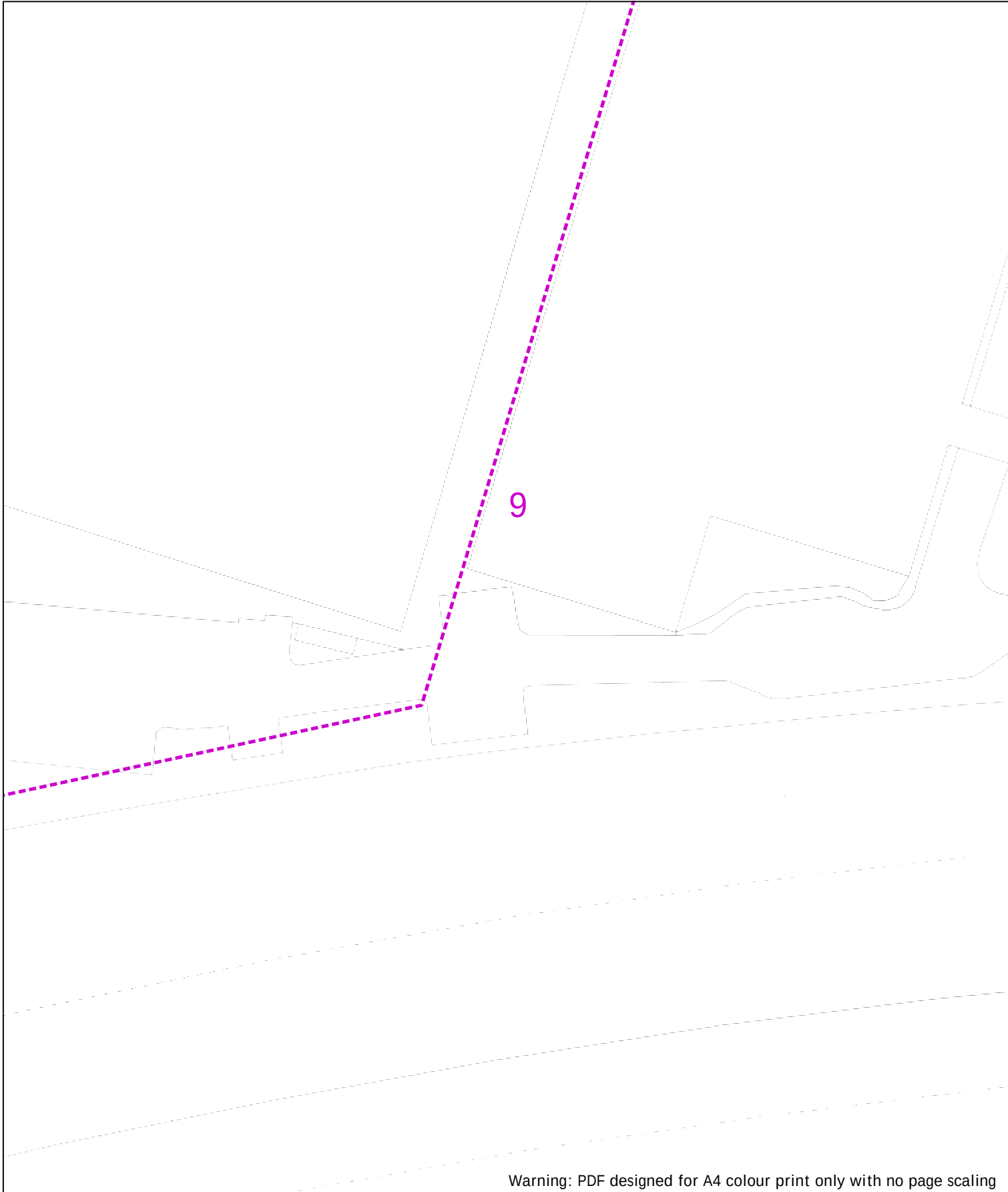
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020m

Dig Sites

Area: 

Line: 

Date Requested: 01/03/2023

Job Reference: 28695858

Site Location: 470647 106185

Requested by: Mrs Alison McGuinness

Your Scheme/Reference: L10313

Voltages (V)				
LV (Low Voltage) and Services	Up to 1,000V			
HV (High Voltage)	Over 1,000V to 11,000V			
EHV (Extra High Voltage)	22,000V to 132,000V			
Transmission	275,000V and 400,000V			
NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
Services	LV	HV	EHV	
Footpath/Unmade	0.45m	0.45m	0.6m	0.8m
Road Crossing	0.6m	0.6m	0.75m	0.9m
Agricultural	1m	1m	1m	1.1m

Legend

 Service Cable

 LV Mains

 2 - 3.3kV

 6.6kV

 11kV

 22kV

 33kV

 66kV

 132kV

 275kV

 400kV

 Fibre Optic

 Pilot Cable

Distribution Structures (Electric)

 Pole, Existing Location

 Pole Structure, Existing Location - Single

 Pole Structure, Existing Location - W

 Duct Route

 Cross Section Route

WARNING

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WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES G56 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)





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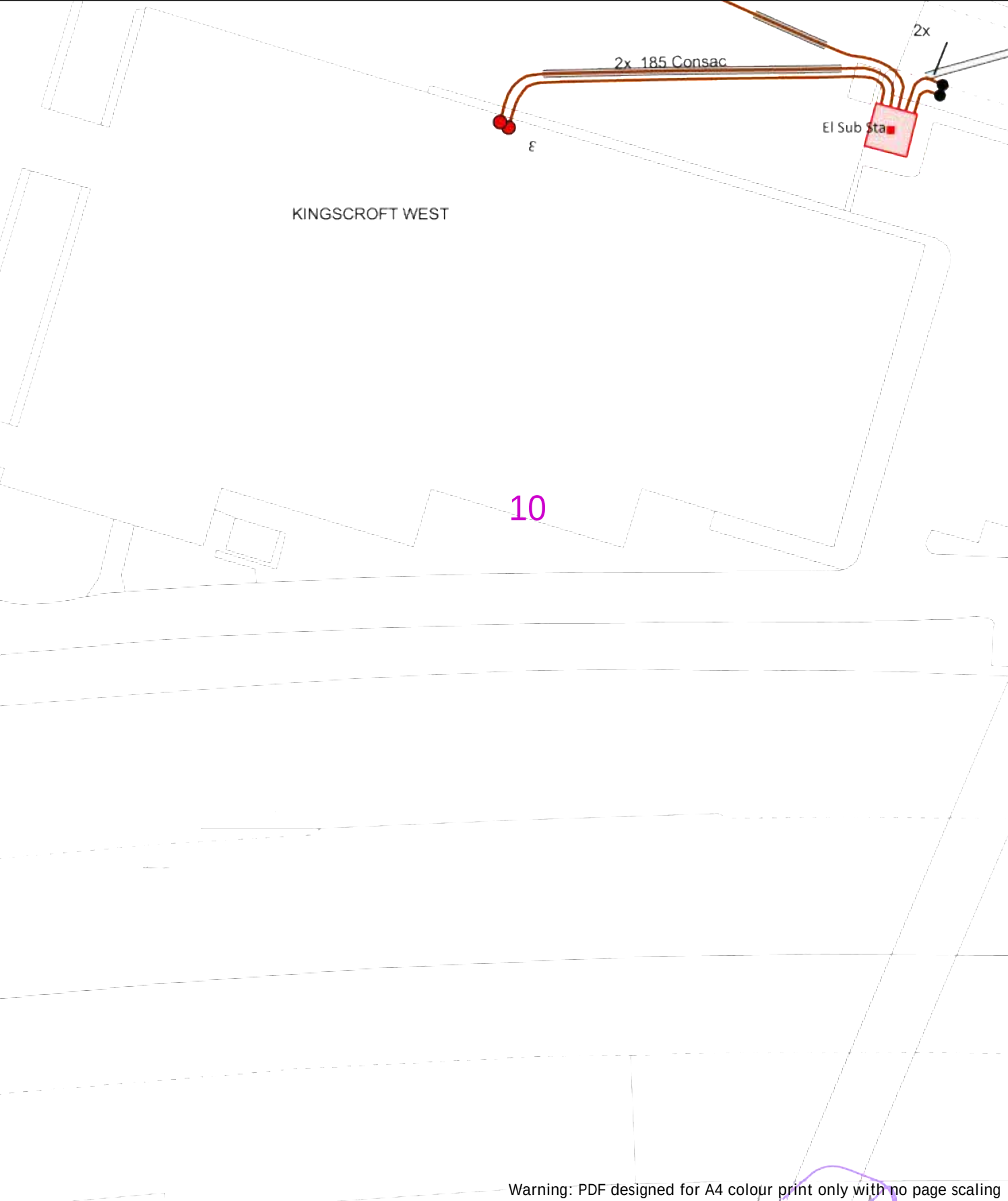
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Dig Sites

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Line:

Date Requested: 01/03/2023

Job Reference: 28695858

Site Location: 470647 106185

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Your Scheme/Reference: L10313

Voltages (V)				
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HV (High Voltage)	Over 1,000V to 11,000V			
EHV (Extra High Voltage)	22,000V to 132,000V			
Transmission	275,000V and 400,000V			
NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
Services	LV	HV	EHV	
Footpath/Unmade	0.45m	0.45m	0.5m	0.8m
Road Crossing	0.6m	0.6m	0.75m	0.9m
Agricultural	1m	1m	1m	1.1m

Legend

Service Cable

LV Mains

6.6kV

11kV

22kV

33kV

66kV

132kV

275kV

400kV

Fibre Optic

Pilot Cable

Pole, Existing Location

Pole Structure, Existing Location - Single

Pole Structure, Existing Location - W

Duct Route

Cross Section Route

WARNING

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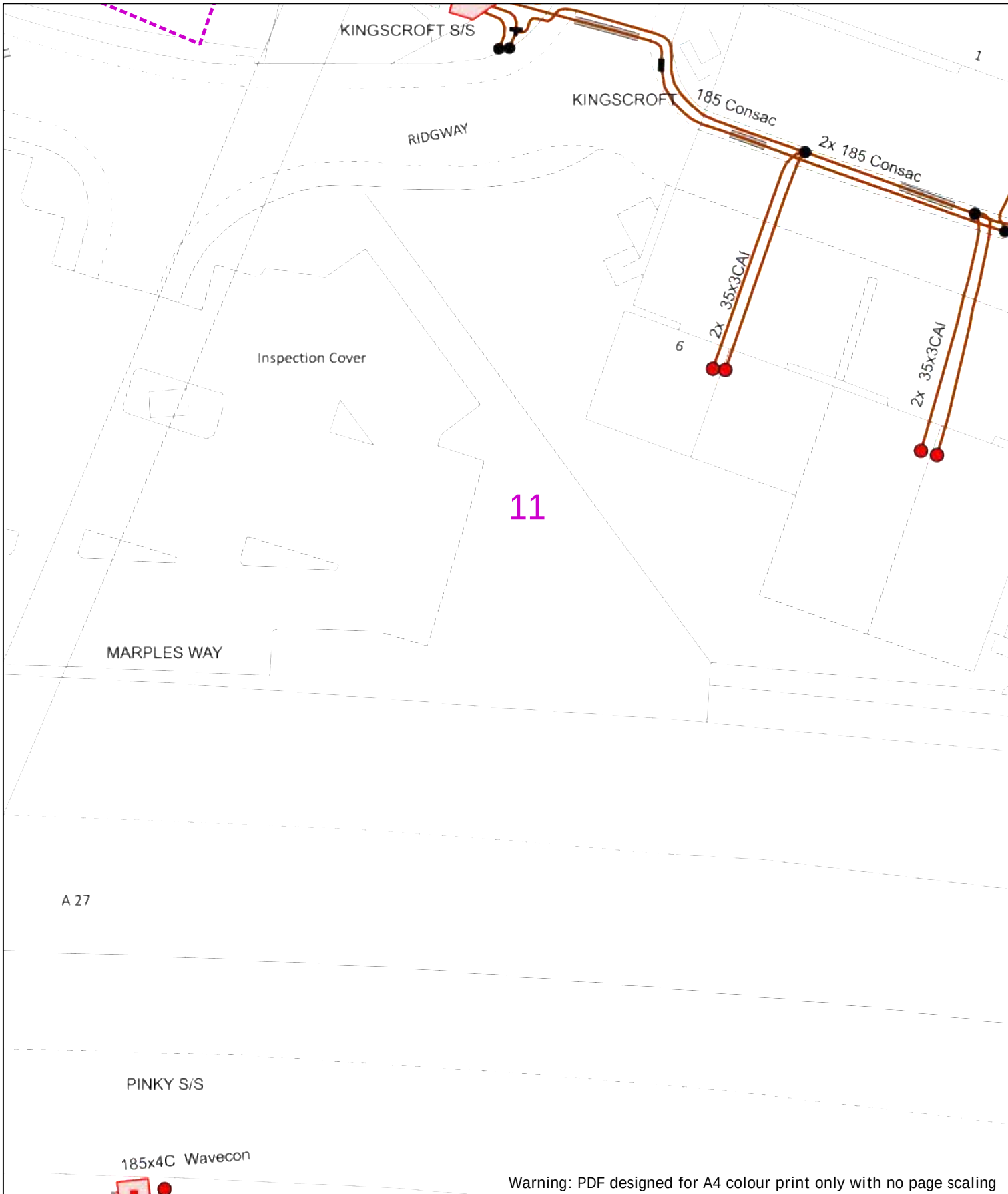
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Site Location: 470647 106185

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HV (High Voltage)	Over 1,000V to 11,000V			
EHV (Extra High Voltage)	22,000V to 132,000V			
Transmission	275,000V and 400,000V			
NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
Services	LV	HV	EHV	
Footpath/Unmade	0.45m	0.45m	0.6m	0.8m
Road Crossing	0.6m	0.6m	0.75m	0.9m
Agricultural	1m	1m	1m	1.1m

Legend

Service Cable

LV Mains

6.6kV

11kV

22kV

33kV

66kV

132kV

275kV

400kV

Fibre Optic

Pilot Cable

Distribution Structures (Electric)

Pole, Existing Location

Pole Structure, Existing Location - Single

Pole Structure, Existing Location - W

Duct Route

Cross Section Route

WARNING

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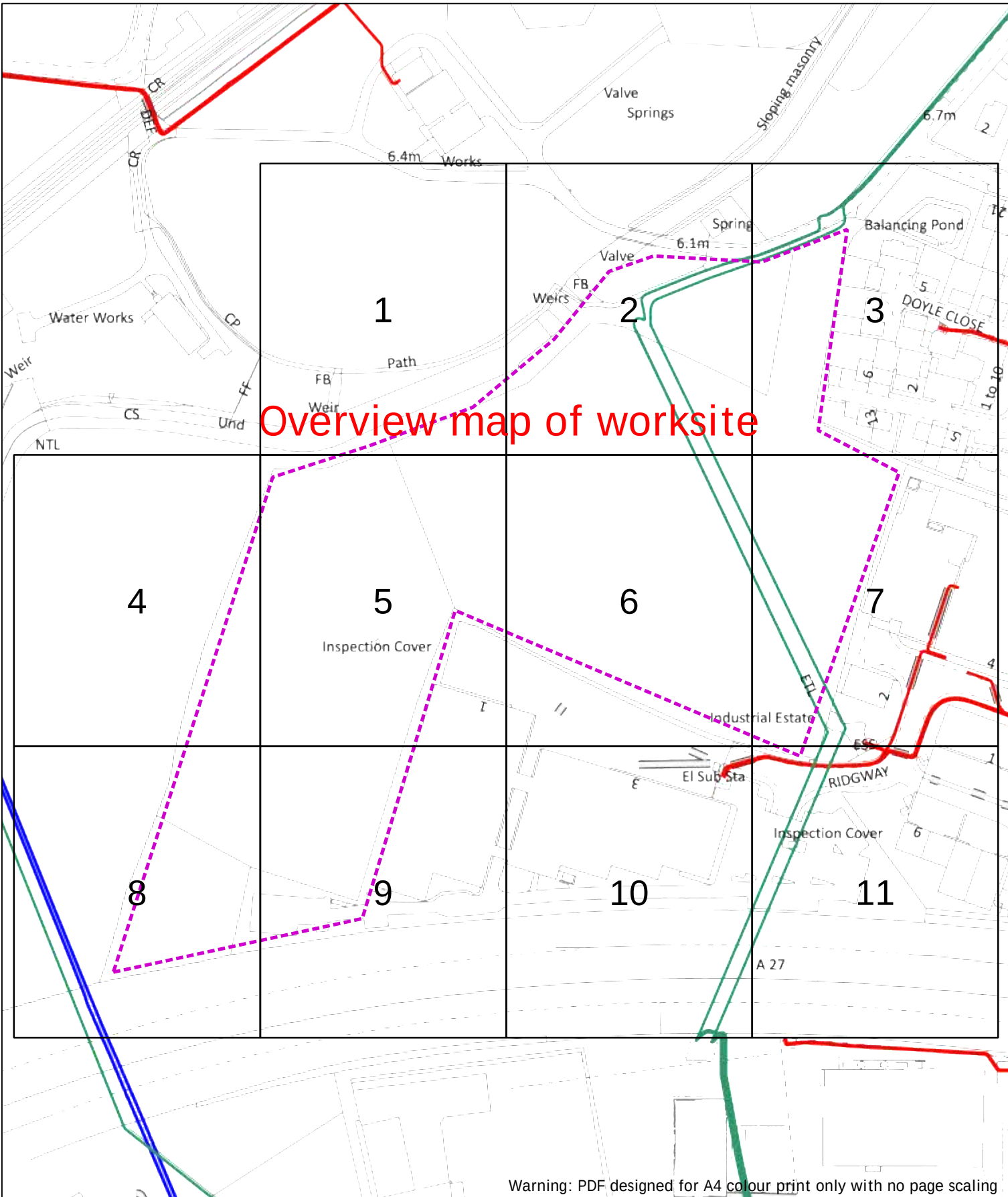
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Dig Sites

Area:

Line:

Extra High Voltage
cables in vicinity

Date Requested: 01/03/2023

Job Reference: 28695858

Site Location: 470647 106185

Requested by: Mrs Alison McGuinness

Your Scheme/Reference: L10313

	Voltages (V)			
	Up to 1,000V	Over 1,000V to 11,000V	Over 11,000V to 132,000V	Over 132,000V to 400,000V
LV (Low Voltage) and Services	Up to 1,000V	Over 1,000V to 11,000V	Over 11,000V to 132,000V	Over 132,000V to 400,000V
HV (High Voltage)	Up to 1,000V	Over 1,000V to 11,000V	Over 11,000V to 132,000V	Over 132,000V to 400,000V
EHV (Extra High Voltage)	Up to 1,000V	Over 1,000V to 11,000V	Over 11,000V to 132,000V	Over 132,000V to 400,000V
Transmission	Up to 1,000V	Over 1,000V to 11,000V	Over 11,000V to 132,000V	Over 132,000V to 400,000V
NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
Services	LV	HV	EHV	
Footpath/Unmade	0.45m	0.45m	0.6m	0.8m
Road Crossing	0.6m	0.6m	0.75m	0.9m
Agricultural	1m	1m	1m	1.1m

Legend

Service Cable

LV Mains

2 - 33kV

66kV

11kV

22kV

33kV

66kV

132kV

275kV

400kV

Fibre Optic

Pilot Cable

Distribution Structures (Electric)

Pole, Existing Location

Pole Structure, Existing Location - Single

Pole Structure, Existing Location - H

Duct Route

Cross Section Route

WARNING

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Path

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0 20m Dig Sites Area: Line:

Extra High Voltage
cables in vicinity



Date Requested: 01/03/2023
Job Reference: 28695858
Site Location: 470647 106185
Requested by: Mrs Alison McGuinness
Your Scheme/Reference: L10313

Voltages (V)				
LV (Low Voltage) and Services		Up to 1,000V		
HV (High Voltage)		Over 1,000V to 11,000V		
EHV (Extra High Voltage)		22,000V to 132,000V		
Transmission		275,000V and 400,000V		
NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
	Services	LV	HV	EHV
Footpath/Unmade	0.45m	0.45m	0.6m	0.8m
Road Crossing	0.6m	0.6m	0.75m	0.9m
Agricultural	1m	1m	1m	1.1m

Legend	
	Service Cable
	LV Mains
	2 - 33kV
	66kV
	11kV
	22kV
	33kV
	66kV
	132kV
	275kV
	400kV
	Fibre Optic
	Pilot Cable

Distribution Structures (Electric)	
	Pole, Existing Location
	Pole Structure, Existing Location - Single
	Pole Structure, Existing Location - H
	Duct Route
	Cross Section Route

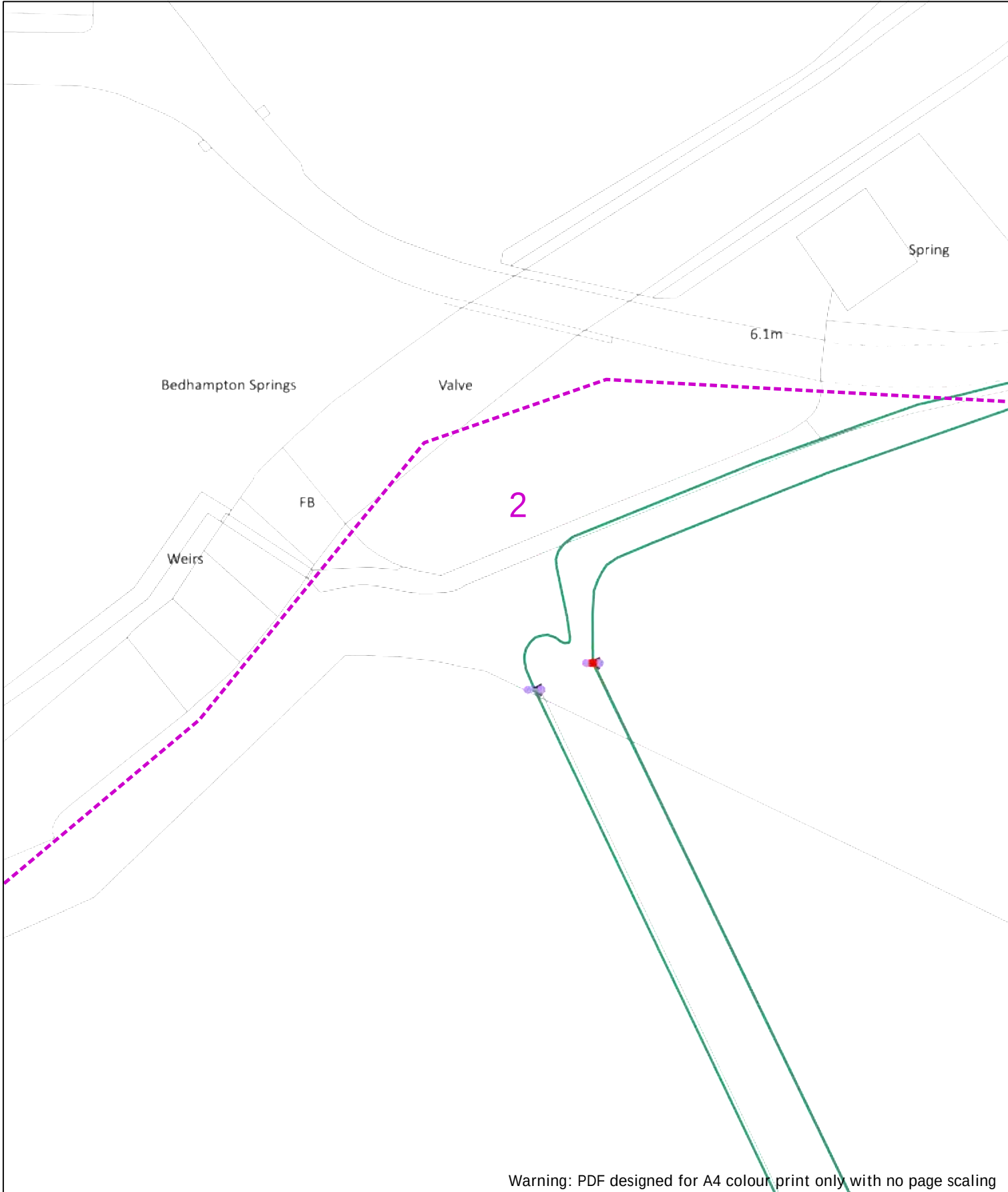
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0

20m

Dig Sites

Area:

Line:

Extra High Voltage
cables in vicinity

Date Requested: 01/03/2023

Job Reference: 28695858

Site Location: 470647 106185

Requested by: Mrs Alison McGuinness

Your Scheme/Reference: L10313

Voltages (V)				
LV (Low Voltage) and Services	Up to 1,000V			
HV (High Voltage)	Over 1,000V to 11,000V			
EHV (Extra High Voltage)	22,000V to 132,000V			
Transmission	275,000V and 400,000V			
NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
Services	LV	HV	EHV	
Footpath/Unmade	0.45m	0.45m	0.6m	0.8m
Road Crossing	0.6m	0.6m	0.75m	0.9m
Agricultural	1m	1m	1m	1.1m

Legend

Service Cable

LV Mains

2 - 33kV

66kV

11kV

22kV

33kV

66kV

132kV

275kV

400kV

Fibre Optic

Pilot Cable

Distribution Structures (Electric)

Pole, Existing Location

Pole Structure, Existing Location - Single

Pole Structure, Existing Location - H

Duct Route

Cross Section Route

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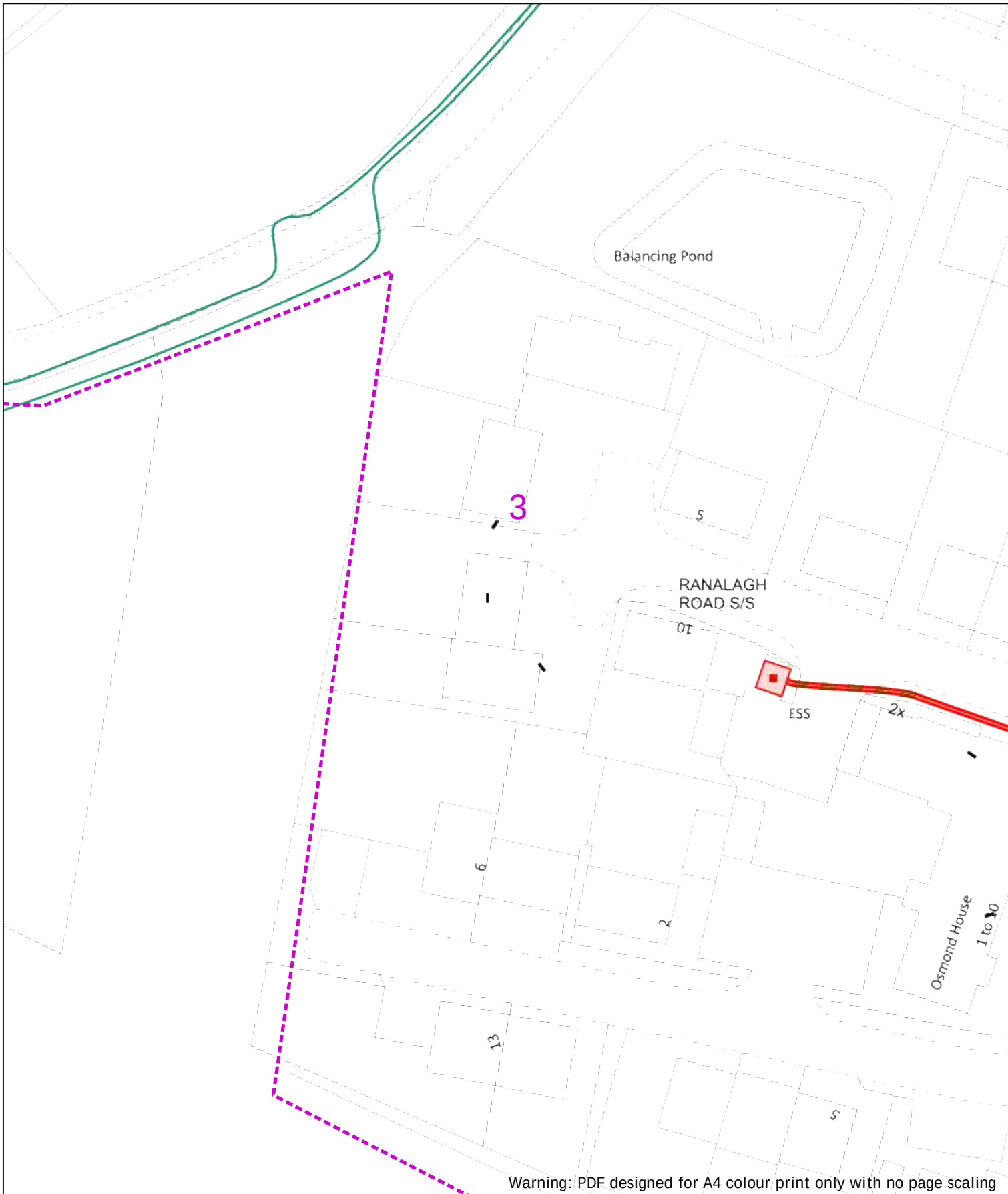
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Dig Sites

Area:

Line:

Extra High Voltage

cables in vicinity

Date Requested: 01/03/2023

Job Reference: 28695858

Site Location: 470647 106185

Requested by: Mrs Alison McGuinness

Your Scheme/Reference: L10313

Voltages (V)

LV (Low Voltage) and Services Up to 1,000V

HV (High Voltage) Over 1,000V to 11,000V

EHV (Extra High Voltage) 22,000V to 132,000V

Transmission 275,000V and 400,000V

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID

Services LV HV EHV

Footpath/Unmade 0.45m 0.45m 0.6m 0.8m

Road Crossing 0.6m 0.6m 0.75m 0.9m

Agricultural 1m 1m 1m 1.1m

Legend

Service Cable

LV Mains

2 - 33kV

66kV

11kV

22kV

33kV

66kV

132kV

275kV

400kV

Fibre Optic

Pilot Cable

Distribution Structures (Electric)

Pole, Existing Location

Pole Structure, Existing Location - Single

Pole Structure, Existing Location - H

Duct Route

Cross Section Route

WARNING

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0 20m Dig Sites Area: Line:

Extra High Voltage
cables in vicinity



Date Requested: 01/03/2023
Job Reference: 28695858
Site Location: 470647 106185
Requested by: Mrs Alison McGuinness
Your Scheme/Reference: L10313

Voltages (V)				
LV (Low Voltage) and Services				
Up to 1,000V				
HV (High Voltage)				
Over 1,000V to 11,000V				
EHV (Extra High Voltage)				
22,000V to 132,000V				
Transmission				
275,000V and 400,000V				
NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
Services				
	LV	HV	EHV	
Footpath/Unmade	0.45m	0.45m	0.5m	0.8m
Road Crossing	0.6m	0.6m	0.75m	0.9m
Agricultural	1m	1m	1m	1.1m

Legend	
	Service Cable
	LV Mains
	2 - 33kV
	66kV
	11kV
	22kV
	33kV
	66kV
	132kV
	275kV
	400kV
	Fibre Optic
	Pilot Cable

Distribution Structures (Electric)	
	Pole, Existing Location
	Pole Structure, Existing Location - Single
	Pole Structure, Existing Location - H
	Duct Route
	Cross Section Route

WARNING

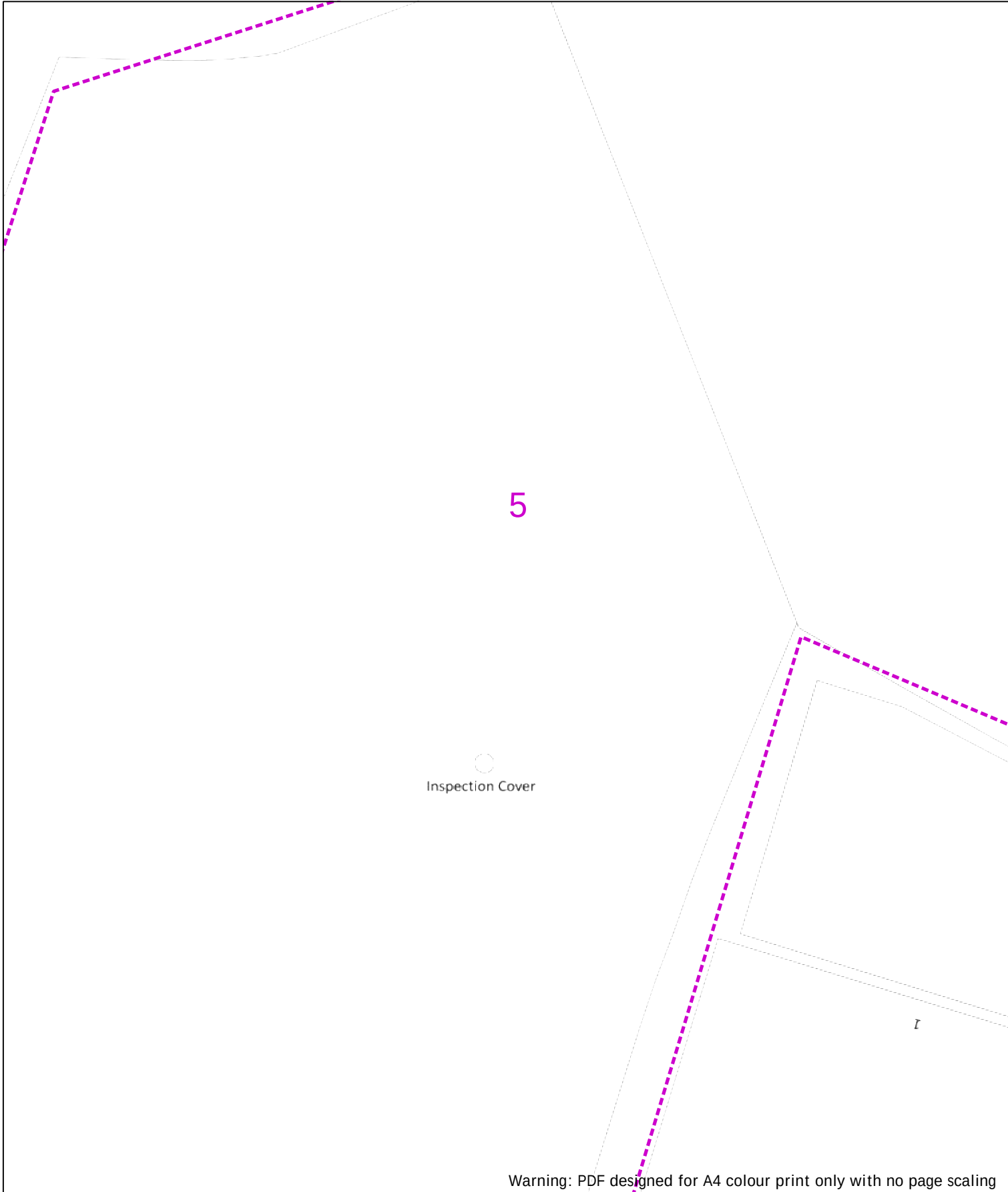
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020m

Dig Sites

Area:

Line:

Extra High Voltage

cables in vicinity

Date Requested: 01/03/2023

Job Reference: 28695858

Site Location: 470647 106185

Requested by: Mrs Alison McGuinness

Your Scheme/Reference: L10313

Voltages (V)				
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EHV (Extra High Voltage)	22,000V to 132,000V			
Transmission	275,000V and 400,000V			
NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
Services	LV	HV	EHV	
Footpath/Unmade	0.45m	0.45m	0.6m	0.8m
Road Crossing	0.6m	0.6m	0.75m	0.9m
Agricultural	1m	1m	1m	1.1m

Legend

Service Cable

LV Mains

2 - 33kV

66kV

11kV

22kV

33kV

66kV

132kV

275kV

400kV

Fibre Optic

Pilot Cable

Pole, Existing Location

Pole Structure, Existing Location - Single

Pole Structure, Existing Location - H

Duct Route

Cross Section Route

WARNING

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0 20m Dig Sites Area: Line:

Extra High Voltage
cables in vicinity



Date Requested: 01/03/2023

Job Reference: 28695858

Site Location: 470647 106185

Requested by: Mrs Alison McGuinness

Your Scheme/Reference: L10313

Scale: 1:500 (When plotted at A4)

Voltages (V)				
LV (Low Voltage) and Services				
Up to 1,000V				
HV (High Voltage)				
Over 1,000V to 11,000V				
EHV (Extra High Voltage)				
22,000V to 132,000V				
Transmission				
275,000V and 400,000V				
NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
Services				
Footpath/Unmade	0.45m	0.45m	0.6m	0.8m
Road Crossing	0.6m	0.6m	0.75m	0.9m
Agricultural	1m	1m	1m	1.1m

Legend	
Service Cable	
LV Mains	
2 - 33kV	
66kV	
11kV	
22kV	
33kV	
66kV	
132kV	
275kV	
400kV	
Fibre Optic	
Pilot Cable	

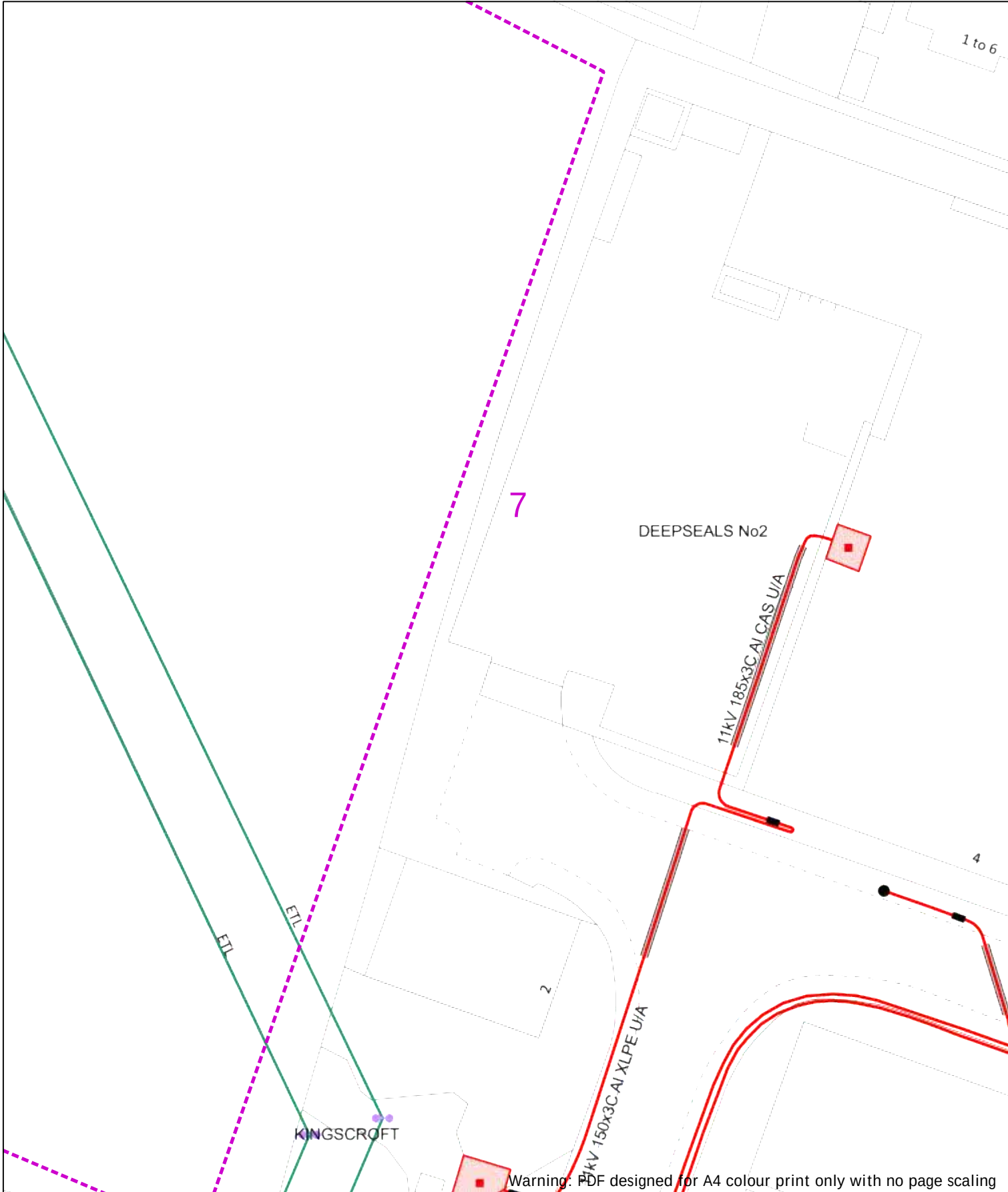
Distribution Structures (Electric)	
Pole, Existing Location	
Pole Structure, Existing Location - Single	
Pole Structure, Existing Location - H	
Duct Route	
Cross Section Route	

WARNING
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43 Forbury Road Reading RG1 3JH
Registered In England & Wales No.04094290

If you're unsure & need to seek advice before commencing excavations, please contact:
General Enquiries: 0800 048 3516

Subject to revision - Master held by SSEN Asset Data Team:
Asset.Data@sse.com
01256 337 294



Warning: PDF designed for A4 colour print only with no page scaling

020m

Dig Sites

Area:

Line:

Extra High Voltage
cables in vicinity

Date Requested: 01/03/2023

Job Reference: 28695858

Site Location: 470647 106185

Requested by: Mrs Alison McGuinness

Your Scheme/Reference: L10313

Voltages (V)				
LV (Low Voltage) and Services	Up to 1,000V			
HV (High Voltage)	Over 1,000V to 11,000V			
EHV (Extra High Voltage)	22,000V to 132,000V			
Transmission	275,000V and 400,000V			
NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
Services	LV	HV	EHV	
Footpath/Unmade	0.45m	0.45m	0.6m	0.8m
Road Crossing	0.6m	0.6m	0.75m	0.9m
Agricultural	1m	1m	1m	1.1m

Legend

Service Cable

LV Mains

2 - 33kV

66kV

11kV

22kV

33kV

66kV

132kV

275kV

400kV

Fibre Optic

Pilot Cable

Distribution Structures (Electric)

Pole, Existing Location

Pole Structure, Existing Location - Single

Pole Structure, Existing Location - H

Duct Route

Cross Section Route

WARNING

There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive - Avoiding Danger from Buried Cables - should be consulted before commencing excavation work.

WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES G56 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

Southern Electric Power Distribution plc

Registered Office: No.1 Forbury Place

43 Forbury Road Reading RG1 3JH

Registered In England & Wales No.04094290

If you're unsure & need to seek advice before commencing excavations, please contact:

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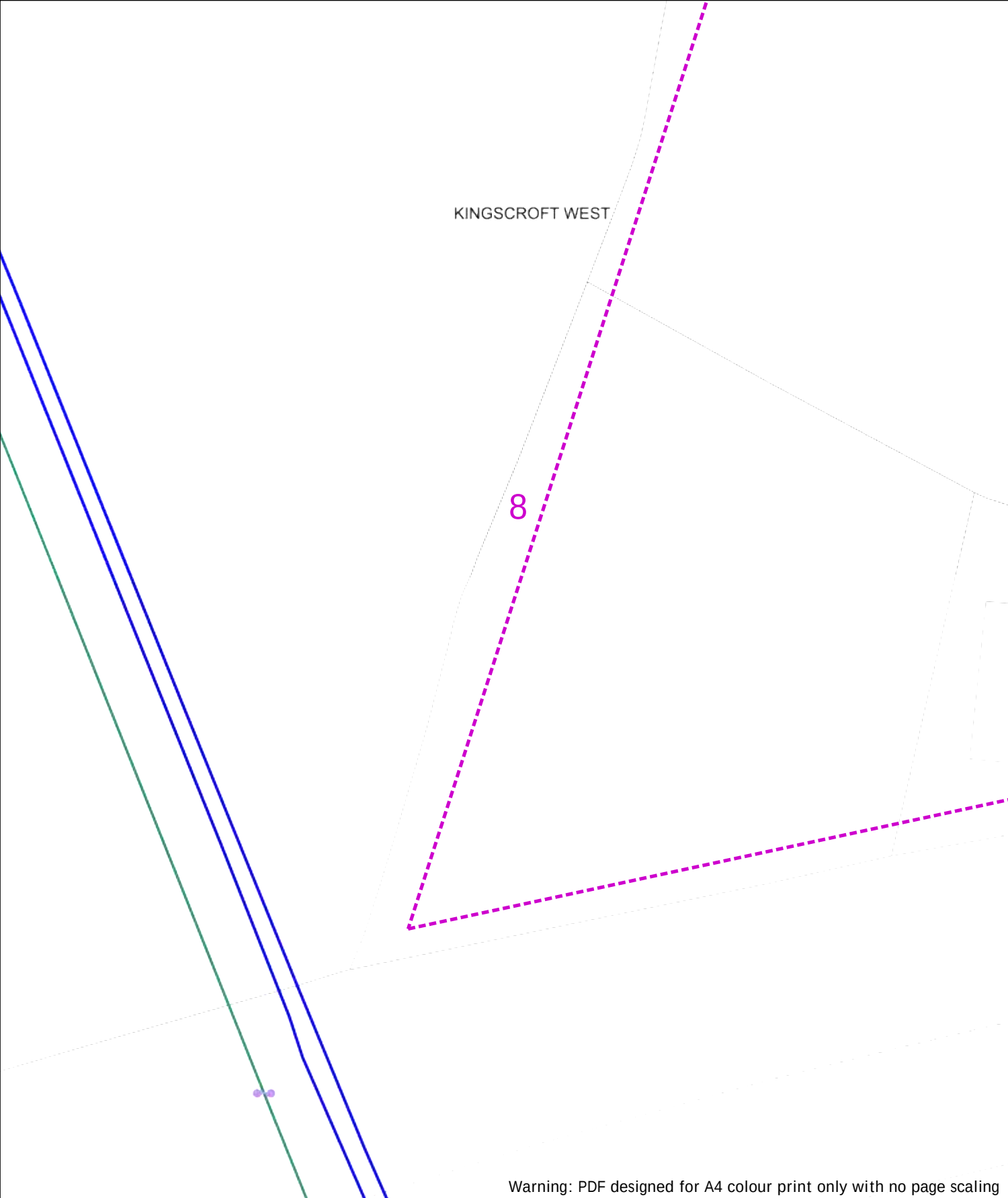
01256 337 294

Scale: 1:500 (When plotted at A4)

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020m

Dig Sites

Area:

Line:

Extra High Voltage

cables in vicinity

Date Requested: 01/03/2023

Job Reference: 28695858

Site Location: 470647 106185

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NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
Services	LV	HV	EHV	
Footpath/Unmade	0.45m	0.45m	0.6m	0.8m
Road Crossing	0.6m	0.6m	0.75m	0.9m
Agricultural	1m	1m	1m	1.1m

Legend

Service Cable

LV Mains

2 - 33kV

66kV

11kV

22kV

33kV

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132kV

275kV

400kV

Fibre Optic

Pilot Cable

Distribution Structures (Electric)

Pole, Existing Location

Pole Structure, Existing Location - Single

Pole Structure, Existing Location - H

Duct Route

Cross Section Route

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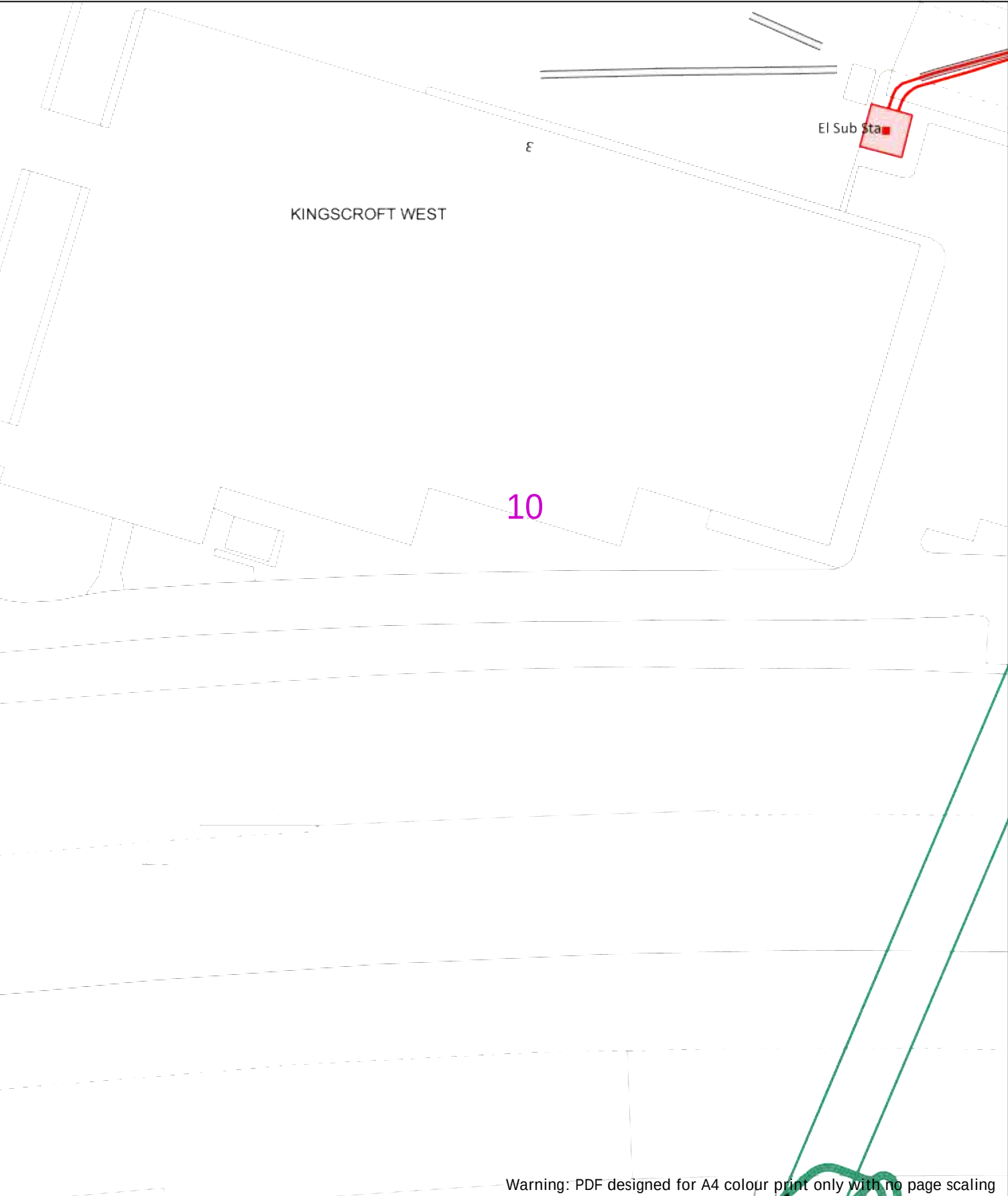
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020m

Dig Sites

Area:

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Extra High Voltage

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Date Requested: 01/03/2023

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Voltages (V)

LV (Low Voltage) and Services

Up to 1,000V

HV (High Voltage)

Over 1,000V to 11,000V

EHV (Extra High Voltage)

22,000V to 132,000V

Transmission

275,000V and 400,000V

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID

Services	LV	HV	EHV
Footpath/Unmade	0.45m	0.45m	0.8m
Road Crossing	0.6m	0.6m	0.75m
Agricultural	1m	1m	1.1m

Legend

Service Cable

LV Mains

2 - 33kV

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11kV

22kV

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Distribution Structures (Electric)

Pole, Existing Location

Pole Structure, Existing Location - Single

Pole Structure, Existing Location - H

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Cross Section Route

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General Enquiries: 0800 048 3516

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Asset.Data@sse.com

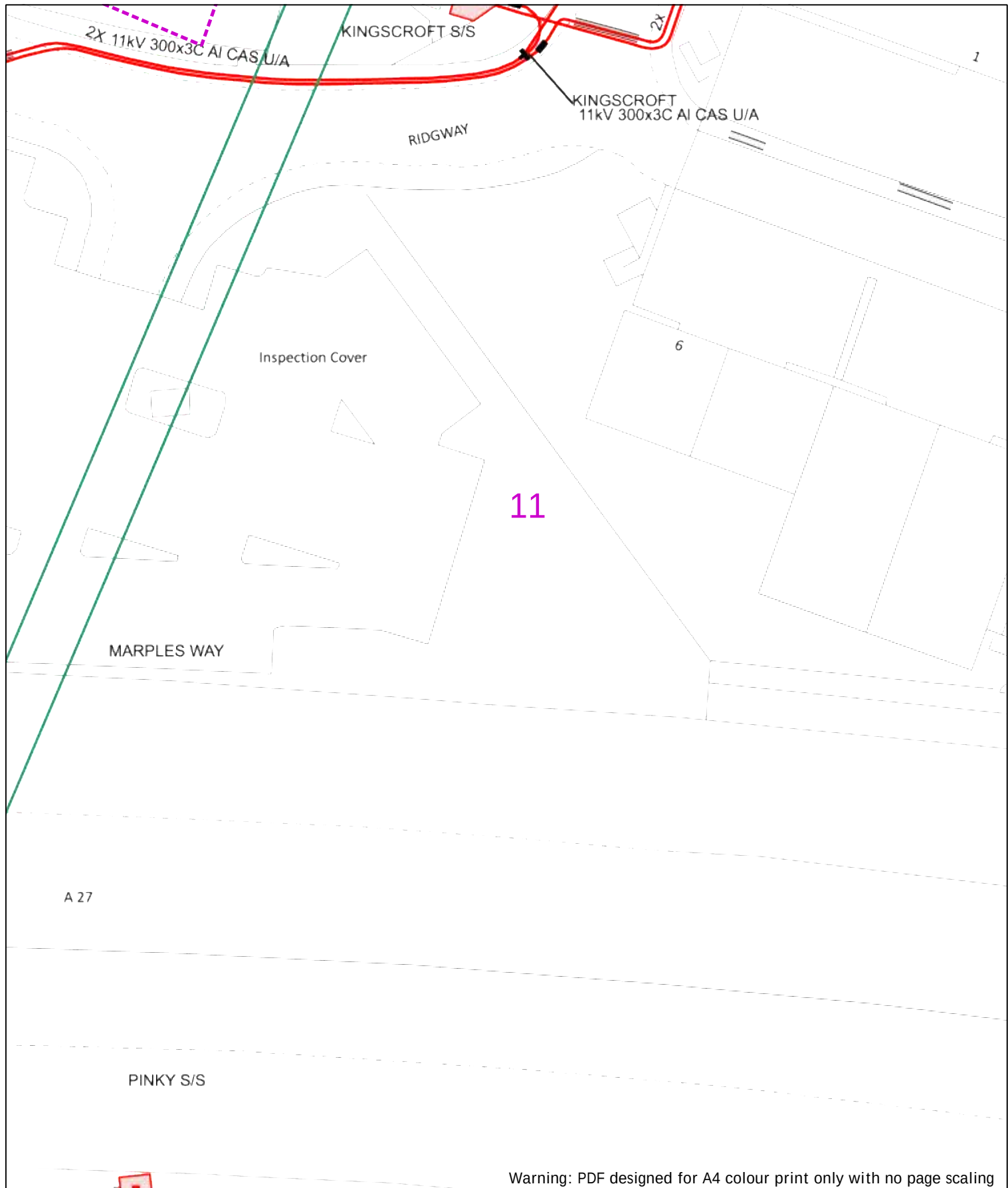
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Warning: PDF designed for A4 colour print only with no page scaling

0

20m

Dig Sites

Area:

Line:

Extra High Voltage
cables in vicinity

Date Requested: 01/03/2023

Job Reference: 28695858

Site Location: 470647 106185

Requested by: Mrs Alison McGuinness

Your Scheme/Reference: L10313

Voltages (V)				
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HV (High Voltage)	Over 1,000V to 11,000V			
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Services	LV	HV	EHV	
Footpath/Unmade	0.45m	0.45m	0.6m	0.8m
Road Crossing	0.6m	0.6m	0.75m	0.9m
Agricultural	1m	1m	1m	1.1m

Legend

Service Cable

LV Mains

2 - 33kV

66kV

11kV

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Asset.Data@sse.com

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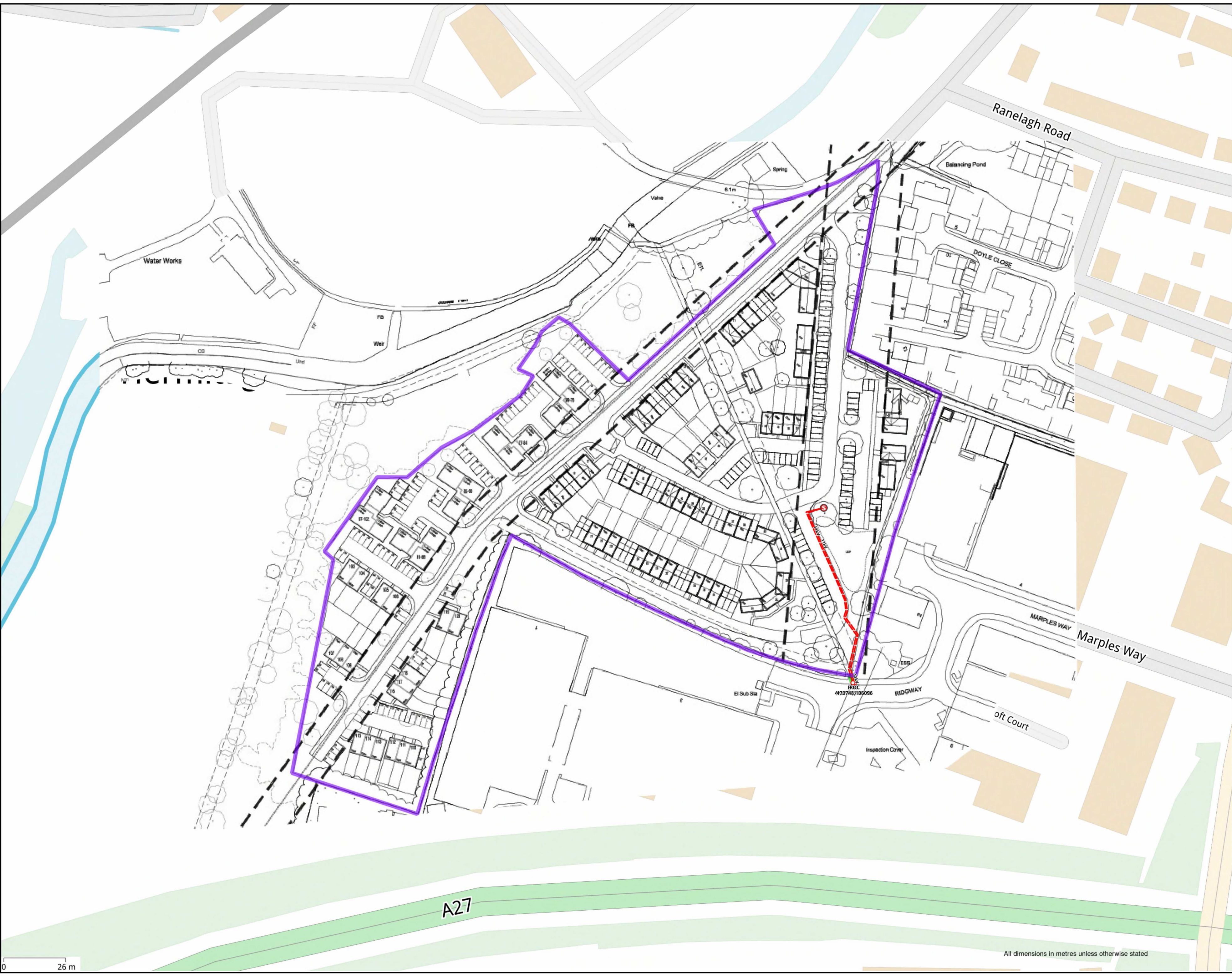
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Plans generated by DigSAFE Pro™ software provided by LinesearchbeforeDig.



oft Court

Scale: 1:500	Sheet Size: A3
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Electric Notes
For full details please refer to document GTC Technical Guidelines – ELECTRIC (GE-TGI-HG-0015).

Backfill Specification
Directly buried cables should be surrounded by cable sand installed to BS EN 13139 - Aggregate size of 0/2mm to CAT 4. A 75mm layer should be placed on the bottom of the trench and a further 75mm above the top of the cable.

Ducting Specification

- Black ducting for mains shall be 150mm rigid plastic during compliance with the ENA TS 12-24
- Ducting for LV single phase services shall be 98mm outside diameter black polyduct compliant with ENA TS 12-24
- 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	38mm
3 Phase LV	150mm
LV	150mm

Service Sizes
All service cables to properties are single phase 35mm² Al Cable terminated in 100 Amp cut out (except where specified).

Material Specification
All cables, equipment and construction method on this network are to be in accordance with G61 documentation.

132kV Cable

66kV Cable

33kV Cable

20kV Cable

11kV Cable

6.6kV Cable

LV 3 Core Cable

Copper Earth Cable

Service Cable

Ducted Cable

Proposed

Laid

Substation

Surface Category Key

Verge/Unmade

Footway

3/4 road

1/2 road

2 Way Link Box

4 Way Link Box

Plan Notes
This plan shows apparatus owned by the BULK Group. Any third party apparatus indicated on these drawings is shown for indicative purposes only. The information shown on this plan is given without warranty, the accuracy cannot be guaranteed. No liability of any kind whatsoever is 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 0100021063.

Developers Responsibility
When apparatus have been laid it becomes the responsibility of the developer to ensure it is suitably protected, therefore backfilling should be carried out as soon as possible. Replacement and repair of damaged apparatus, including administrative costs will be fully recharged to the developer. It will be the developer's responsibility to recover the costs from the third parties.

GTC, Synergy House
Hedge Business Park
Suffolk, IP30 9UP
T: 01559 240154
E: sales@gtc-uk.co.uk
W: www.gtc-uk.co.uk

OS Ref:

470647106178

Location:

Kingscroft, Ridgeway,
HAVANT, Hampshire, PO9
1QJ

Developer/Client:

JNP Group

Presales Number:

34149645

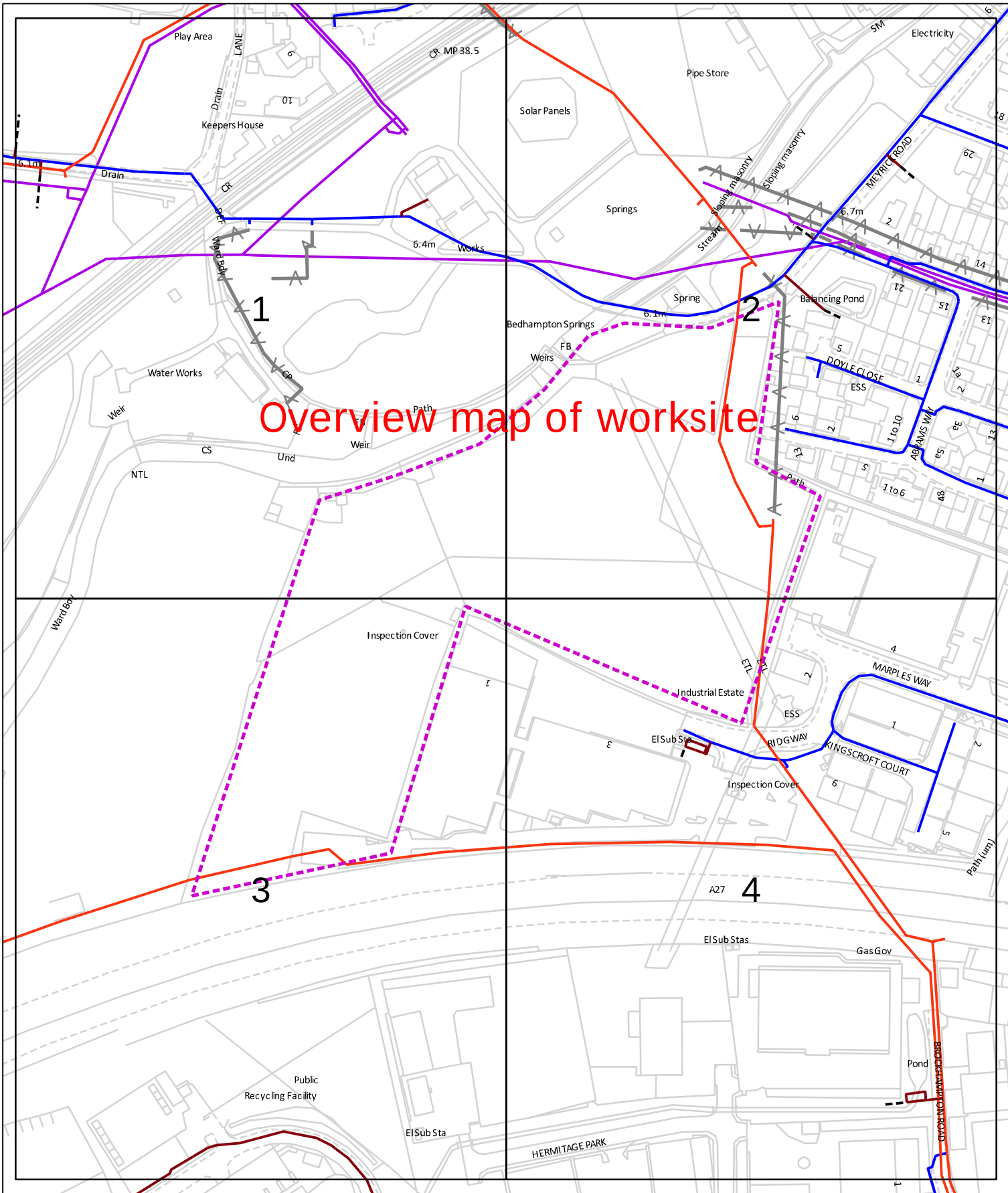
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1:1000

Sheet Size:

A2

APPENDIX E: WATER SUPPLY ASSET RECORDS AND COMMUNICATIONS



Dig Sites Area: Line: Measurements scaled from this plan may not match measurements between the same points on the ground.

Date Requested: 02/03/2023
 Job Reference: 28695858
 Site Location: 470647 106185
 Requested by: Mrs Alison McGuinness
 Your Scheme/Reference: L10313

— Distribution Mains — Raw Water Main — Fire Main — Abandoned Mains
— Communication Pipe — Trunk Main - - - Private Mains — Cable

The information supplied is given in good faith as a guide to locating underground apparatus. Its accuracy cannot be guaranteed, nor does it include comprehensive information about the existence or location of service pipes or cables to individual premises. The responsibility for locating and avoiding damage to apparatus on site shall be that of the person proposing to excavate in the street who shall be liable to the apparatus owner and any third party who may be affected in any way for any loss or damage caused by their failure to do so.

Scale: 1:2562 (When plotted at A4)



Registered Office
 P.O. BOX NO. 8, West Street, Havant,
 Hampshire. PO9 1LG.
 Registered in England No. 2536455
 Telephone: (023) 9249 9888
 Fax: (023) 9245 3632
 Website: www.portsmouthwater.co.uk

0 50m Dig Sites Area: Line: Measurements scaled from this plan may not match measurements between the same points on the ground.



- Butterfly Valve
- Pressure Flow Valve
- Meter

New Appointments & Variations
Assets within shaded area please
contact: Leep Utilities
Email: water@leeputilities.co.uk
Tel: 0345 122 6780

The information supplied is given in good faith as a guide to locating underground apparatus. Its accuracy cannot be guaranteed, nor does it include comprehensive information about the existence or location of service pipes or cables to individual premises. The responsibility for locating and avoiding damage to apparatus on site shall be that of the person proposing to excavate in the street who shall be liable to the apparatus owner and any third party who may be affected in any way for any loss or damage caused by their failure to do so.

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Fax: (023) 9245 3632
Website: www.portsmouthwater.co.uk

0 50m Dig Sites Area: Line: Measurements scaled from this plan may not match measurements between the same points on the ground.



- Butterfly Valve
- Pressure Flow Valve
- Meter

New Appointments & Variations
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Email: water@leeputilities.co.uk
Tel: 0345 122 6780

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0 50m Dig Sites Area: Line: Measurements scaled from this plan may not match measurements between the same points on the ground.



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- Pressure Flow Valve
- Meter

New Appointments & Variations
Assets within shaded area please
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Email: water@leeputilities.co.uk
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Fax: (023) 9245 3632
Website: www.portsmouthwater.co.uk

13TH JUNE 2023



F.A.O. JAKE NICHOLAS

JNP GROUP
33 COLSTON AVENUE
BRISTOL
BS1 4UA

Registered Office:
Portsmouth Water Ltd
PO Box 8
Havant
Hampshire PO9 1LG

Tel: 023 9249 9888
Fax: 023 9245 3632
Web: www.portsmouthwater.co.uk

Please ask for: New Developments
Our Ref: H6214
Your Ref:

Dear Jake,

H6214 KINGSCROFT FARM, RIDGWAY, HAVANT, PO9 1QJ.

Thank you for your pre-development enquiry in respect of water mains at the above location.

In response to your enquiry, I report the following:

Existing Network Capacity

Based on the estimated demand of your development there is capacity within our existing network without the need for Network Reinforcement to supply this development and maintain levels of service to our existing customers.

Indicative Costs

We have estimated the cost of the required main-laying and service connections for this development, based on 120 units and the drawing you provided, 18.0999_Kingscroft Farm, Havant_Sketch Option B_RevA.

Main Laying Cost	£75,466.40
Service Connection Cost	£20,105.00
Infrastructure Charge	£38,520.00
Infrastructure Charge Income Offset	(-£51,600.00)

Please note these costs are only indicative, they have been calculated based on our Developer Services Charging Arrangements 2022-23 and the proposed number of plots to be constructed. Detailed costs can be obtained by applying for a Mains Design.

Diversiory Works

We need to make you aware that there is a Wayleave between Portsmouth Water and SSE which is shown in Green on the attachment with our existing mains and Wayleave. Portsmouth Waters 15" Cast Iron Main and the 400mm DI will also potentially have to be diverted due to the location of the proposed properties shown on the attached Overlay pdf..

Flow and Pressure

We have a duty to provide a minimum guaranteed water pressure of 10 metres head (1 bar) and a flow rate of at least 9 litres per minute. This minimum standard is measured at the stop valve which is usually situated at the boundary of the property. Operationally throughout our area of supply our water pressure varies.

Some of our customers require continuous water pressure above the minimum guaranteed standard. This can be achieved through a combination of water storage and a pressured boosted system.

Terms and Conditions

If you proceed with this development and apply for a Mains Application & Design you will be offered the following payment options for the provision of mains, these are:

Portsmouth Water

The developer opts for the incumbent water authority to install the water mains for this development. Please note; there is no longer a financial contribution towards the cost of mainlaying; instead, the new 'Income Offset' is applied via the Infrastructure Charge Income Offset.

Self-Lay

The developer chooses to appoint an accredited Self-Lay Provider to install the water mains on this development. These will then be vested to Portsmouth Water. Please note; there is no longer an Asset Payment under our new charging arrangements.

More information regarding our services, charges and terms and conditions can be found in our Developer Services Charging Arrangement 2022-23 document which is available on our website:

www.portsmouthwater.co.uk/developers/

Existing Mains and Services

The enclosed extract of Ordnance Survey sheet shows our existing water mains in the area of your proposed development. The extract shows only mains, it does not show locations of services. Should accurate information regarding the Company's assets be required, then trial holes should be taken by hand digging, no mechanical plant should be used within two metres of the Company's mains.

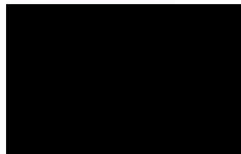
Please note that all enquiries regarding sewerage should be directed to Southern Water, who is the responsible undertaker in this area.

Contaminated Land

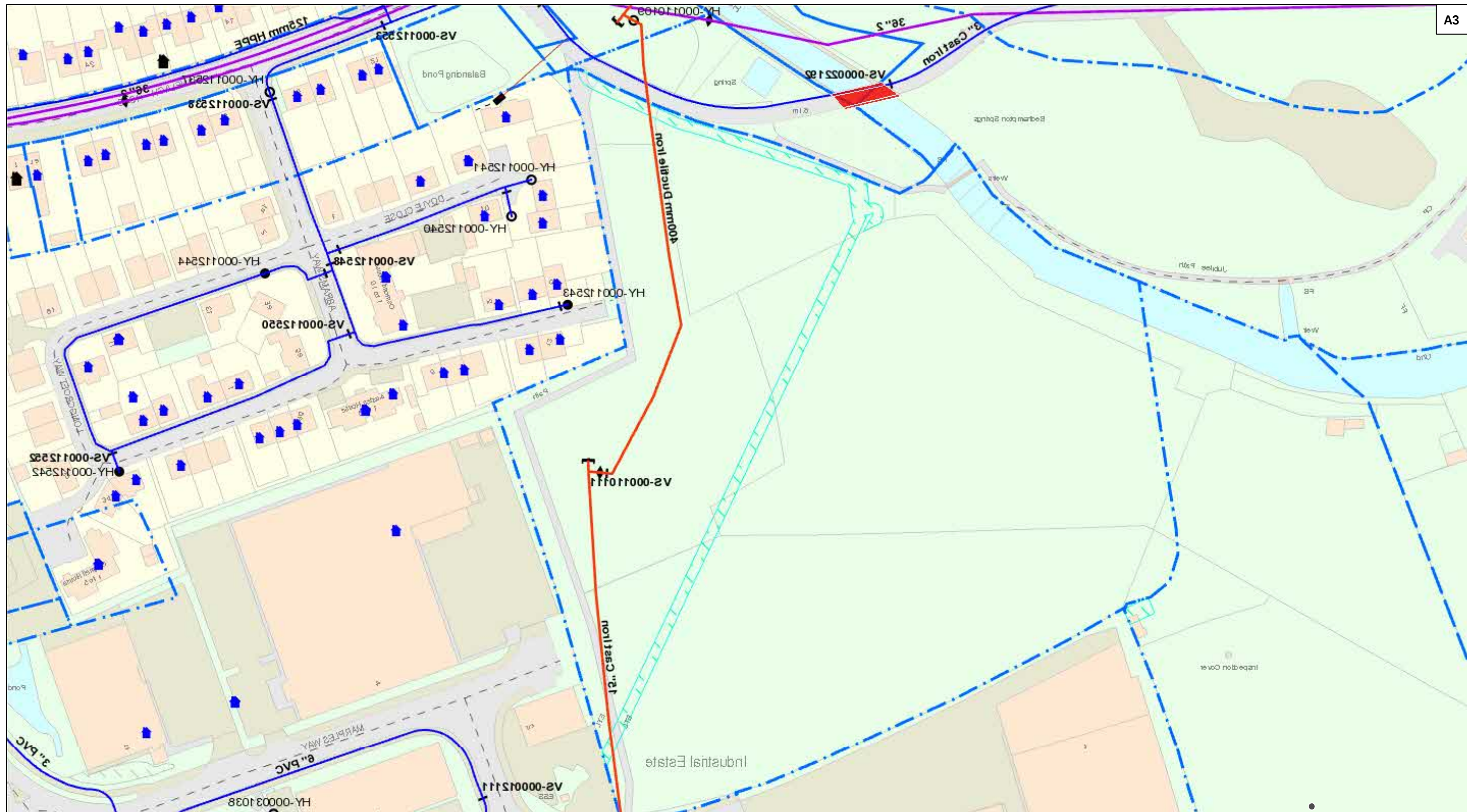
Certain soil contaminants can permeate polyethylene water pipes. We require a soil investigation report in order to determine the appropriate material of water main to install, to ensure the wholesomeness of our water supplied for this development. If a soil investigation report has not been provided, we will assume for the purpose of this estimate that this site to be contaminated and estimated for an impermeable barrier pipe to be installed.

If you have any queries or would like to discuss any of the above in more detail, please contact our New Developments Team on 02392 249327 or email new.developments@portsmouthwater.co.uk.

Yours Sincerely,



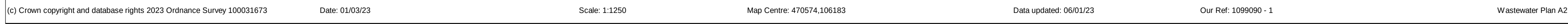
Chris Knight
Senior Contracts Engineer



A3

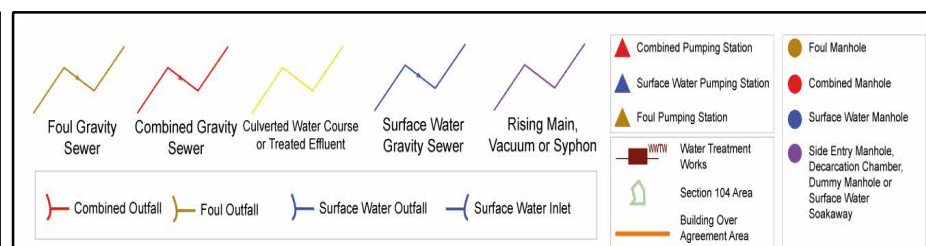
Mains - Distribution - Fire - Trunk - Raw - Communication - Private Main - Abandoned	Valves / Fittings - CappedEnd - StopCock - ButterflyValve - Pressure Flow Control Valve	- RefluxValve - Air Valve - Open Valve - Closed Valve	Hydrant - Company Washout Hydrant(Double) - Company Washout Hydrant(Double) Offset - Company Washout Hydrant(Single) - Company Washout Hydrant(Single) Offset	- Fire Brigade Hydrant(Double) - Fire Brigade Hydrant(Double) Offset - Fire Brigade Hydrant(Single) - Fire Brigade Hydrant(Single) Offset - Fire Brigade Washout Hydrant
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APPENDIX F: FOUL DRAINAGE ASSET RECORDS AND COMMUNICATIONS



WARNING: BAC pipes are constructed of Bonded Asbestos Cement.

WARNING: Unknown (UNK) materials may include Bonded Asbestos Cement.



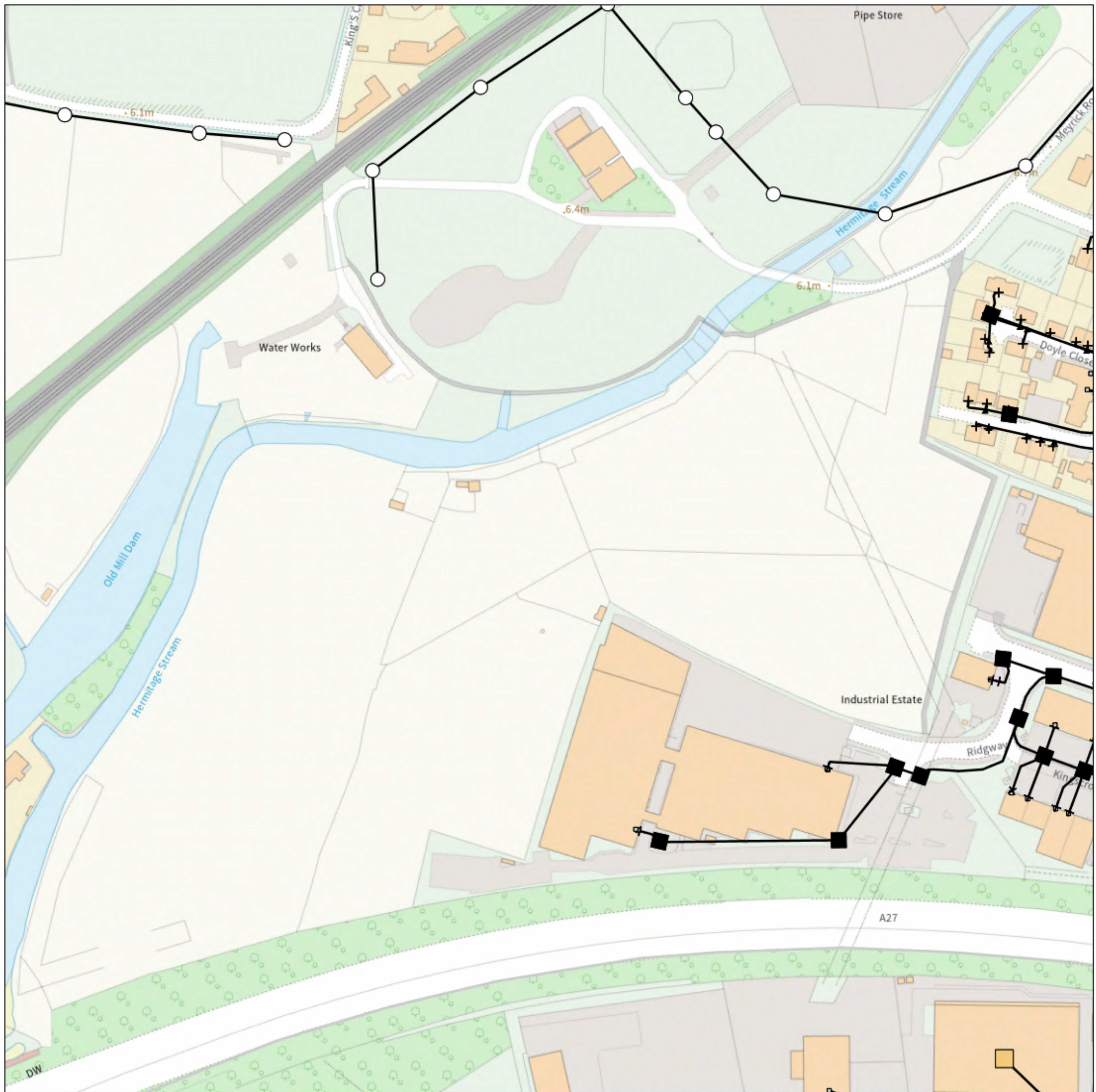
alison.mcguinness@groundengineering.co.uk

Havant



APPENDIX G: TELECOMMUNICATIONS AND COMMUNICATIONS

Maps by email Plant Information Reply



IMPORTANT WARNING

Information regarding the location of BT apparatus is given for your assistance and is intended for general guidance only. No guarantee is given of its accuracy. It should not be relied upon in the event of excavations or other works being made near to BT apparatus which may exist at various depths and may deviate from the marked route.



openreach

CLICK BEFORE YOU DIG

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

email cbyd@openreach.co.uk

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

Accidents happen

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

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Controller of Her Majesty's Stationary Office
(C) Crown Copyright British Telecommunications plc 100028040

KEY TO BT SYMBOLS

	Planned	Live	Change Of State	+	Hatchings	
PCP			Split Coupling	X	Built	
Pole			Duct Tee	▲	Planned	
Box			Building		Inferred	
Manhole			Kiosk	K	Duct	
Cabinet			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.			
	Pending Add	In Place	Pending Remove	Not In Use		
Power Cable						
Power Duct				N/A		

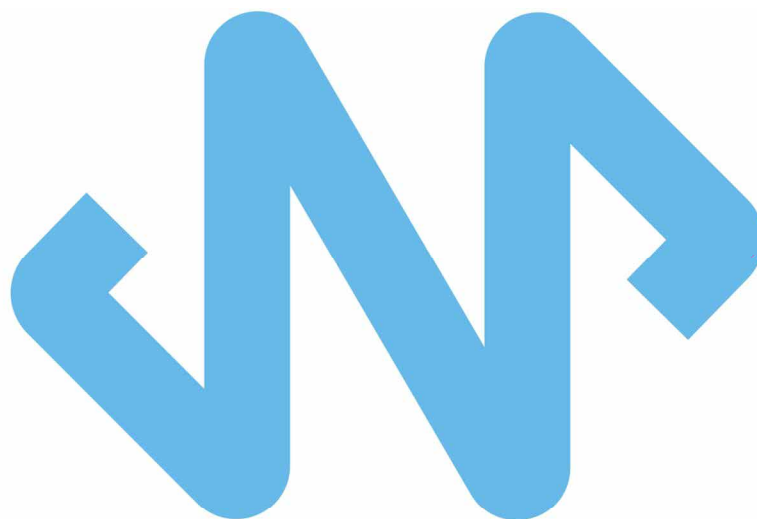
BT Ref : QOA03189D

Map Reference : (centre) SU7057406183

Easting/Northing : (centre) 470574,106183

Issued : 01/03/2023 15:18:24

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



JNP GROUP

CONSULTING ENGINEERS

Amersham (HQ)

Sycamore House
1 Woodside Road
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