



**FOUL DRAINAGE &
UTILITIES ASSESSMENT**
Caversham Park, Peppard Road,
Caversham, Reading, RG4 8TZ

Document History

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1	10 Dec 21	First Draft Issue for Client's Comments	A Persins / J Dunesby	J Hanlon
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1.0 Introduction

- 1.1 This Foul Drainage and Utilities Assessment report has been prepared by Glanville Consultants on behalf of Beechcroft Developments Ltd to accompany an application for the conversion and redevelopment of Caversham Park, Peppard Road, Caversham, Reading, RG4 8TZ (the 'Site'), to create a mixture of affordable, private, assisting living and care home accommodation.
- 1.2 The purpose of this document is to assess the feasibility of servicing the proposed development with all necessary foul drainage and utility infrastructure.
- 1.3 This assessment examines all the 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 whether any diversions or easements are required to facilitate the development.
- 1.4 The utility services examined comprise
- Electricity;
 - Telecommunications;
 - Gas;
 - Potable water; and
 - Foul water
- 1.5 The surface water drainage infrastructure is described within a Flood Risk Assessment report which has been prepared as a separate document and is submitted as part of the planning application.

Planning Description of Proposed Development

- 1.6 Redevelopment of Caversham Park for 65 assisted living units (Class C2) for the over 55's through the conversion of Caversham Park House, 64 bed care home (Class C2), 61 age-restricted retirement dwellings (Class C3), including conversion of the existing buildings The Bursars House and The Lodge, 27 affordable dwellings (Class C3), and refurbishment and extension of the existing pavilion to provide changing facilities, café/studio/interpretation hub and sports provision comprising 2 no. croquet lawns, 2 no. bowling greens, refurbishment of the existing tennis court and associated parking.
- 1.7 Listed Consent - Listed Consent - Works associated with the redevelopment of Caversham Park to provide assisted living units including alterations to the main house and demolition of existing extensions. Works associated with the residential conversion of Bursars House, The Lodge and 2 Caversham Park Drive.

2.0 Existing Situation & Development Proposals

Site Location and Descriptions

- 2.1 The site is the whole of Caversham Park in Reading. It comprises the existing manor house, various outbuildings, associated car parking areas and the access road previously owned by British Broadcasting Company (BBC).
- 2.2 The site is bounded by residential houses to the south-west, west, north and east, and by green field to south-east. The approximate centre of the site is located at Ordnance Survey National Grid reference SU 72459 76262 and the postcode is RG4 8TZ. The site location plan is included in Appendix A.

Topographical Survey

- 2.3 A topographical survey was carried out by Midland Survey Ltd indicating that the site's high point is located slightly north-west of the centre of the site (circa 83.70m AOD). The ground slopes in all four directions away from the high point at various slopes. The lowest point in the east of where the proposed development ends is around 80.30m AOD.
- 2.4 A copy of the topographical survey map is included in Appendix B.

Development Proposals

- 2.5 The proposals comprise redevelopment of Caversham Park for:
- 65 assisted living units (class C2) for the over 55's through conversion of Caversham Park House;
 - 64 bed care home (Class C2);
 - 61 age restricted retirement dwellings (Class C3), including conversion of the existing buildings The Bursars House and The Lodge (Class C3)
 - 27 affordable dwellings (Class C3); and
 - refurbishment and extension of the existing pavilion to provide changing facilities, café/studio/interpretation hub and sports provision comprising 2 no. croquet lawns, 2 no. bowling greens, refurbishment of the existing tennis court and associated parking.
- 2.6 The proposed site layout is provided in Appendix C.

3.0 Utilities Assessment

- 3.1 This section identifies existing utility supply infrastructure on and/or 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 or in the vicinity of the site. Copies of the relevant service records obtained are included in the appendices stated below.
- 3.3 As part of the assessment, a LineSearch enquiry was also conducted to ascertain the presence of strategic apparatus, such as apparatus belonging to oil companies of the Government. The enquiry indicated that SGN and Scottish and Southern Electricity Networks (SSEN) may have assets within the site boundaries. Service records from both providers have been obtained and are discussed in the following paragraphs. A copy of the LineSearch enquiry has been included in Appendix D.

Existing Services

- 3.4 Service records have been obtained from the following utility companies which have apparatus within or in the vicinity of the site:
- SGN (Gas);
 - SSEN (Electricity);
 - BT Openreach and Virgin Media (Telecommunications); and
 - Thames Water (Potable Water);
- 3.5 Thames Water also operates as the sewerage undertaker for the surrounding area and as such sewer records for the local area have been obtained.

Gas

- 3.6 Service records have been provided by SGN and are included in Appendix E.
- 3.7 The SGN records identify gas mains located within the vicinity of the site with Low Pressure (LP) mains located to the north, east, and west of the site within Peppard Road and Lowfield Road, as well as 10" Medium Pressure (MP) main located to the northwest of the site within Lowfield Road.
- 3.8 The SGN records also show a 180mm LP gas main located within the site boundary running from the LP main in Lowfield Road (to the northwest of the site) to a gas meter located in the car park behind the pavilion (to the northwest of the site adjacent to Caversham Park Drive). This SGN LP main currently supplies natural gas to the site and does not serve any other properties.
- 3.9 Based on this information it is anticipated that the site could be served by the existing SGN LP main located on site. Additionally, since the SGN LP main does not serve any other properties, it is anticipated that no easements or diversions are expected to be necessary to facilitate the development. However, this will be discussed further with SGN at the appropriate design stage.

Electricity

- 3.10 Service records have been obtained from SSEN and are included within Appendix F.
- 3.11 The SSEN records show Low Voltage (LV) and High Voltage (HV) underground mains cables located to the north, east and west of the site within Peppard Road and Lowfield Road, as well as assets located within the boundary of the site. These assets include a Substation, 11kV HV underground mains cable and two LV underground mains cables.
- 3.12 The Substation is located to the northwest of the manor house. The Substation is connected to the SSEN electricity network by an 11kV HV underground mains cable which emanates from a HV underground mains cable located within Peppard Road to the west of the site. This 11kV HV mains cable enters the western site boundary through the site entrance and runs along Caversham Park Drive. Based on the location of both the substation and the 11kV HV underground mains cable it is anticipated that all buildings within the site are served by them.
- 3.13 The first LV underground mains cable which enters the site boundary is located to the southeast of the site, running from east to west underneath Lowfield Lane and enters the site through the eastern boundary. The purpose of this cable is to provide services to a satellite dish located to the southeast of the site and is the only structure which is served by this cable.
- 3.14 The second LV underground mains cable is located within the public footway along Peppard Road and serves the existing properties opposite the site's western boundary. This cable runs from north to south and encroaches slightly on the site as it passes underneath the site entrance to continue south down Peppard Road. As the cable only passes underneath the site entrance it is assumed that the cable does not serve any of the existing buildings on site.
- 3.15 Based on this information it is anticipated that the site could be served by the existing SSEN 11kV HV underground mains cable and Substation located on site. However, to ensure the site has sufficient capacity, allowance for a future Substation has been incorporated into the proposed site layout but whether this Substation is required will be confirmed at the detailed design stage.

Telecommunications

- 3.16 Service records obtained from BT Openreach and Virgin Media are included in Appendix G. Mapping provided by the service providers indicates that there is a vast network of cables serving both the buildings surrounding the site and existing buildings within the site.
- 3.17 Mapping provided by BT Openreach identifies cables that are located to the north, east, and west of the site within Peppard Road and Lowfield Road. In addition to the cables surrounding the site a number of BT Openreach assets were identified within the site boundary.

- 3.18 The BT Openreach assets identified originate from Peppard Road to west of the site with a series of cables and joint boxes entering through the site entrance and running along Caversham Park Drive. From the cables located along Caversham Park drive a number of cables and structures emanate from it which serve the manor and surrounding buildings, the pavilion and buildings located adjacent to the site entrance.
- 3.19 From the cables and structures which serve the manor, two cables emanate from the manor into the site. The first runs south and terminates in the large open field to the south of the manor. Whereas the second runs west and east along the gavel/grass path to the south of the manor, terminating to the east of the manor and at the site's western boundary.
- 3.20 Additionally, a number of BT Openreach structures including a cabinet shell, Service Pole and grounded overhead cable are present just inside the site boundary. These structures are located to the north (cabinet shell), east (Service Pole) and west (grounded overhead cable) of the site. However, these structures are not located within areas of proposed development and therefore are not expected to be a constraint.
- 3.21 Mapping provided by Virgin Media identifies cables that are located along both Peppard Road and Lowfield Road similar to the BT Openreach cables. From the mapping it can be identified that two cables are located within the site boundary.
- 3.22 The first originates from Lowfield Road entering through the eastern boundary of the site and running west along the gravel/grass path to the south of the manor. Based on the location of this cable it can be assumed that the manor is currently served by it.
- 3.23 The second originates from Peppard Road and enters the site at the site entrance to the west. Based on the location of this cable it can be assumed that the buildings located adjacent to the site entrance are currently served by it.
- 3.24 From review of the provided service records it is anticipated that site could be served by the existing BT Openreach and Virgin Media cables located on site.

Potable Water

- 3.25 Thames Water is the incumbent potable water supplier for the area surrounding the site. Mapping showing the potable water mains and infrastructure for the area have been obtained and are included in Appendix H.
- 3.26 The mapping provided by Thames Water identifies a series of distributions mains and hydrants located to the north, east and west of the site within Peppard Road and Lowfield Road.
- 3.27 In addition to the distribution mains there is also a 9" trunk main located to the west of the site within Peppard Road, however, since the trunk main and the public distribution mains are not located on site no easements or diversion are expected to be necessary.
- 3.28 In order to provide potable water to the existing buildings on site, Thames Water records identifies a 3" private water main located on site which emanates from a distribution main west of the site within Peppard Road. This water main runs from west to east from Peppard Road to the manor and is assumed to serve all the existing buildings within the site.

- 3.29 A pre-development enquiry has been submitted to Thames Water. The initial assessment by Thames Water, which was completed on the 9th of December 2020, concluded that their network at that time could only supply potable water to 25 properties out of 157. A letter from Thames Water is provided in Appendix I. The nearest point of connection, to serve the new development as advised by Thames Water will be to the 9" main on Peppard Road.
- 3.30 Thames Water have been asked to reconfirm that there is capacity for the same quantum of development given the passage of time. It is worth noting however that they have previously advise that their advice is valid until 8th December 2022 or for the duration of your Local Authority planning permission when their report is used to support the application.
- 3.31 Under infrastructure charging rules, Thames Water is obliged to supply potable water to the site, with any reinforcement work, if required.

Summary

- 3.32 Gas, electric, telecommunications and potable water mains are all indicated to be on or within the vicinity of the site.
- 3.33 Given the size and prevalence of the existing gas, electric and telecommunications infrastructure in the vicinity of the site, it is anticipated that the provision of these services should be capable of being provided.
- 3.34 Thames Water have previously confirmed that there is capacity in their network to meet the demands of 25 properties out of 157, as such the potable water supply for the site is subject to further capacity assessment by Thames Water and reinforcement works, if necessary.
- 3.35 At the appropriate stage in the development planning process, plans and service loadings should be requested by each service provider for detailed proposals for the provision of new supplies to be obtained.

4.0 Foul Water Drainage

- 4.1 This section of the report identifies the existing foul water drainage infrastructure on and in the vicinity of the site in order to assess the impact of the development on the existing infrastructure, whether any diversions or easements are required to facilitate the development and how the development could dispose of foul water.

Existing Foul Water Drainage Infrastructure

- 4.2 Thames Water is the incumbent sewerage undertaker for Reading Borough Council and have provided sewer records which are included in Appendix H.
- 4.3 Thames Water's sewer records do not indicate the presence of any adopted foul or surface water sewers within the site boundary. The nearest adopted foul water sewer is located within Peppard Road adjacent to the western boundary running from north to south. The nearest manhole ref. no. 1301.
- 4.4 As part of the topographical survey for the site a number of manholes were identified within the site boundary and in order to give an accurate assessment of the current on-site drainage, a CCTV Survey was undertaken by Metro Rod Ltd on the 13th June 2019.
- 4.5 The survey identified the location, depth and direction of foul water flows locally on the site and evaluated the condition of the surveyed manholes and pipes. Based on the CCTV report, it is understood that foul effluents are currently directed to the public foul water sewer located within Peppard Road to the west of the site. The survey was unable to confirm the exact point of connection between the site private drainage and Thames Water sewer. The CCTV drainage survey report is included in Appendix J.

Proposed Foul Water Drainage

- 4.6 A pre-development enquiry form has been submitted to Thames Water, to which Thames Water responded stating that the existing public sewer does not have sufficient capacity to accommodate foul effluents from the proposed development. Therefore, Thames Water will have to upgrade their network. The correspondence with Thames Water is attached to Appendix L.
- 4.7 Due to the size of the site and varying ground levels within the proposed development, the site has been split into three drainage catchments (A, B & C), based on drainage outfall options. The proposed drainage catchment plan is provided in Appendix K.
- 4.8 The proposed foul drainage design is described below on catchment basis. The proposed indicative foul drainage strategy layouts and typical drainage details are provided in Appendix M.

Catchment A

- 4.9 This catchment comprises 27 units in the west of the site and cricket pavilion buildings north of the proposed care home.
- 4.10 Due to tree root constraints, it was not possible to connect these areas of development to the existing private foul sewer, which currently serves the manor house.

- 4.11 It was, therefore, decided to gravitate foul effluents from these new buildings into Thames Water sewer under Peppard Road (Thames Water Manhole Ref. No. 1301).

Catchment B

- 4.12 The manor house with 65 assisted living units and the proposed care home with 64 beds are covered by this catchment. It is proposed to re-use the existing private foul water sewer, which currently serves the manor house to serve the proposed apartments within the manor house and the proposed care home.
- 4.13 The invert level assessment has shown that the gravity connections from both manor house and the care home into the existing private network are feasible. However, these connections are subject to confirmation of sewer capacity by Thames Water.

Catchment C

- 4.14 This catchment covers the housing development in the east of the site comprising 61 age restricted dwellings.
- 4.15 Due to the ground levels in the east of the site being approximately 3m lower than the ground levels in the west of the site, it is not possible to discharge foul effluents from Catchment C into Thames Water sewer within Peppard Road by gravity.
- 4.16 Therefore, a foul pumping station has been proposed to the west of the proposed housing development. Foul effluent from Catchment C will be discharged into the pumping station by gravity, where it will be pumped into the new gravity foul network, which will serve the building within the Cricket Pavilion (Catchment A), before discharging into Thames Water sewer under Peppard Road by gravity.

Summary

- 4.17 In summary, the design demonstrates that a workable foul water drainage strategy can be provided for the proposed development, subject to sewer upgrade works by Thames Water.
- 4.18 Thames Water have been instructed by the developer to carry out a modelling assessment of the foul network to establish what capacity exists and to understand what reinforcement works may be required to serve the catchment. Under infrastructure charging rules, Thames Water will be obliged to provide capacity including reinforcement work, if required.

5.0 Summary & Conclusion

- 5.1 This Foul Drainage and Utilities Assessment has been prepared by Glanville Consultants on behalf of Beechcroft Developments Ltd to accompany an application for the conversion and redevelopment of Caversham Park , Peppard Road, Reading, RG4 8TZ, to create a mixture of affordable, private, assisting living and care home accommodation.
- 5.2 The feasibility of servicing the proposed development with all necessary foul drainage and utility infrastructure has been assessed and the key points are summarised below.
- Gas, electric, telecommunications and potable water mains infrastructure are all indicated to be on or within the vicinity of the site.
 - Given the size and prevalence of the existing gas, electric and telecommunications infrastructure in the vicinity of the site, it is anticipated that the provision of these services should be capable of being provided.
 - There is some capacity to meet the potable water demand however the entire supply for the site is subject to further capacity assessment by Thames Water and reinforcement works, if necessary.
 - At the appropriate stage in the development planning process, plans and service loadings should be requested by each service provider for detailed proposals for the provision of new supplies to be obtained.
 - Thames Water have confirmed that there is insufficient capacity within the existing public foul drainage system. Thames Water have been instructed to undertake modelling work to better understand what upgrades might be required to their network in the future.
 - A workable foul water drainage strategy can be provided for the proposed development, subject to sewer upgrade works by Thames Water.
 - A sewerage undertaker has a duty to develop its network in order to meet increasing demand through new connections. As such, network capacity should not be a constraint to development.
- 5.3 In conclusion, given the proximity of the site to existing drainage and utility infrastructure, it is considered that the provision of new infrastructure to serve the proposals will not be a constraint to the redevelopment of the site for residential use as proposed.

Appendices

Appendix A

Site Location Plan



NOTES		
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REVISIONS		
Rev.	Date	Description

Client :
Beechcroft
Developments

Job :
Caversham Park
Reading

Drawing Title:
Topo / Title Plan
Overlay

Scale:
1:1250 @ A0
Date:
Nov 2021
Drawn By
RN
Checked

Revision:
Drawing No.
3251.P.1000

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Appendix B

Topographical Survey

Appendix C

Proposed Site Layout

ALL DIMENSIONS ARE TO BE CHECKED AGAINST ACTUAL SITE
DIMENSIONS BEFORE ANY WORK IS FABRICATED.

Rev.	Date	Description
A	12/21/21	Updated
B	18/02/22	Lifted wall & stair core added to Eastern end
C	21/02/22	Northern footpath
D	22/02/22	Southern path revised
E	28/02/22	Western path revised
F	04/03/22	Highways Amends
G	04/03/22	Highways Amends
H	04/03/22	Highways Amends
J	30/09/22	Updated
K	08/10/22	Minor amendments
L	18/10/22	LTE Updated
M	21/10/22	LTE Updated
N	24/10/22	LTE Updated
P	23/11/21	Highways amends
Q	23/11/21	New Gates shown
R	12/22/22	Rev. walls, rev. rev.
S	09/05/23	Rev Layout
T	22/05/23	Rev Layout
U	30/05/23	Rev Layout
V	02/06/23	Rev Layout
W	03/06/23	Rev Layout
X	14/06/23	Rev Layout

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Appendix D

LineSearch Enquiry

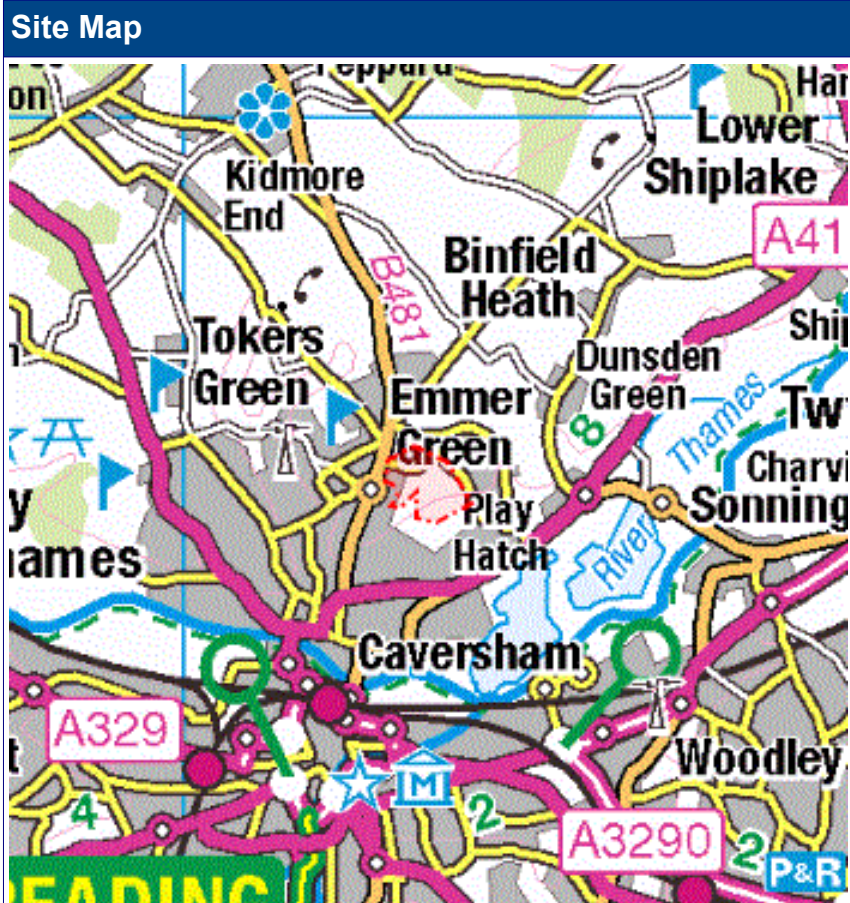
Enquirer

Name	Ms Debbie Wigston	Phone	01235515550
Company	Glanville Consultants	Mobile	Not Supplied
Address	Cornerstone House 62 Foxhall Road Didcot Oxfordshire OX11 7AD		
Email	dwigston@glanvillegroup.com		

Enquiry Details

Scheme/Reference	8210940		
Enquiry type	Initial Enquiry	Work category	Development Projects
Start date	10/11/2021	Work type	Housing
End date	28/02/2022	Site size	438799 metres square
Searched location	XY= 472459, 176262	Work type buffer*	25 metres
Confirmed location	472556 176139		
Site Contact Name	Not Supplied	Site Phone No	Not Supplied
Description of Works			

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



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.

Notes. Please ensure your contact details are correct and up to date on the system in case the LSBUD Members need to contact you.

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.

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
Scottish and Southern Electricity Networks	08000483516	08000727282	Await response
SGN	08009121722	0800111999	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	Balfour Beatty Investments Limited	BOC Limited (A Member of the Linde Group)
Box Broadband	BP Exploration Operating Company Limited	BPA
Cadent Gas	Carrington Gas Pipeline	CATS Pipeline c/o Wood Group PSN
Cemex	Centrica Storage Ltd	CNG Services Ltd
Concept Solutions People Ltd	ConocoPhillips (UK) Teesside Operator Ltd	D.S.Smith
Diamond Transmission Corporation	DIO (MOD Abandoned Pipelines)	DIO (MOD Live Pipelines)
E.ON UK CHP Limited	EirGrid	Electricity North West Limited
ENI & Himor c/o Penspen Ltd	EnQuest NNS Limited	EP Langage Limited
ESP Utilities Group	ESSAR	Esso Petroleum Company Limited
euNetworks Fiber UK Ltd	EXA Infrastructure	Exolum Pipeline System
Fulcrum Pipelines Limited	Gamma	Gas Networks Ireland (UK)
Gateshead Energy Company	Gigaclear Ltd	Harbour Energy
Heathrow Airport LTD	Humbly Grove Energy	IGas Energy
INEOS FPS Pipelines	INEOS Manufacturing (Scotland and TSEP)	INOVYN ChlorVinyls Limited
INOVYN Enterprises Limited	Intergen (Coryton Energy or Spalding Energy)	Jurassic Fibre Ltd
Last Mile	Mainline Pipelines Limited	Manchester Jetline Limited
Manx Cable Company	Marchwood Power Ltd (Gas Pipeline)	Melbourn Solar Limited
Murphy Utility Assets	National Grid Electricity Transmission	National Grid Gas Transmission
Neos Networks	Northumbrian Water Group	NPower CHP Pipelines
NTT Global Data Centers EMEA UK Ltd	NYnet Ltd	Oikos Storage Limited
Ørsted	Palm Paper Ltd	Perenco UK Limited (Purbeck Southampton Pipeline)
Petroineos	Phillips 66	Portsmouth Water
Premier Transmission Ltd (SNIP)	Redundant Pipelines - LPDA	RWE - Great Yarmouth Pipeline (Bacton to Great Yarmouth Power Station)
RWEnpower (Little Barford and South Haven)	SABIC UK Petrochemicals	SAS Utility Services Ltd
Scottish Power Generation	Seabank Power Ltd	SES Water
Shell	Shell NOP	SSE Generation Ltd
SSE Transmission	SSE Utility Solutions Limited	Tata Communications (c/o JSM Construction Ltd)
Total Colnbrook Pipelines	Total Finaline Pipelines	Transmission Capital

UK Power Networks	Uniper UK Ltd	University of Cambridge Granta Backbone Network
Vattenfall	Veolia ES SELCHP Limited	Veolia ES Sheffield Ltd
VPI Power Limited	Wales and West Utilities	West of Duddon Sands Transmission Ltd
Western Power Distribution	Westminster City Council	Zayo Group UK Ltd c/o JSM Group Ltd

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	08000232023	Not Notified
CenturyLink Communications UK Limited	plantenquiries@instalcom.co.uk	02087314613	Not Notified
CityFibre	asset.team@cityfibre.com	033 3150 7282	Not Notified
Colt	plantenquiries@catelecomuk.com	01227768427	Not Notified
ENGIE	nrsua.uk@engie.com	01293 549944	Not Notified
GTC	https://pe.gtc-uk.co.uk/PlantEnqMembership	01359240363	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
Sota	SOTA.plantenquiries@instalcom.co.uk		Not Notified
Teliasonera	check-network@teliacompany.com	0800526015	Not Notified
Thames Water	http://www.digdat.co.uk	08450709145	Not Notified
Utility assets Ltd	assetrecords@utilityassets.co.uk		Not Notified
Verizon Business	osp-team@uk.verizonbusiness.com	01293611736	Not Notified
Virgin Media	http://www.digdat.co.uk	08708883116	Not Notified
Vodafone	osm.enquiries@atkinsglobal.com	01454662881	Not Notified

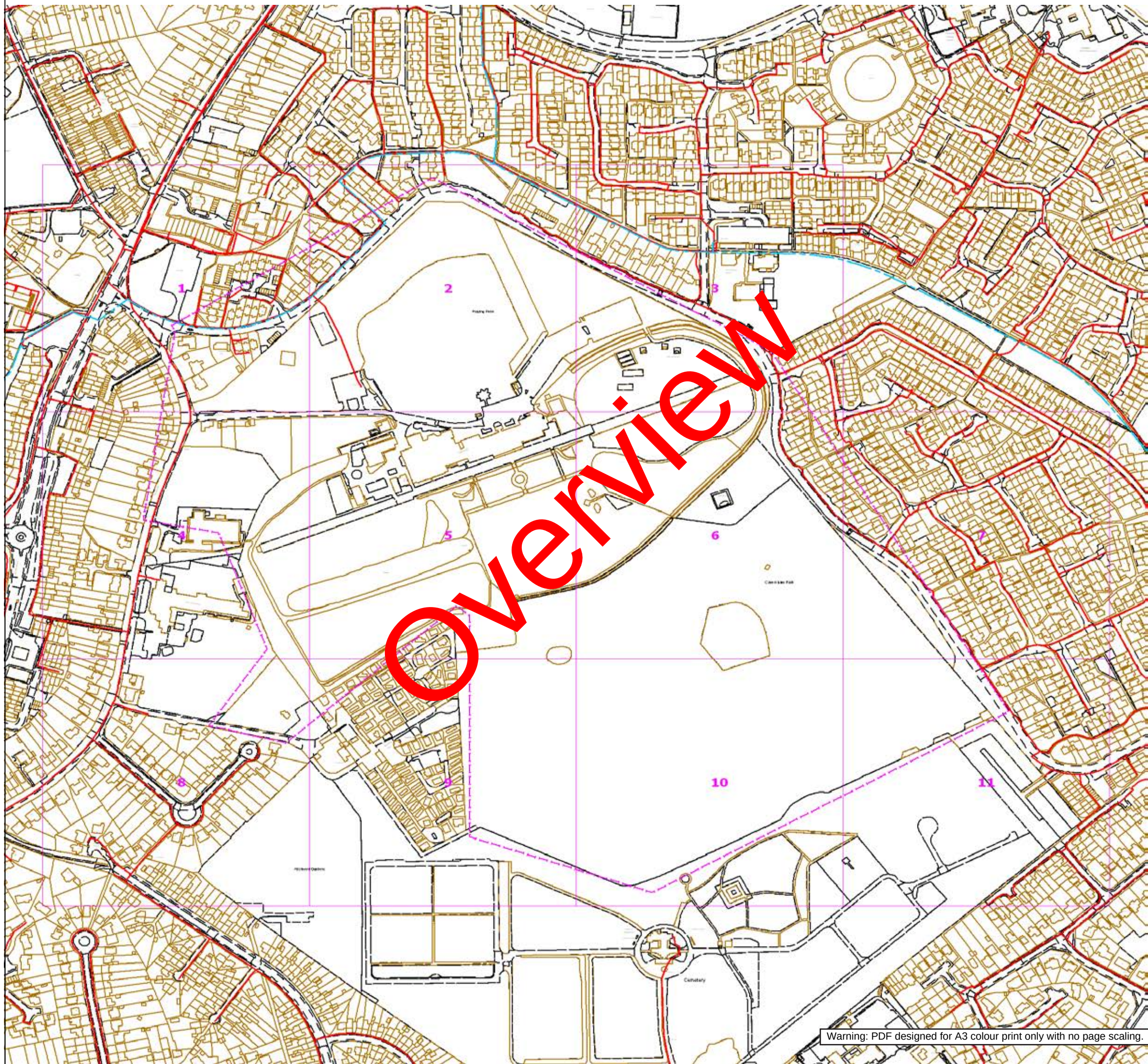
Disclaimer

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Appendix E

Service Records – SNG (Gas)



SGN
Your gas. Our network.

Contact Us

Mapping Enquiries:
All areas

General Enquiries:
All areas

Date Requested: 09/11/2021
Job Reference: 23827726
Site Location: 472560 176174
Requested by:
Ms Debbie Wigston
Your Scheme/Reference:
8210940

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

Low Pressure Mains	
Medium Pressure Mains	
Intermediate Pressure Mains	
High Pressure Mains	
LAs	
GTs	
SSSIs	

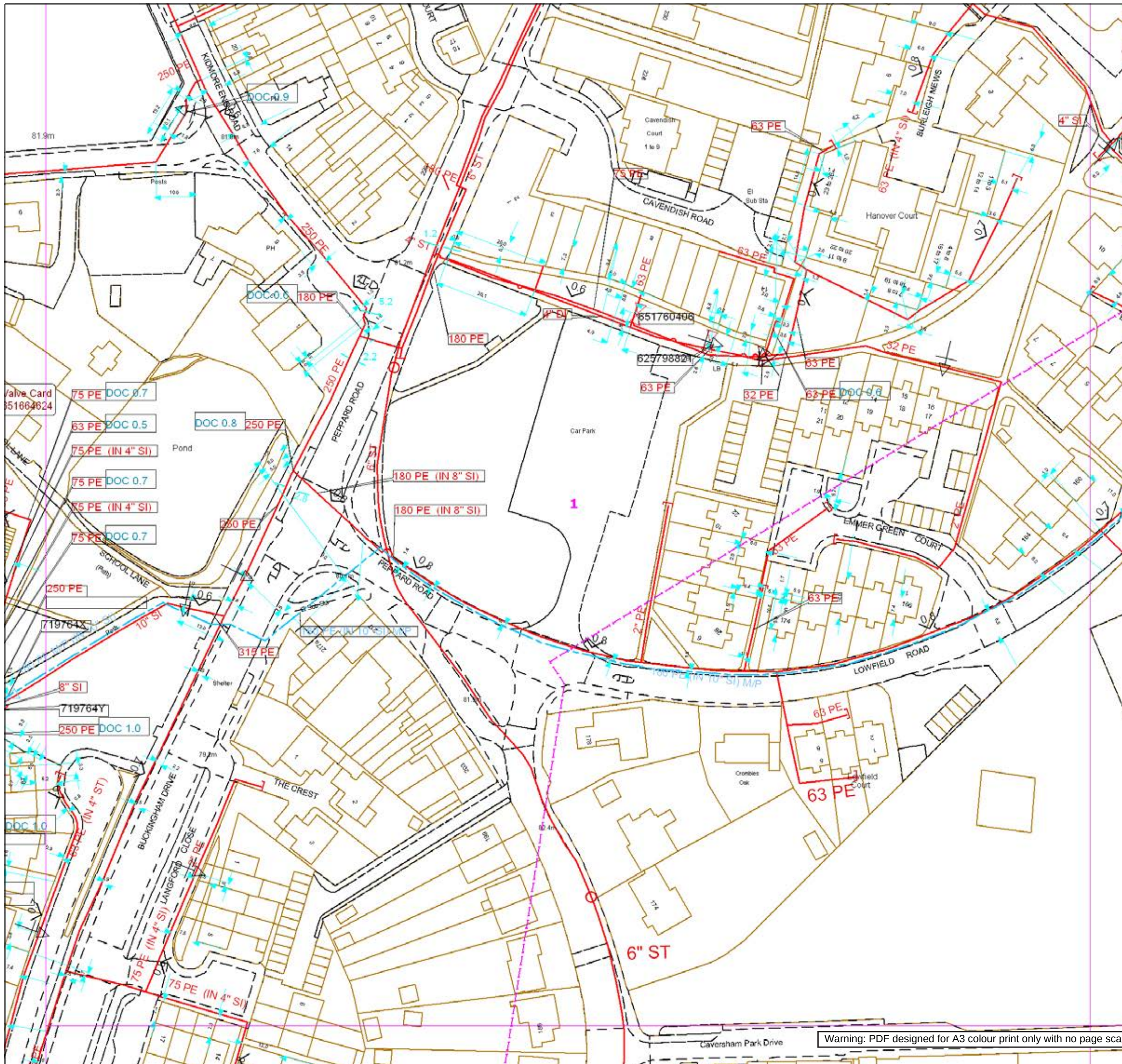
Some Examples Of Plant Items

Valve		Syphon		Depth of Cover		Diameter Change		Material Change	
-------	--	--------	--	----------------	--	-----------------	--	-----------------	--

Digsite: Line: Area:



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SGN
Your gas. Our network.

Contact Us

Mapping Enquiries:
All areas

General Enquiries:
All areas

Date Requested: 09/11/2021
Job Reference: 23827726
Site Location: 472560 176174
Requested by:
Ms Debbie Wigston
Your Scheme/Reference:
8210940
Exact Scales:
1:1000 Area or Circle dig site
1:1000 Line dig site

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0800 111 999

Low Pressure Mains

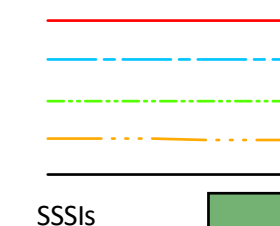
Medium Pressure Mains

Intermediate Pressure Mains

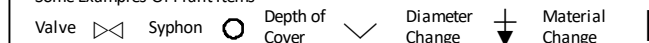
High Pressure Mains

LAs

GTs



Some Examples Of Plant Items

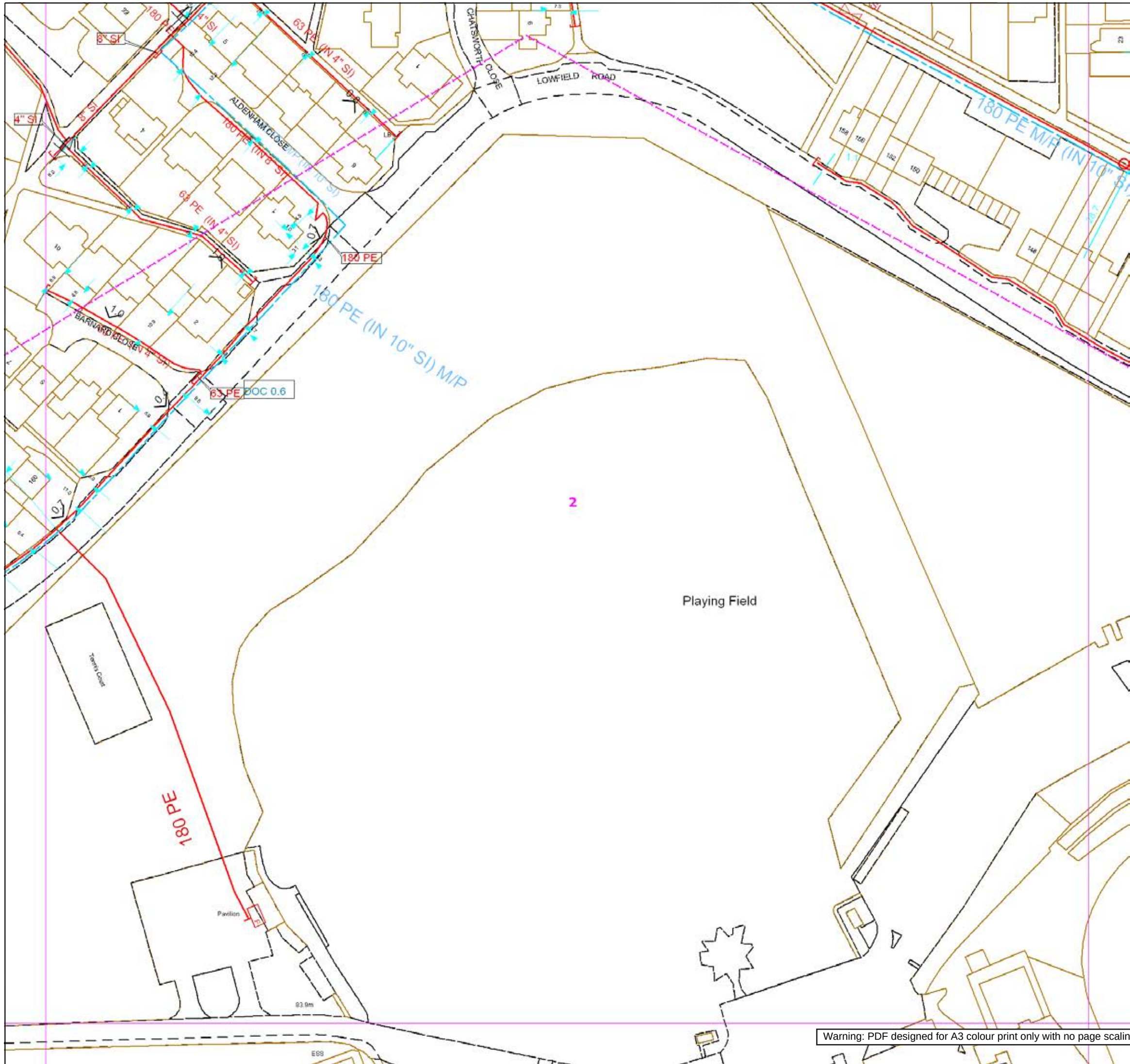


Digsite: Line: Area:



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Warning: PDF designed for A3 colour print only with no page scaling.



Contact Us

Mapping Enquiries:
All areas

General Enquiries:
All areas

Date Requested: 09/11/2021
Job Reference: 23827726
Site Location: 472560 176174
Requested by:
Ms Debbie Wigston
Your Scheme/Reference:
8210940
Exact Scales:
1:1000 Area or Circle dig site
1:1000 Line dig site

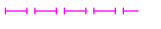
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Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA
0800 111 999

Low Pressure Mains ————
Medium Pressure Mains ————
Intermediate Pressure Mains ————
High Pressure Mains ————

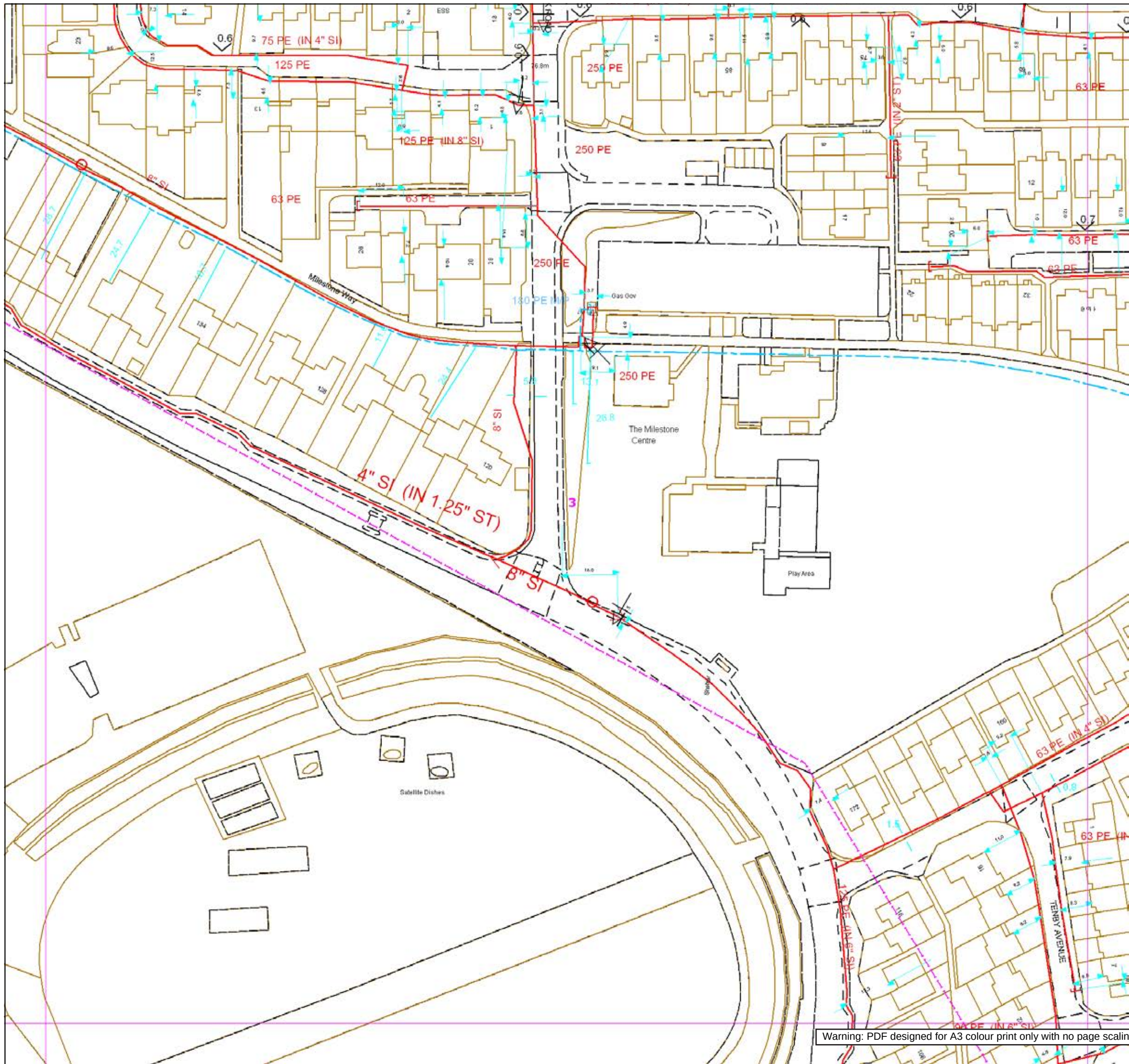
LAs
GTs  SSSIs 

Some Examples Of Plant Items
Valve  Syphon  Depth of Cover  Diameter Change  Material Change 

Digsite: Line:  Area: 



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Contact Us
Mapping Enquiries: All areas
General Enquiries: All areas

Date Requested: 09/11/2021
Job Reference: 23827726
Site Location: 472560 176174
Requested by:
Ms Debbie Wigston
Your Scheme/Reference:
8210940
Exact Scales:
1:1000 Area or Circle dig site
1:1000 Line dig site

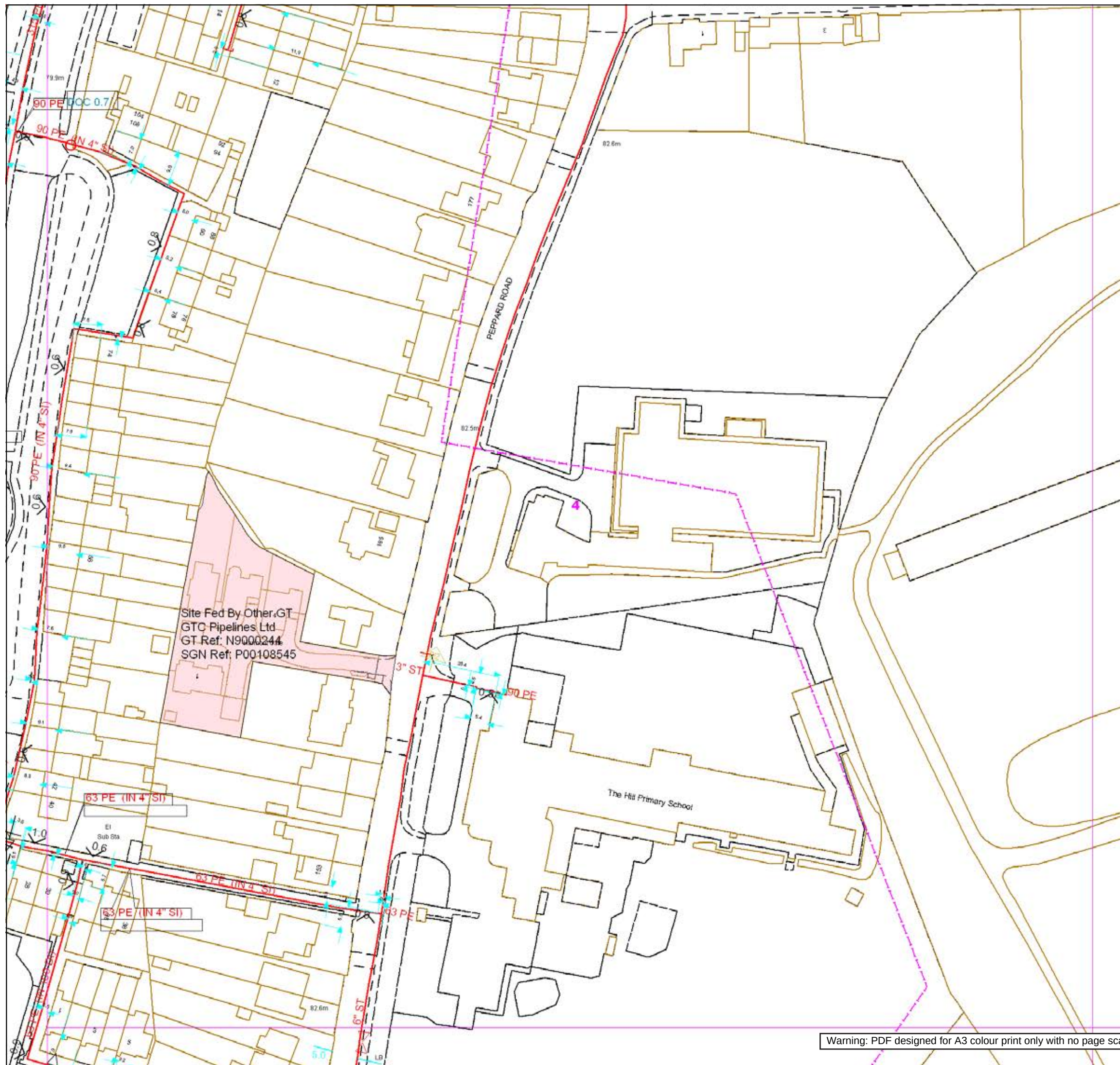
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Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA
0800 111 999

Low Pressure Mains ————
Medium Pressure Mains - - - - -
Intermediate Pressure Mains - . - . -
High Pressure Mains - . - . - .
LAs ————
GTs ———— SSSIs ————
Some Examples Of Plant Items
Valve ⊞ Syphon ○ Depth of Cover ∨ Diameter Change + Material Change |
Digsite: Line: ———— Area: ————



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Contact Us
Mapping Enquiries:
All areas

General Enquiries:
All areas

Date Requested: 09/11/2021
Job Reference: 23827726
Site Location: 472560 176174
Requested by:
Ms Debbie Wigston
Your Scheme/Reference:
8210940
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

Low Pressure Mains

Medium Pressure Mains

Intermediate Pressure Mains

High Pressure Mains

LAs

GTs

SSSIs

Some Examples Of Plant Items

Valve

Syphon

Depth of Cover

Diameter Change

Material Change

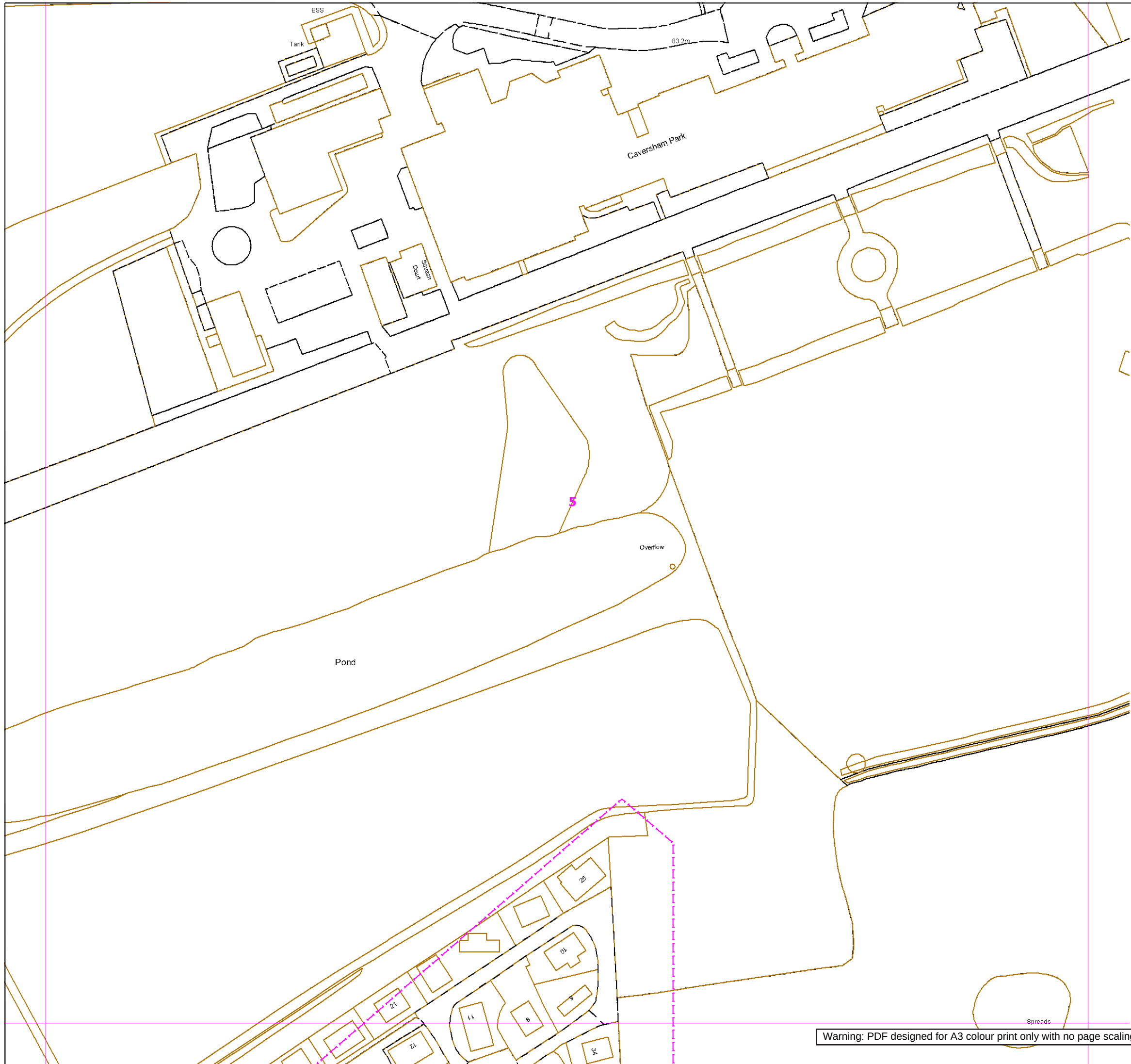
Digsite:

Line:

Area:



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SGN
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Contact Us

Mapping Enquiries:
All areas

General Enquiries:
All areas

Date Requested: 09/11/2021
Job Reference: 23827726
Site Location: 472560 176174
Requested by:
Ms Debbie Wigston
Your Scheme/Reference:
8210940
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

Low Pressure Mains	
Medium Pressure Mains	
Intermediate Pressure Mains	
High Pressure Mains	
LAs	
GTs	
SSSIs	

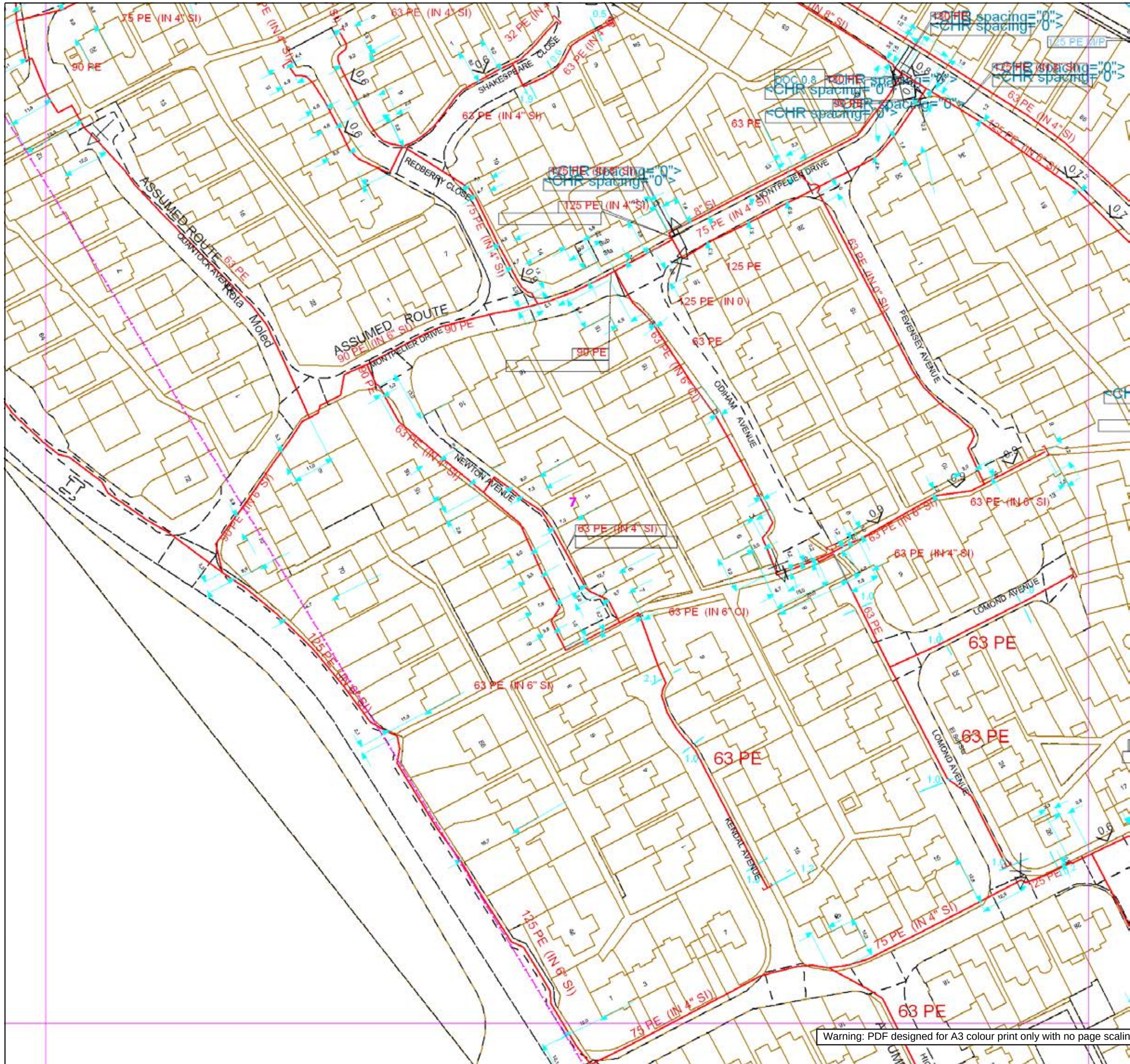
Some Examples Of Plant Items

Valve		Syphon		Depth of Cover		Diameter Change		Material Change	
-------	--	--------	--	----------------	--	-----------------	--	-----------------	--

Digsite: Line: Area:



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SGN
Your gas. Our network.

Contact Us

Mapping Enquiries:
All areas

General Enquiries:
All areas

Date Requested: 09/11/2021
Job Reference: 23827726
Site Location: 472560 176174
Requested by:
Ms Debbie Wigston
Your Scheme/Reference:
8210940
Exact Scales:
1:1000 Area or Circle dig site
1:1000 Line dig site

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0800 111 999

Low Pressure Mains ————
Medium Pressure Mains ————
Intermediate Pressure Mains ————
High Pressure Mains ————

LAs ————
GTs ———— SSSIs ————

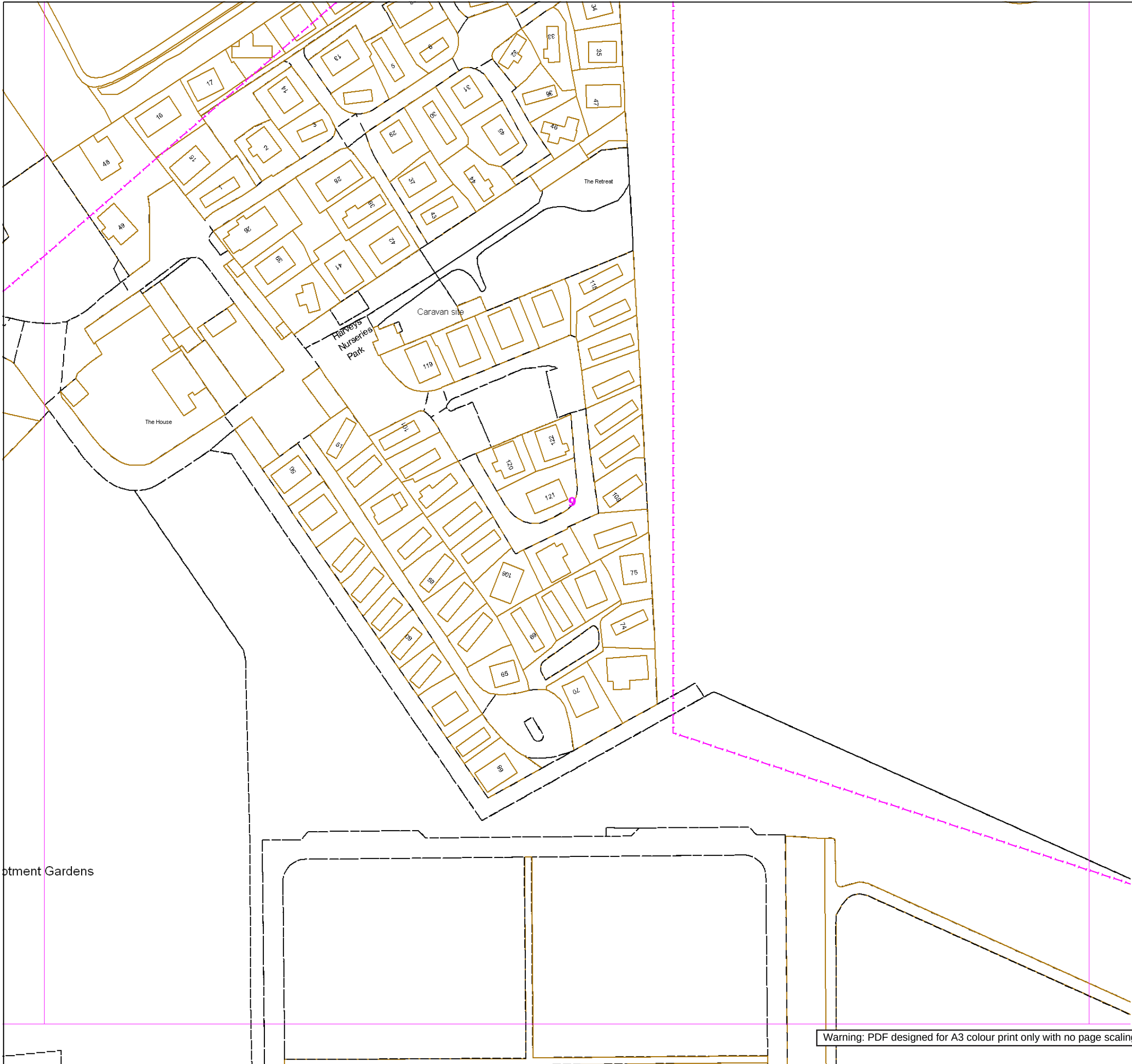
Some Examples Of Plant Items
Valve — Syphon — Depth of Cover — Diameter Change — Material Change —

Digsite: Line: ———— Area: ————



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SGN
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Contact Us

Mapping Enquiries:
All areas

General Enquiries:
All areas

Date Requested: 09/11/2021
Job Reference: 23827726
Site Location: 472560 176174
Requested by:
Ms Debbie Wigston
Your Scheme/Reference:
8210940
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

Low Pressure Mains	
Medium Pressure Mains	
Intermediate Pressure Mains	
High Pressure Mains	
LAs	
GTs	
SSSIs	

Some Examples Of Plant Items

Valve		Syphon		Depth of Cover		Diameter Change		Material Change	
-------	--	--------	--	----------------	--	-----------------	--	-----------------	--

Digsite: Line: Area:



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General Enquiries:
All areas

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Low Pressure Mains
Medium Pressure Mains
Intermediate Pressure Mains
High Pressure Mains
LAs
GTs

SSSIs

Some Examples Of Plant Items

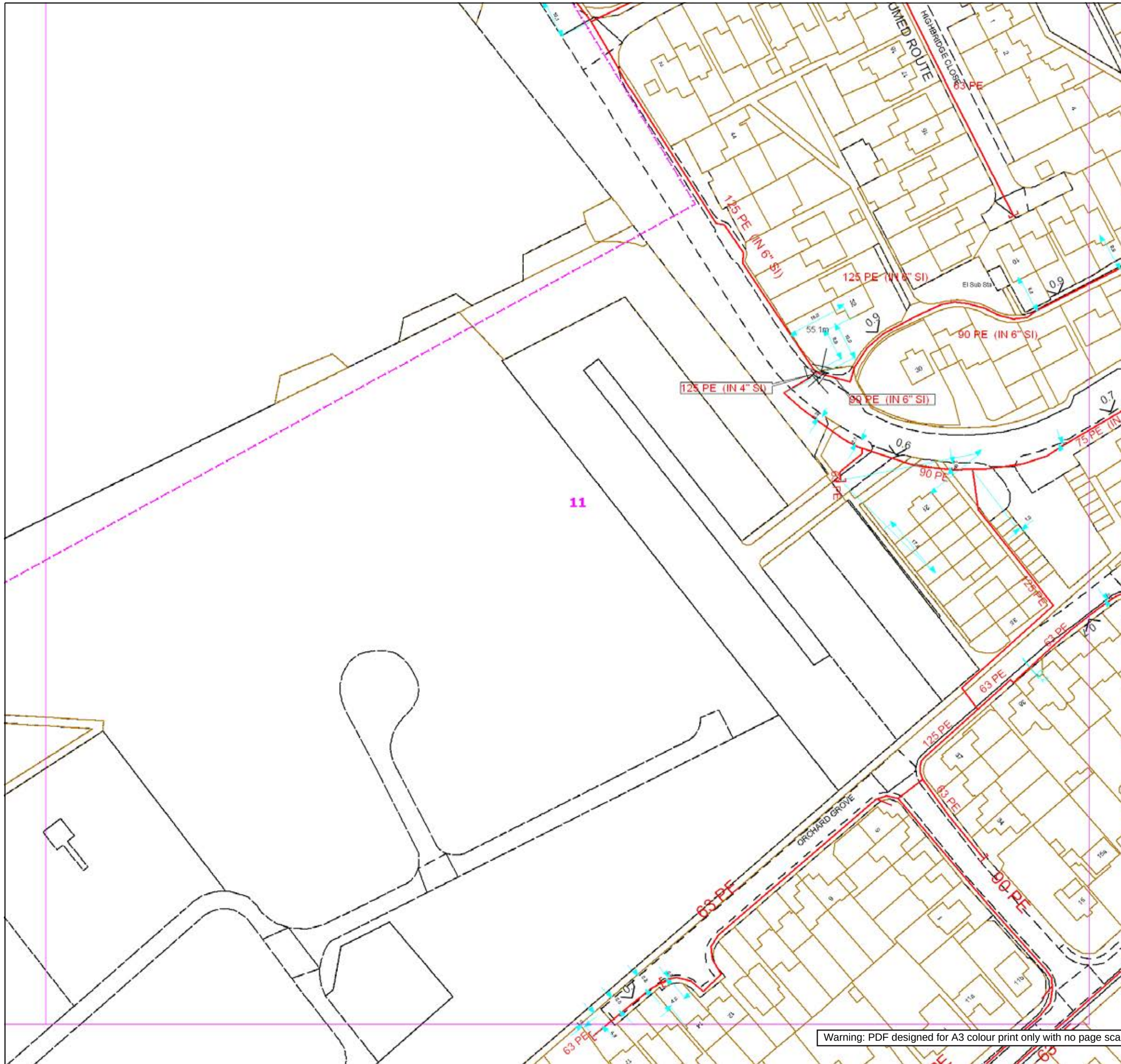
Valve		Syphon		Depth of Cover		Diameter Change		Material Change	
-------	---	--------	---	----------------	---	-----------------	---	-----------------	---

Digsite: Line: Area:



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SGN
Your gas. Our network.

Contact Us

Mapping Enquiries:
All areas

General Enquiries:
All areas

Date Requested: 09/11/2021
Job Reference: 23827726
Site Location: 472560 176174
Requested by:
Ms Debbie Wigston
Your Scheme/Reference:
8210940
Exact Scales:
1:1000 Area or Circle dig site
1:1000 Line dig site

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0800 111 999

Low Pressure Mains

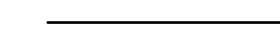
Medium Pressure Mains

Intermediate Pressure Mains

High Pressure Mains

LAs

GTs



Some Examples Of Plant Items

Valve



Syphon



Depth of Cover



Diameter Change



Material Change

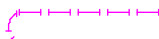


Digsite:

Line:



Area:

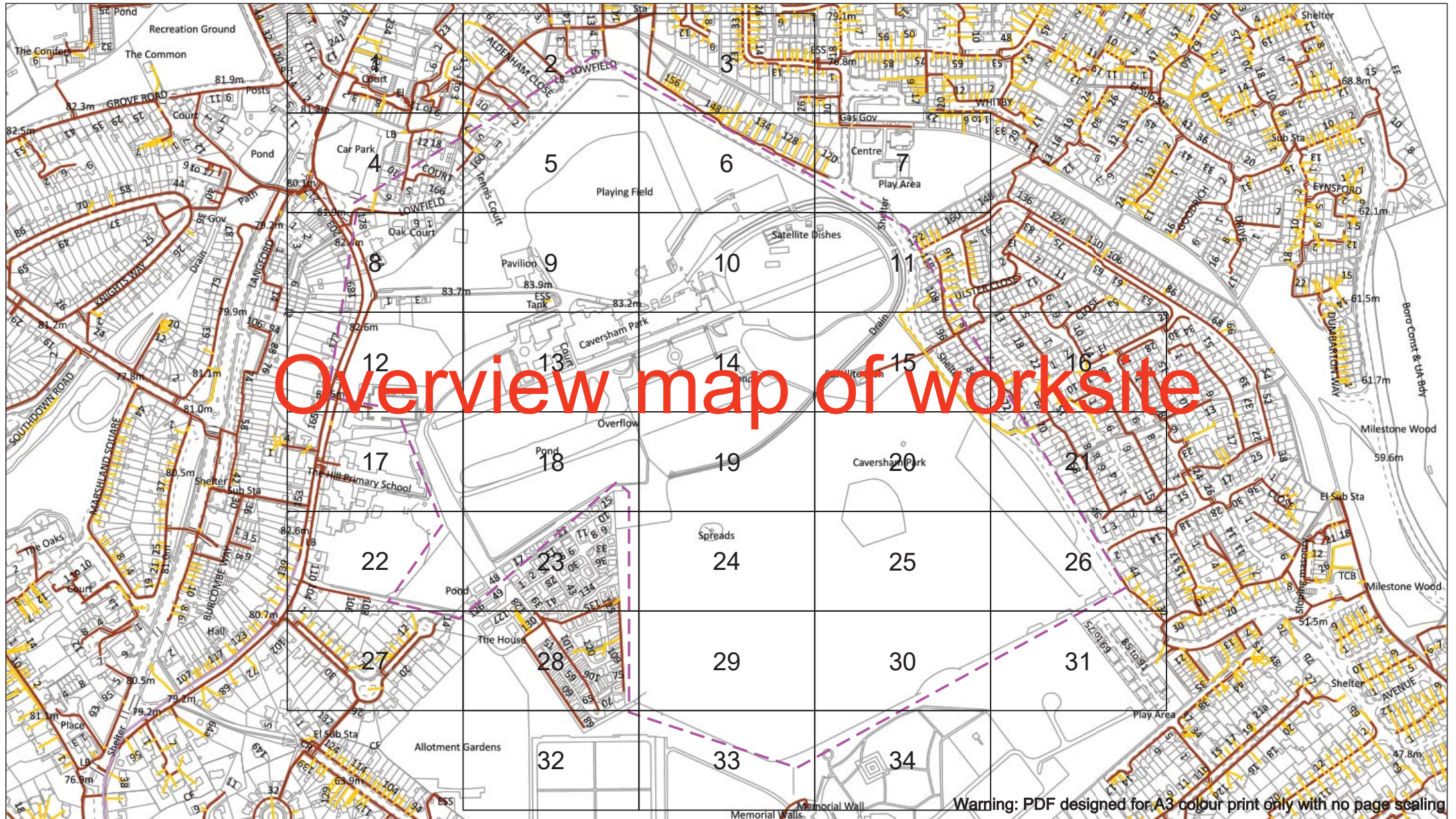


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Appendix F

Service Records - Scottish and Southern Electricity Networks (Electricity)



Warning: PDF designed for A3 colour print only with no page scaling

Date Requested: 09/11/2021
Job Reference: 23827726
Site Location: 472556 176139
Requested by:
Ms Debbie Wigston
Your Scheme/Reference:
8210940

Scale: 1:4100 (When plotted at A3)

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 GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

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
- Flow Duct
- Pile Cable

Distribution Structures (Electric)

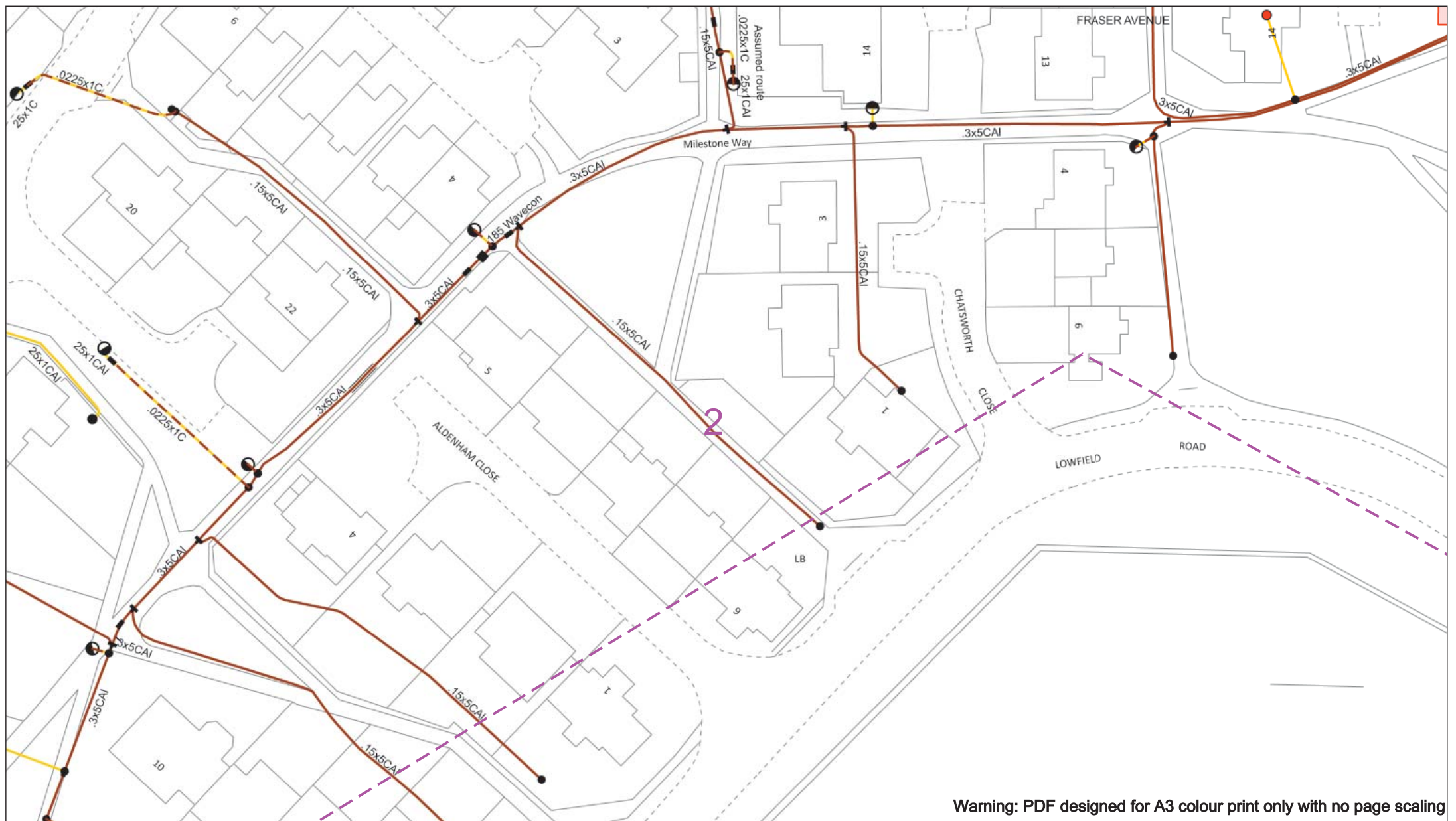
- Pole, Existing Location
- Pole Structure, Existing Location - Single
- Pole Structure, Existing Location - H
- Duct Route
- Cross Section Route



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

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:
AssetData@ssen.com
01256 337 294



0 50m

Dig Sites Area: Line:

Date Requested: 09/11/2021
Job Reference: 23827726
Site Location: 472556 176139
Requested by:
Ms Debbie Wigston
Your Scheme/Reference: 8210940

WARNING

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WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

Voltages (V)				
LV (Low Voltage) and Services	Up to 1,000V			
LV Mains	Over 1,000V to 11,000V			
HV (High Voltage)	22,000V to 132,000V			
EHV (Extra High Voltage)	275,000V and 400,000V			
Transmission	275,000V and 400,000V			

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
Services	LV	HV	EHV	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
- Flare Cable
- Pole Cable

Distribution Structures (Electric)

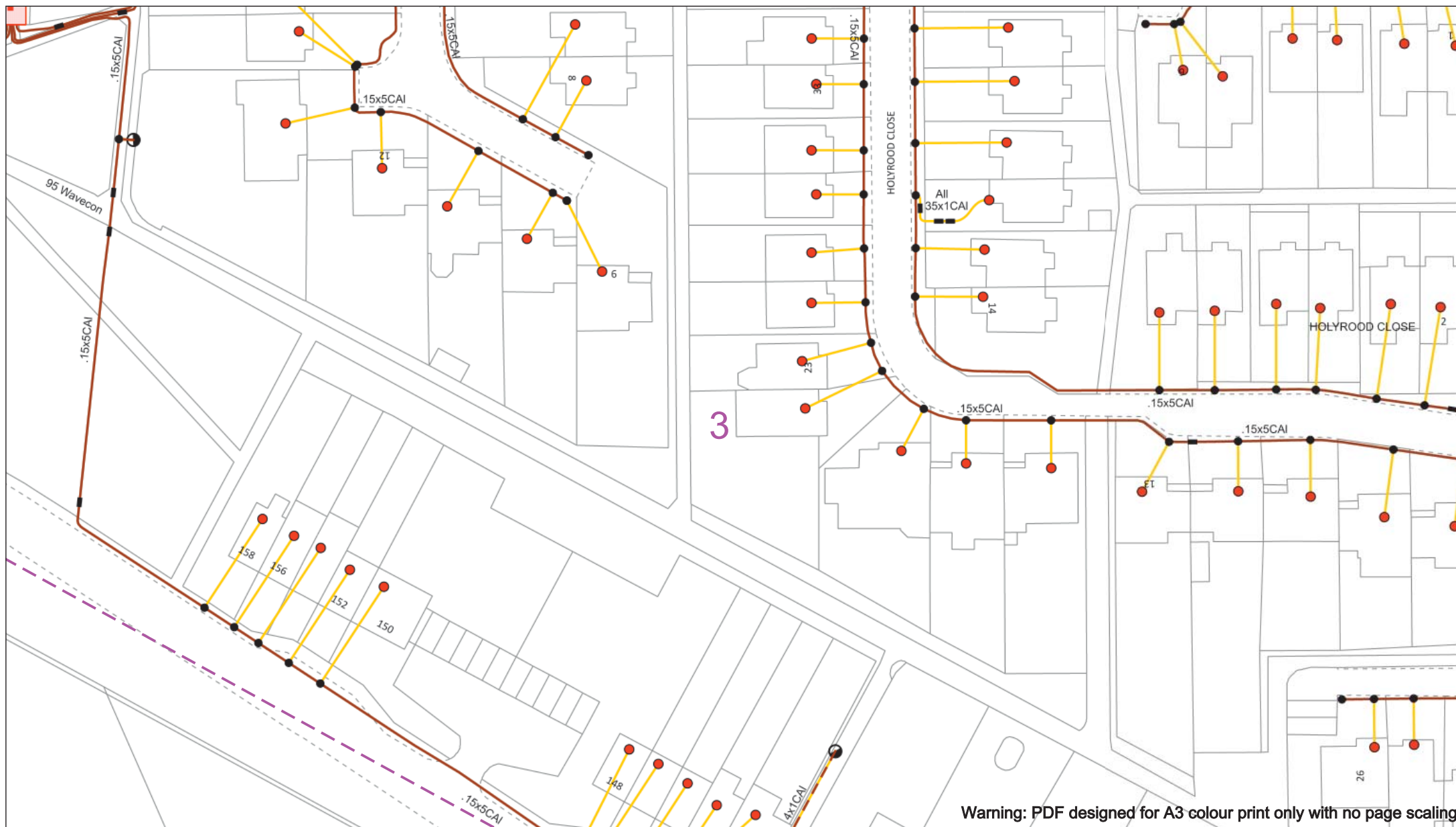
- Pole, Existing Location
- Pole Structure, Existing Location - Single
- Pole Structure, Existing Location - H
- Duct Route
- Cross Section Route

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

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

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AssetData@ssen.com
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050m

Dig Sites

Area:

Line:

Date Requested: 09/11/2021

Job Reference: 23827726

Site Location: 472556 176139

Requested by: Ms Debbie Wigston

Your Scheme/Reference: 8210940

WARNING

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Voltages (V)				
LV (Low Voltage) and Services	Up to 1,000V			
LV Mains	Over 1,000V to 11,000V			
HV (High Voltage)	22,000V to 132,000V			
EHV (Extra High Voltage)	275,000V and 400,000V			
Transmission				

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 - H

Duct Route

Cross Section Route

Southern Electric Power Distribution plc

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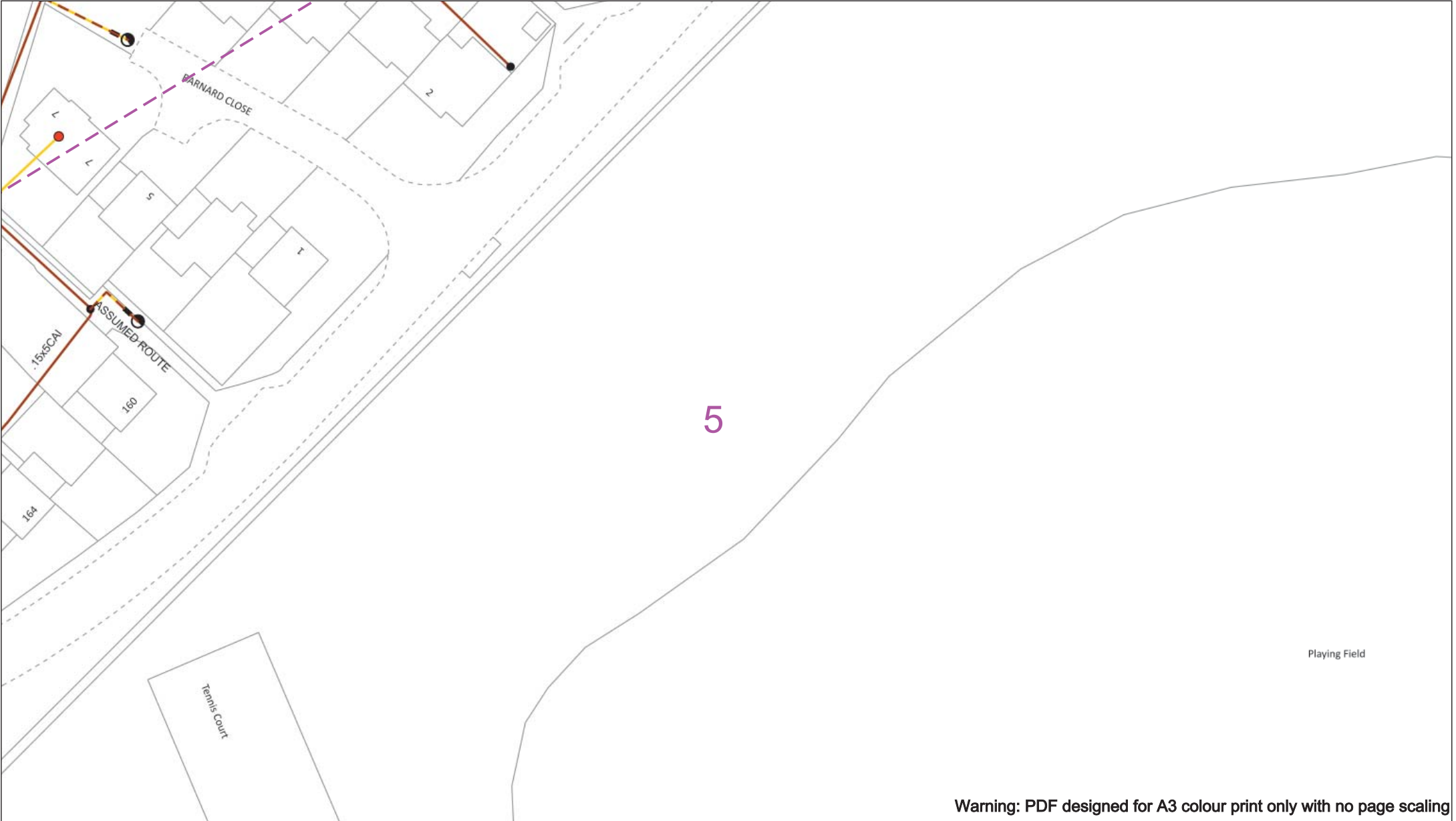
[Asset Data@ssen.com](#)

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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

Distribution Structures (Electric)

Pole, Existing Location

Pole Structure, Existing Location - Single

Pole Structure, Existing Location - H

Duct Route

Cross Section Route

Southern Electric Power Distribution plc

Registered Office: No.1 Forbury Place

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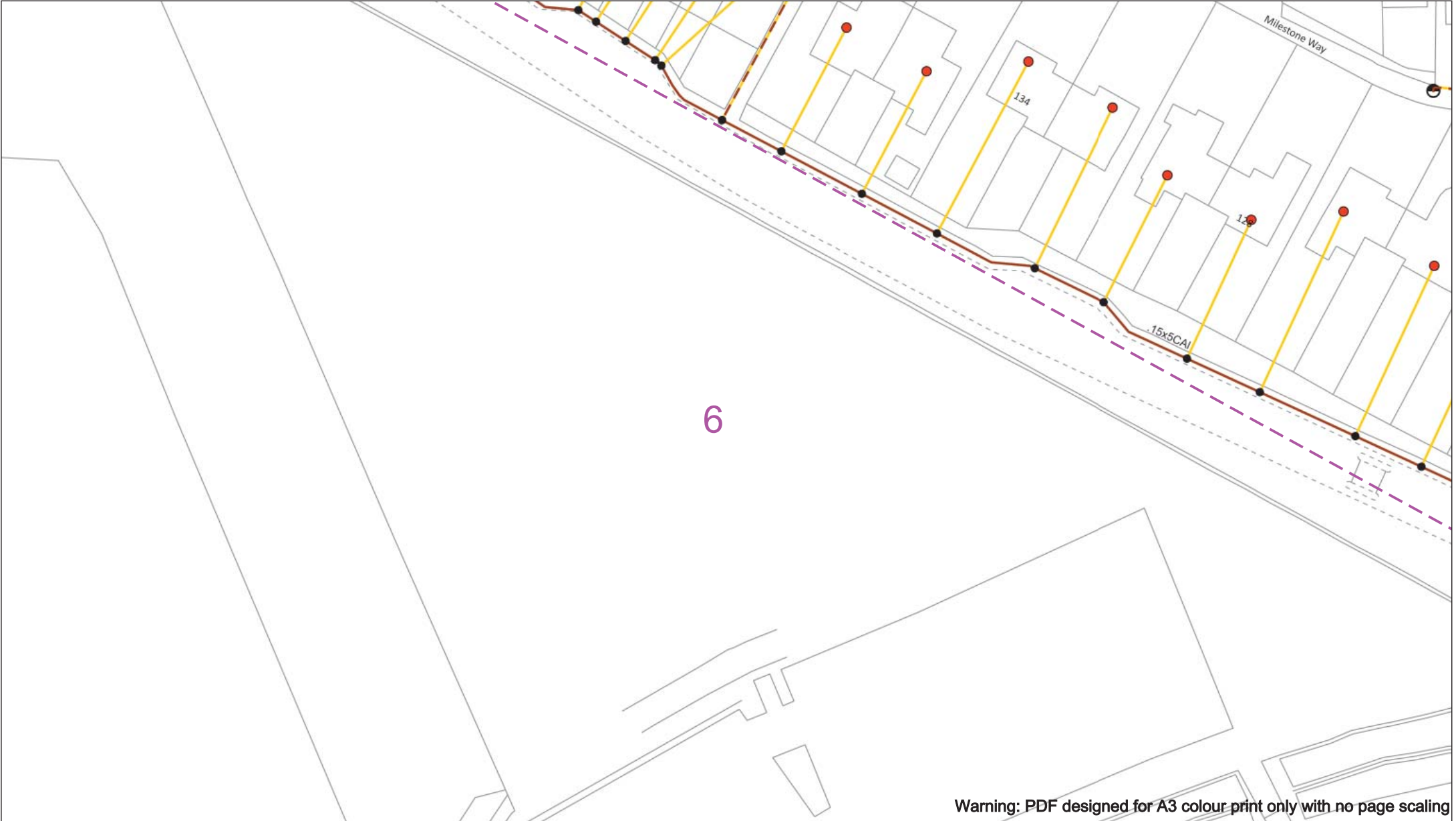
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EHV (Extra High Voltage)	22,000V to 132,000V			
Transmission	275,000V and 400,000V			

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 – 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 - H

Duct Route

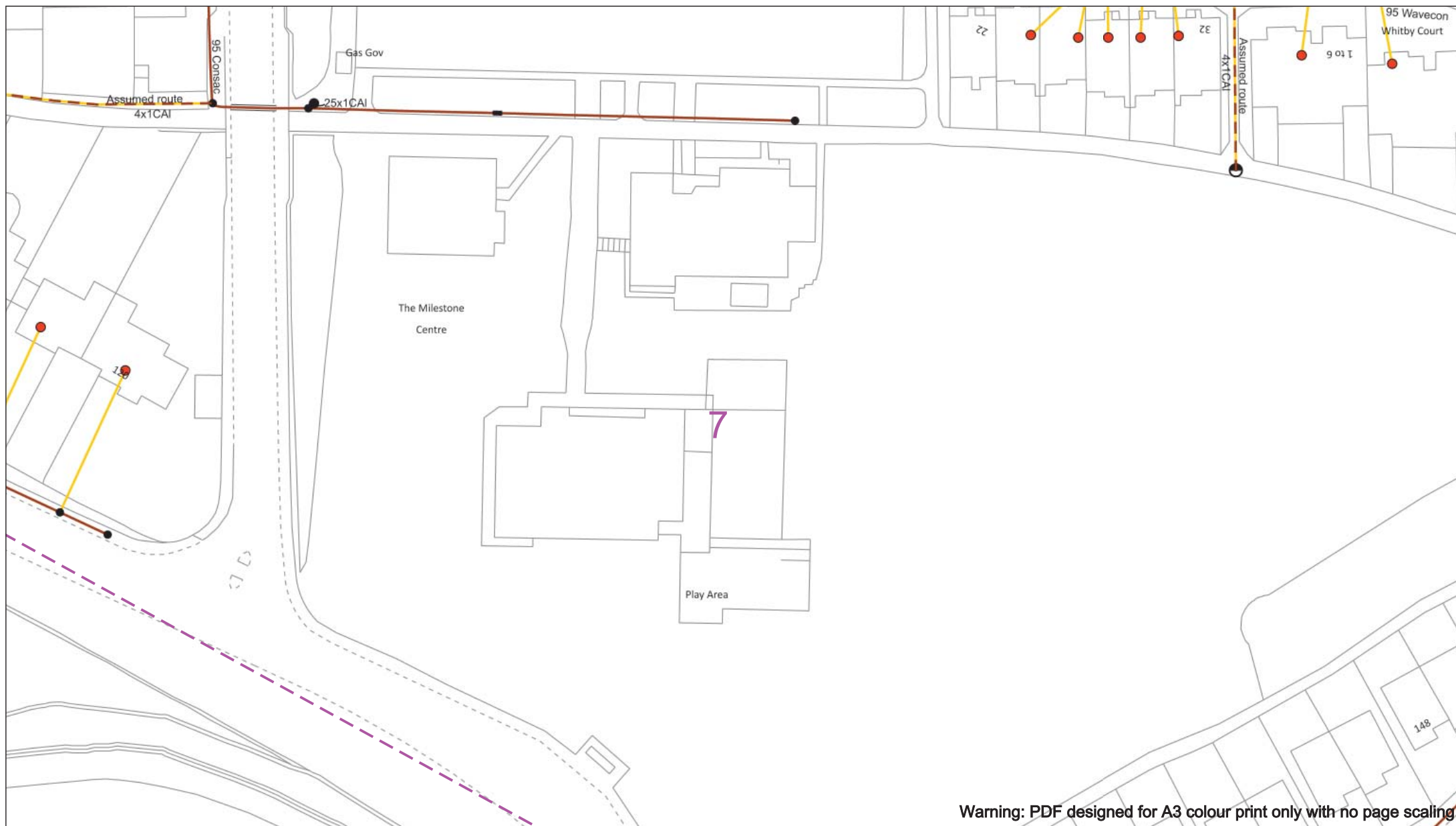
Cross Section Route

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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	0.6m	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
- Pile Cable

Distribution Structures (Electric)

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

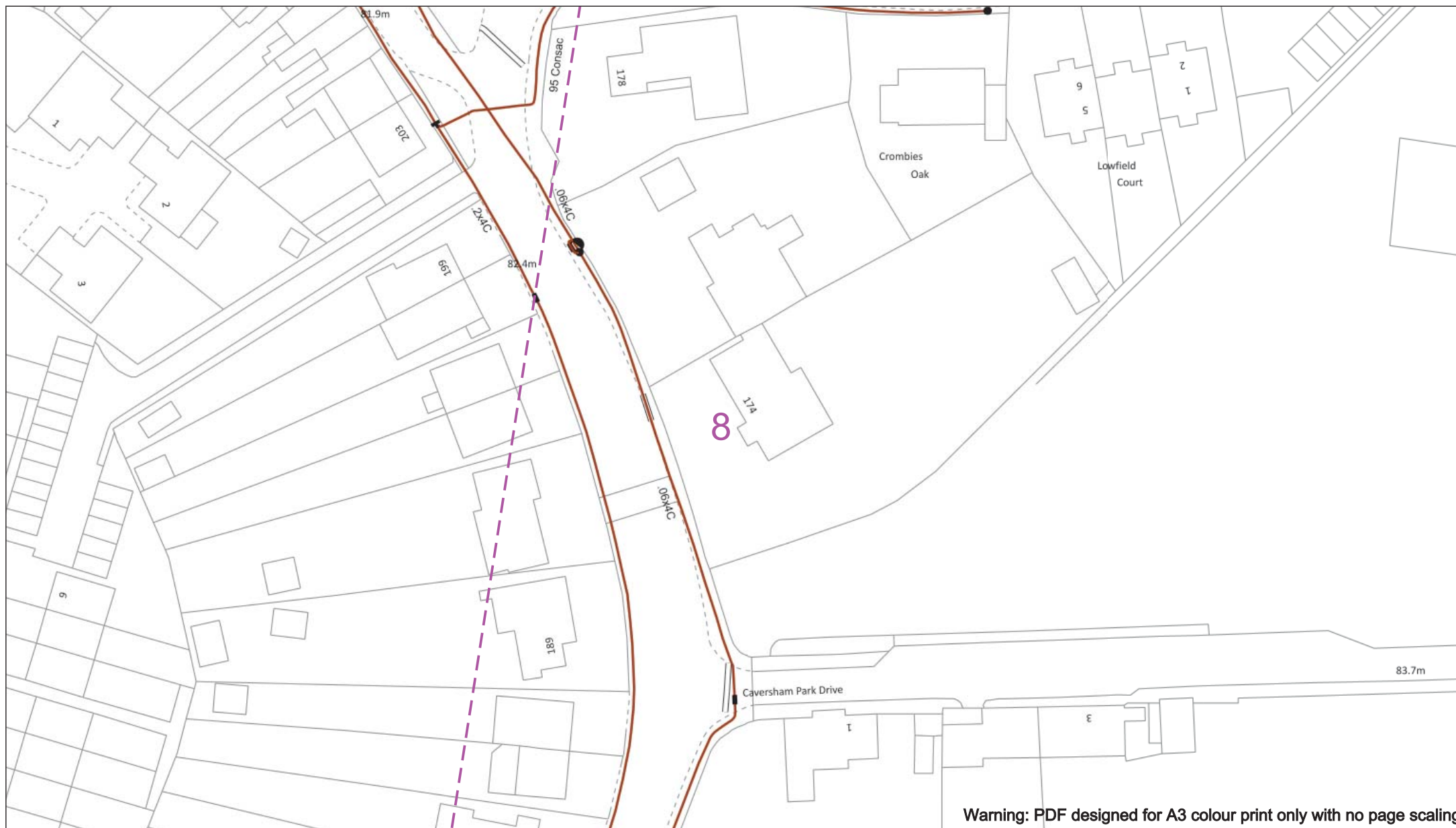
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Dig Sites Area:  Line: 

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Job Reference: 23827726
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Scale: 1:500 (When plotted at A3)

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	E
Footpath/Unmade	0.45m	0.45m	0.6m	0
Road Crossing	0.6m	0.6m	0.75m	0
Agricultural	1m	1m	1m	1

Legend

- Service Cable
- LV Mainline
- 2 - 3.3kV
- 5.5kV
- 11kV
- 22kV
- 33kV
- 66kV
- 132kV
- 275kV
- 400kV
- Fibre Optic
- Riser Cable

Distribution Structures [Electric]

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

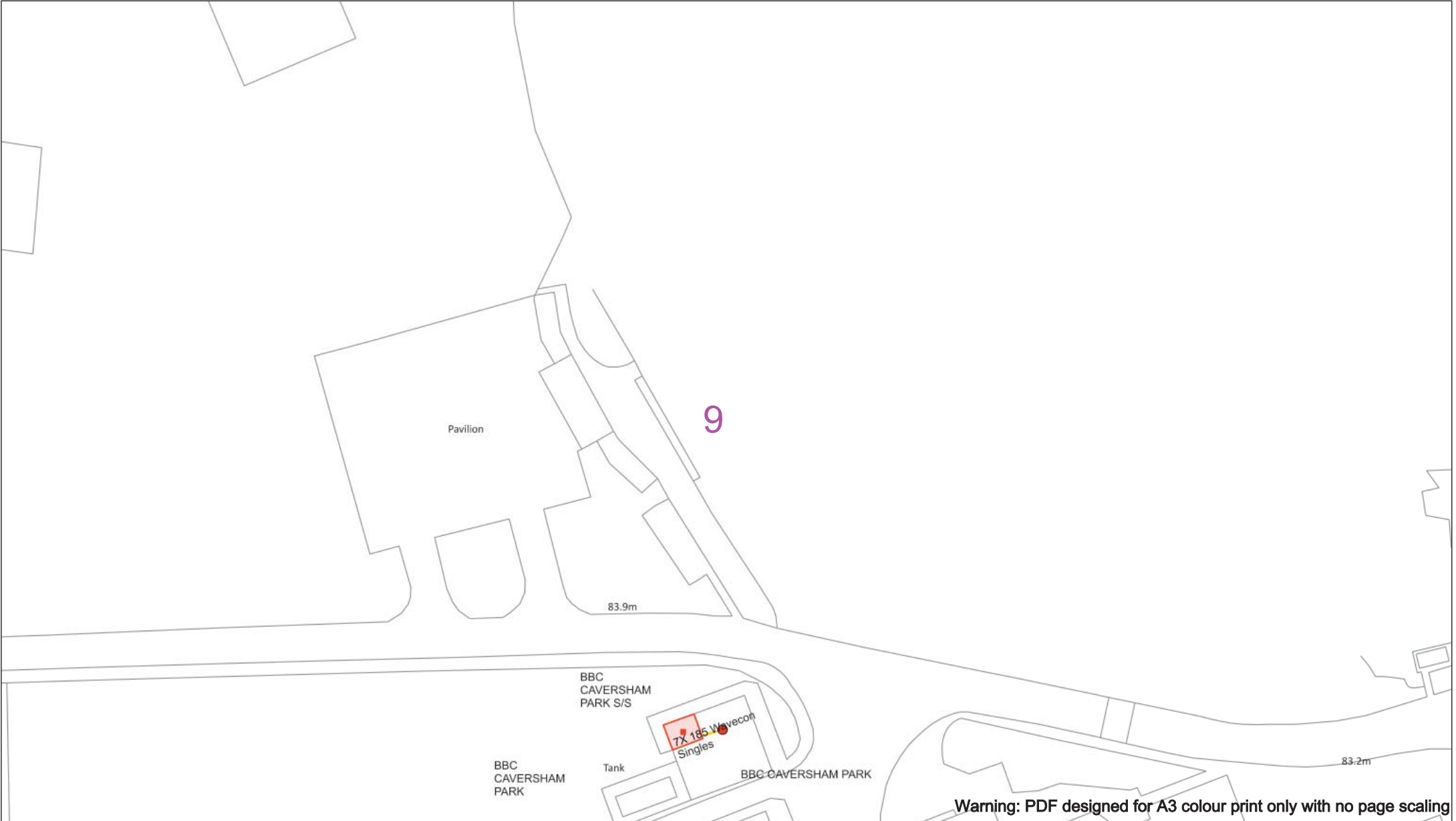


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Voltages (V)				
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HV (High Voltage)	Over 1,000V to 11,000V			
EHV (Extra High Voltage)	22,000V to 132,000V			
Transmission	275,000V and 400,000V			

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
Services	LV	HV	EHV	
Footpath/Unmade	0.45m	0.45m	0.6m	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 - H

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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Scale: 1:500 (When plotted at A3)

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 - H
- Duct Route
- Cross Section Route



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Dig Sites

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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	0.6m	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 - H

Duct Route

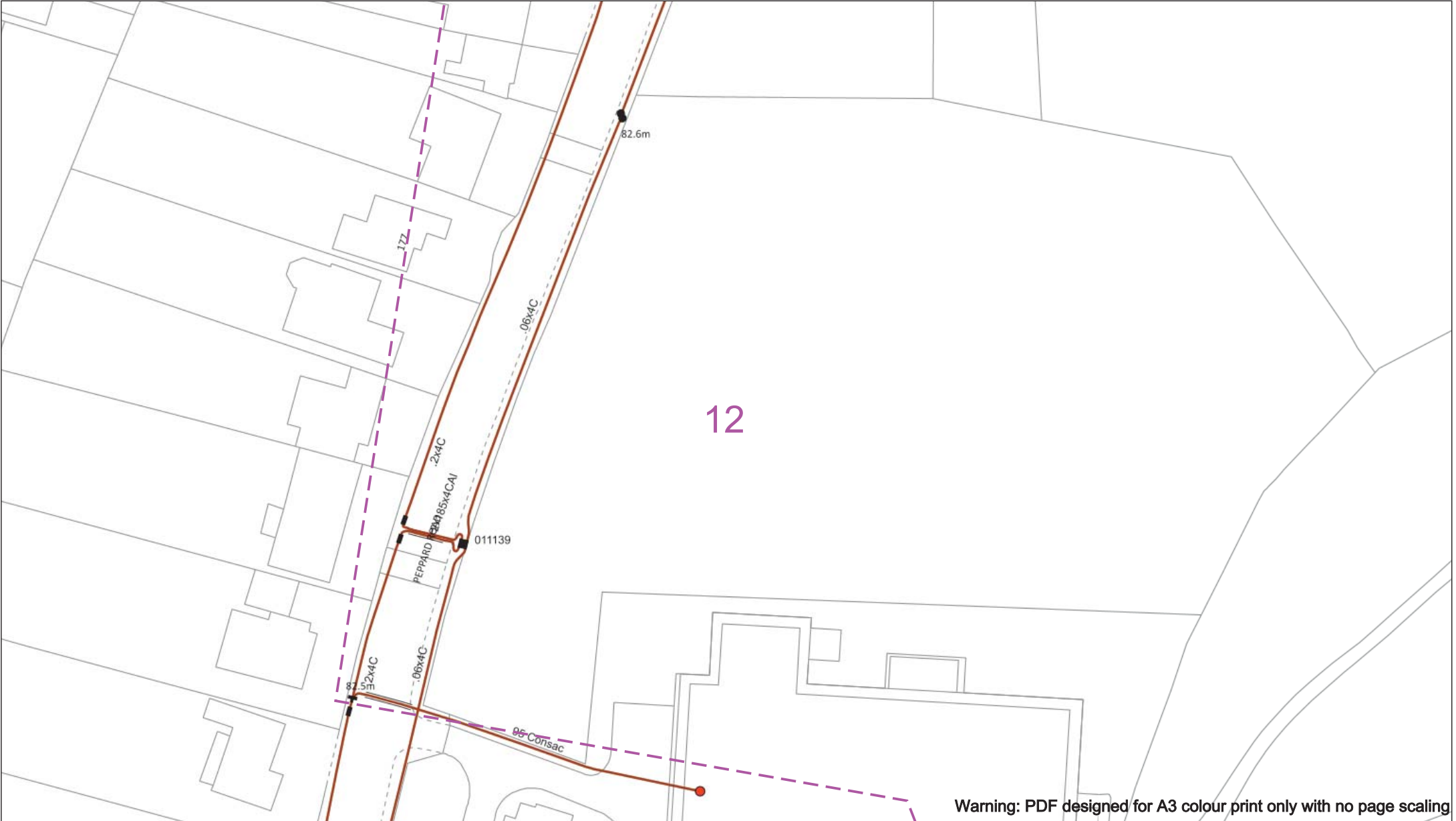
Cross Section Route

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43 Forbury Road Reading RG1 3JH
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0 50m

Dig Sites Area: Line:

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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
- 2-33kV
- 6.6kV
- 11kV
- 22kV
- 33kV
- 66kV
- 132kV
- 400kV
- Flow Cyclic
- Pole Cable

Distribution Structures (Electric)

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

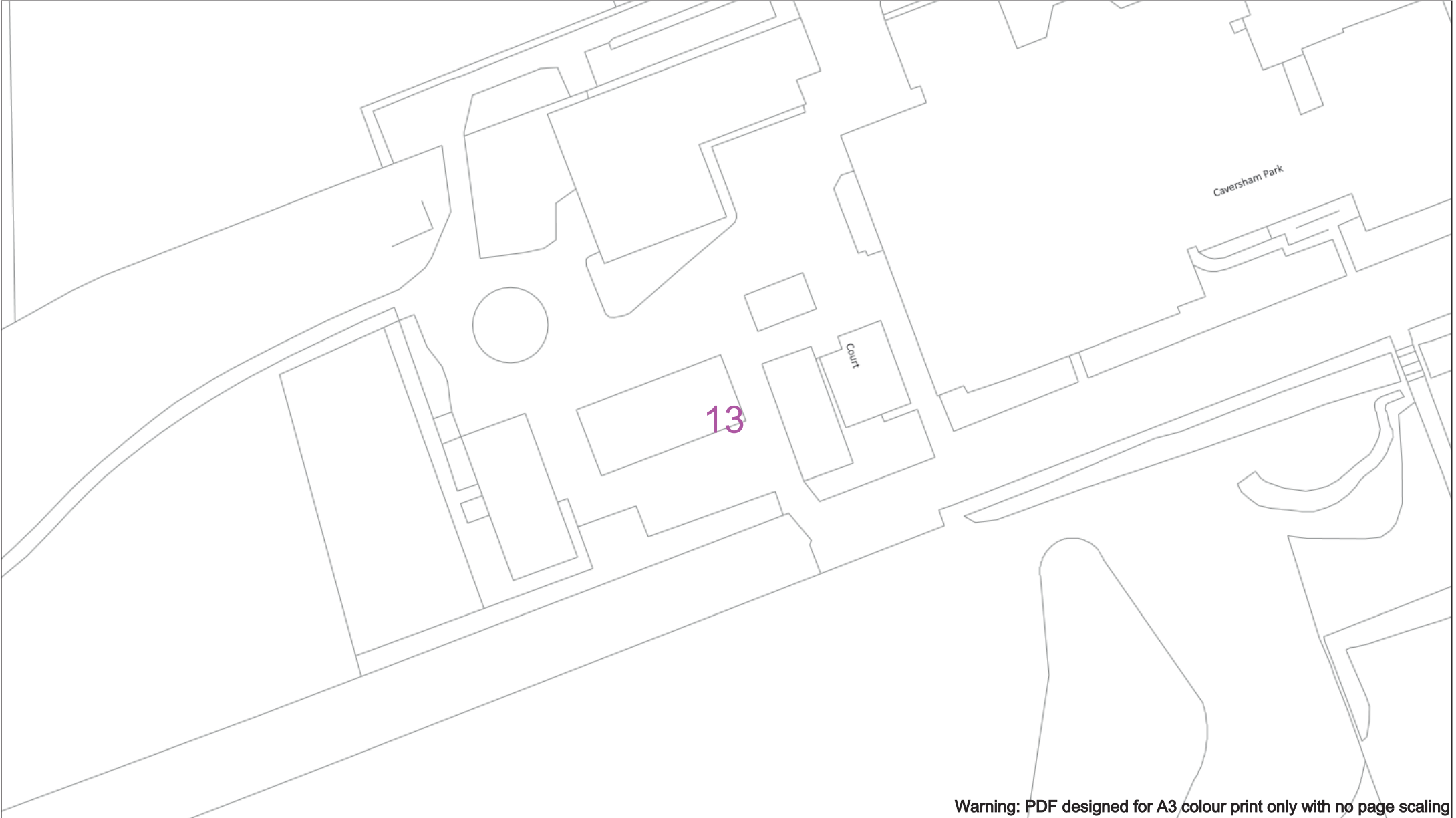
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Dig Sites

Area:

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Date Requested: 09/11/2021

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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	0.6m
Road Crossing	0.6m	0.6m	0.75m
Agricultural	1m	1m	1.1m

Legend

Service Cable

LV Mains

2 – 3.3kV

6.6kV

11kV

132kV

220kV

132kV

66kV

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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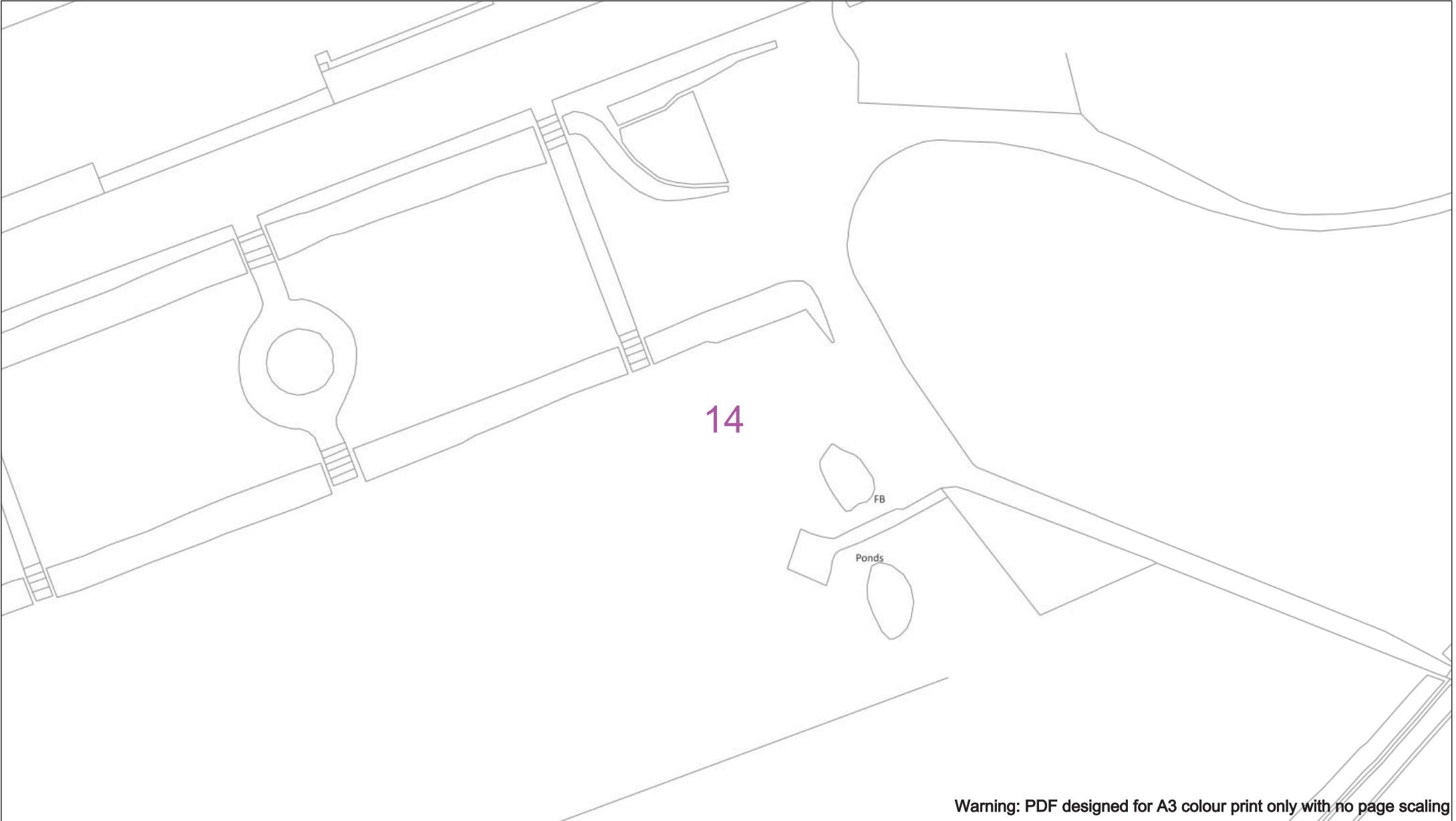
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050m

Dig Sites

Area: 

Line: 

Date Requested: 09/11/2021

Job Reference: 23827726

Site Location: 472556 176139

Requested by: Ms Debbie Wigston

Your Scheme/Reference: 8210940

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 GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

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

132kV

275kV

400kV

Flow Optic

Pole Cable

Distribution Structures (Electric)

Pole, Existing Location

Pole Structure, Existing Location - Single

Pole Structure, Existing Location - H

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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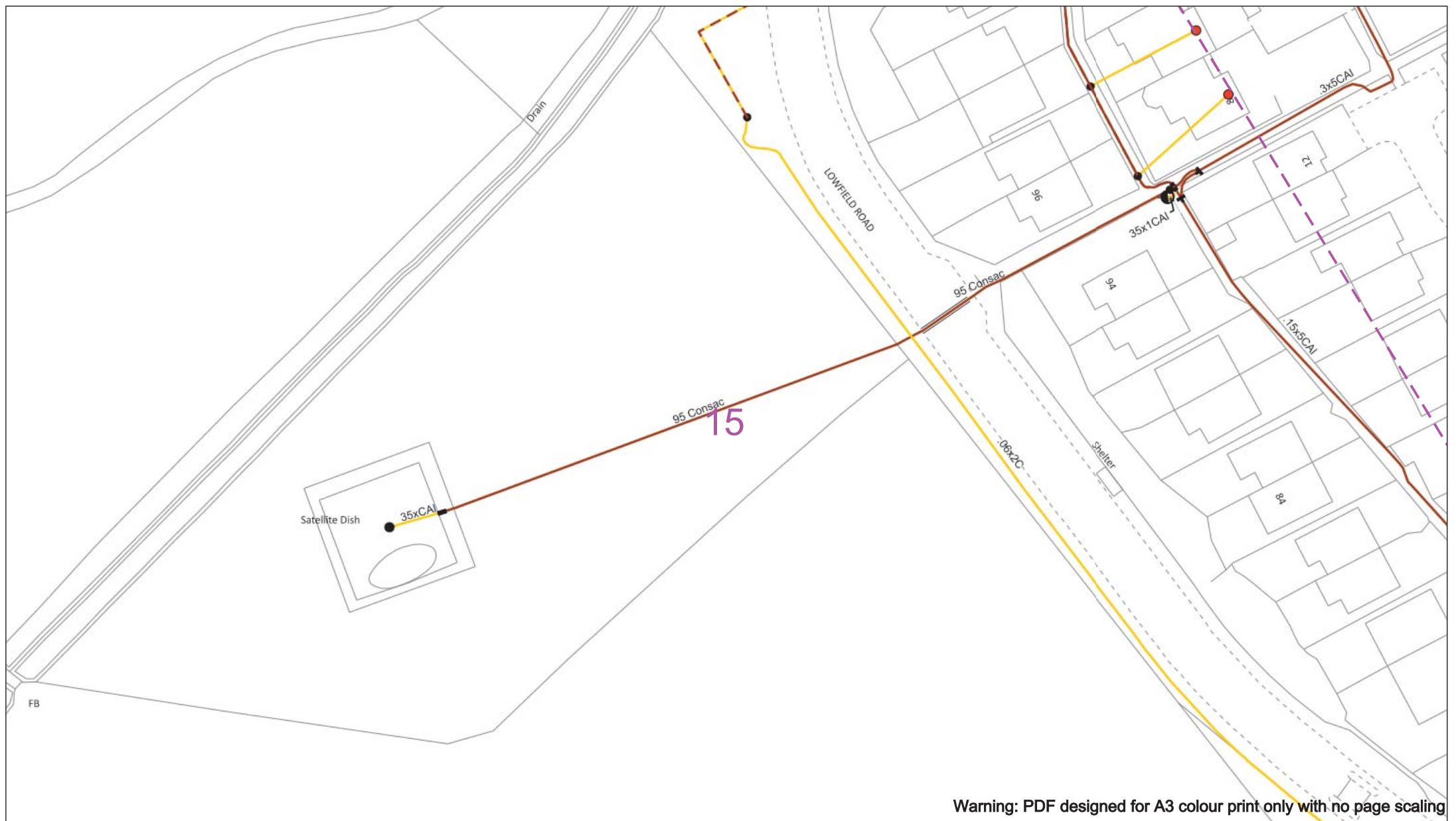
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Legend

Service Cable

LV Mains

2 – 3.3kV

6.6kV

11kV

22kV

33kV

66kV

132kV

275kV

400kV

Fibre Optic

Pole 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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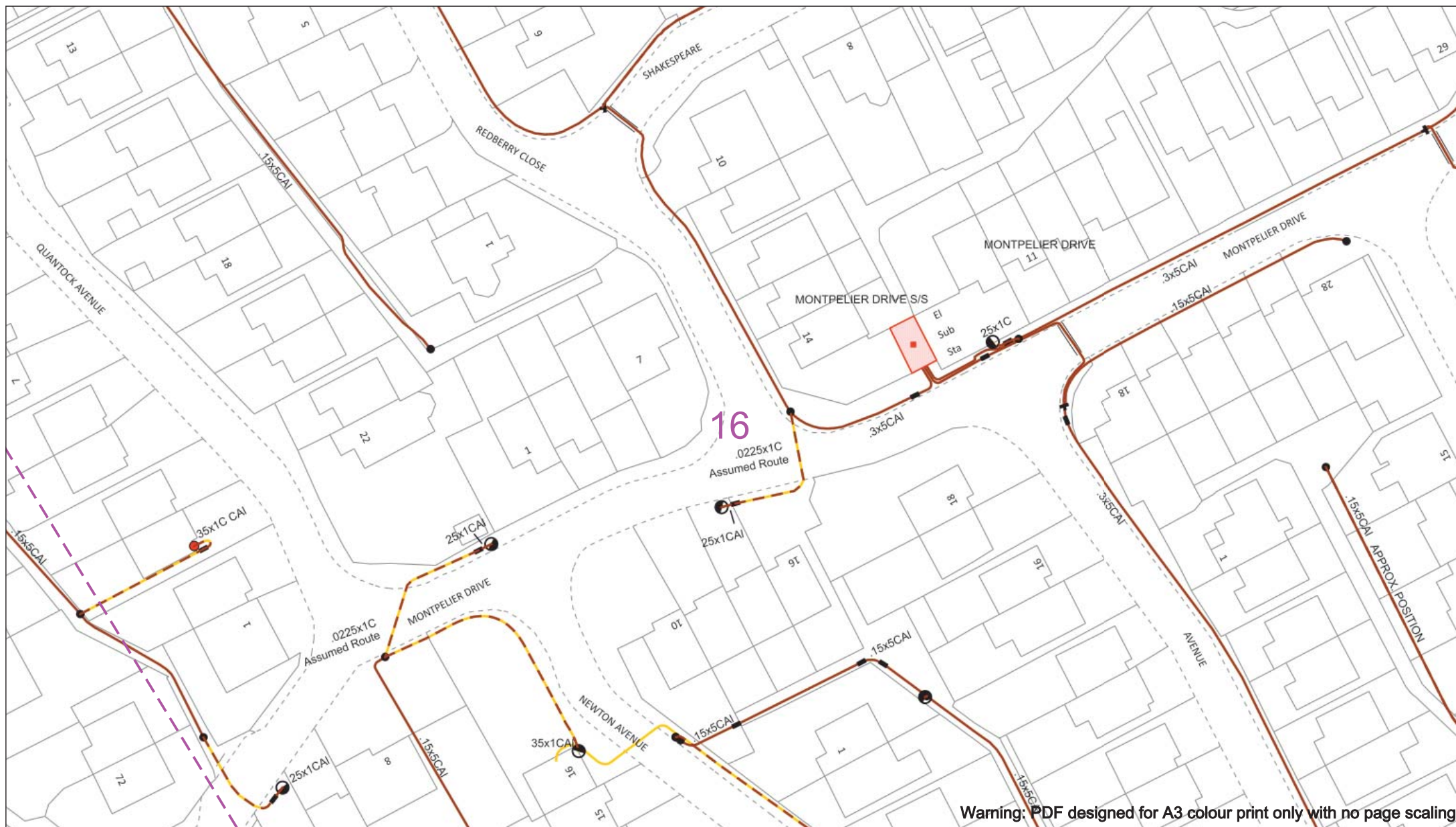
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0 50m

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Transmission				

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
Services	LV	HV	EHV	
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Agricultural	1m	1m	1m	1.1m

Legend

Service Cable

LV Mains

2 – 3.3kV

6.6kV

11kV

22kV

33kV

66kV

132kV

275kV

400kV

Flow Optic

Pole Cable

Distribution Structures (Electric)

Pole, Existing Location

Pole Structure, Existing Location - Single

Pole Structure, Existing Location - H

Duct Route

Cross Section Route

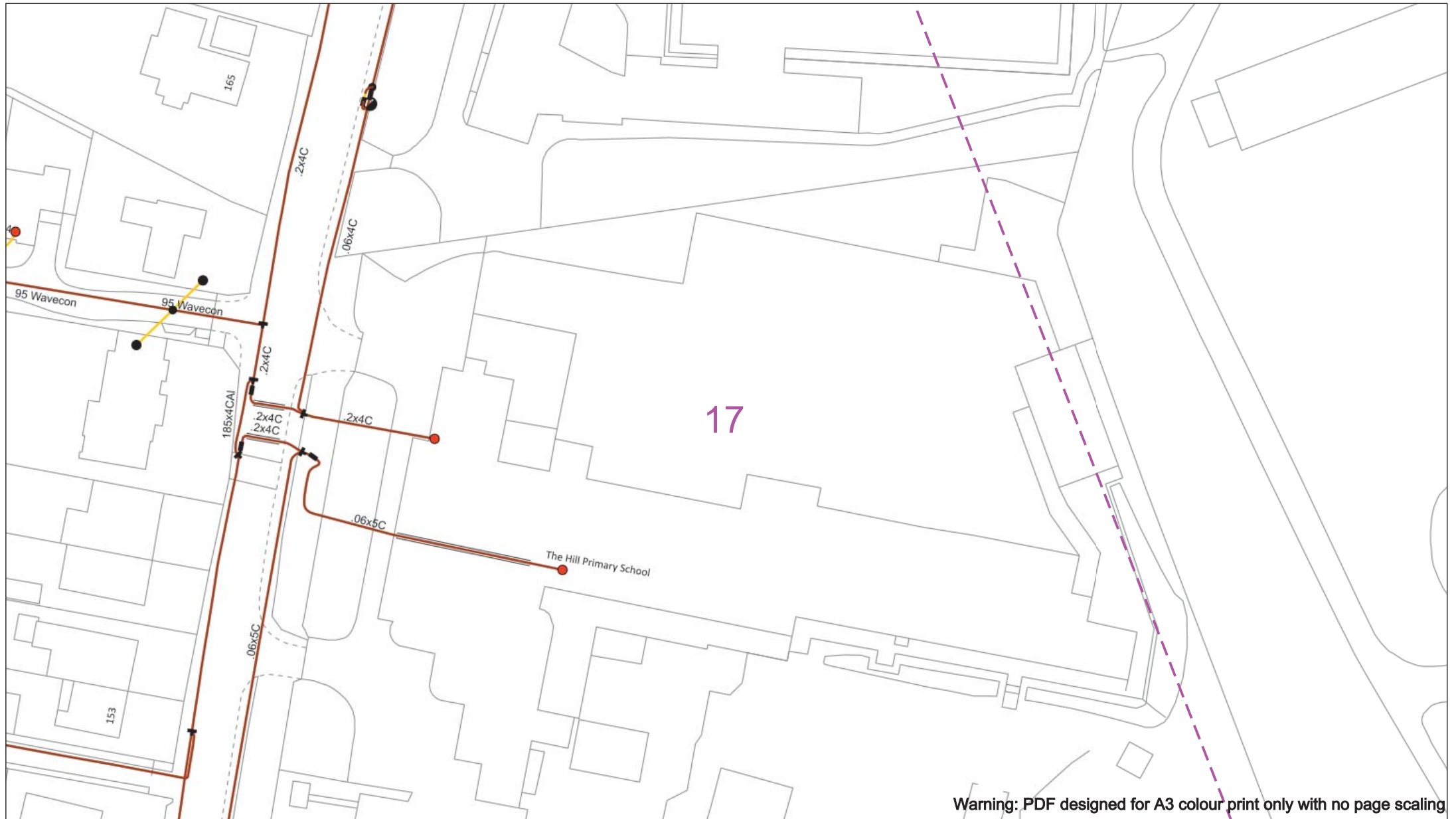
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Transmission 275,000V and 400,000V

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID

Services	LV	HV	EHV
Footpath/Unmade	0.45m	0.45m	0.6m
Road Crossing	0.6m	0.6m	0.75m
Agricultural	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 - H

Duct Route

Cross Section Route

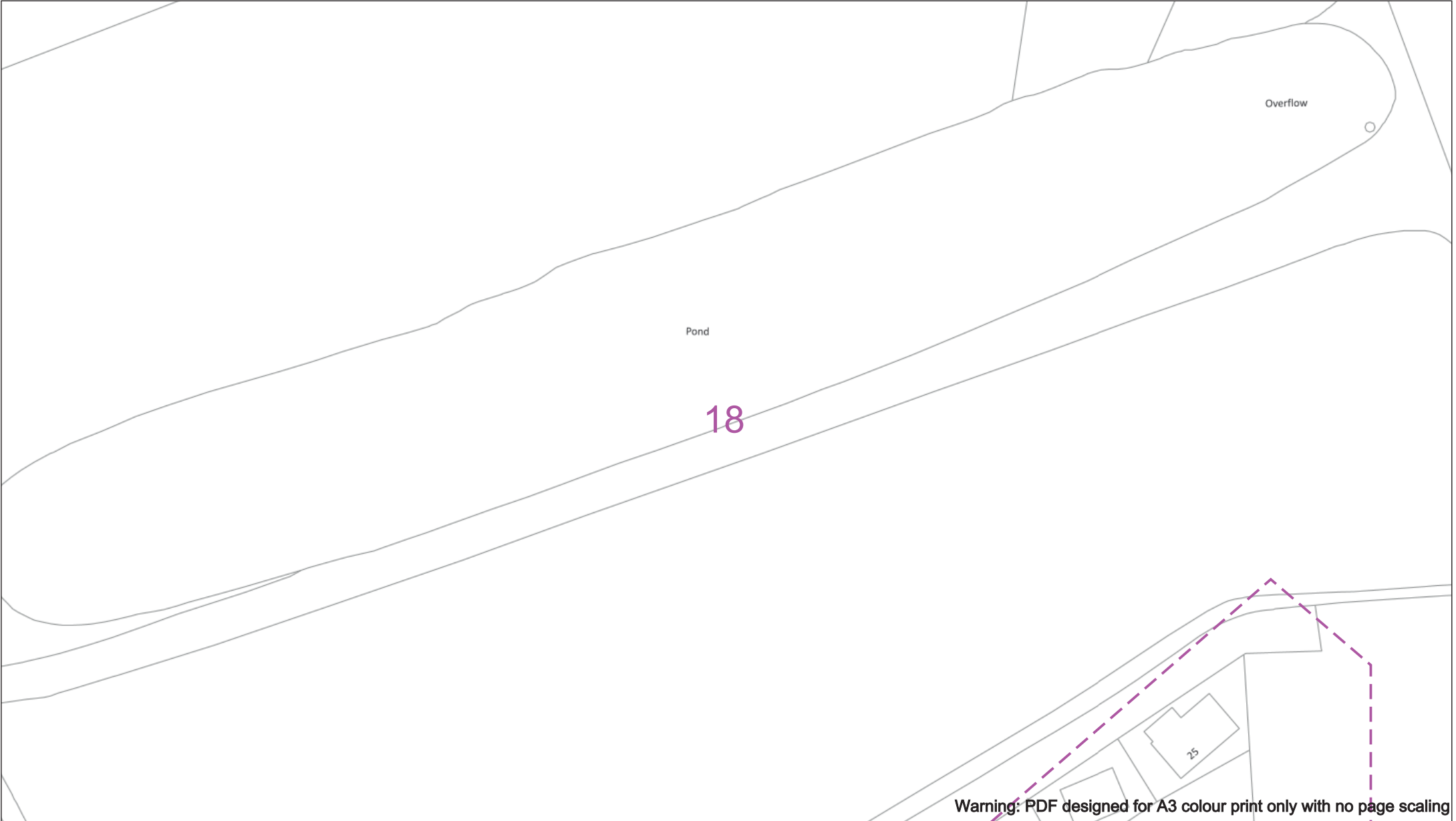
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NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID

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

Legend

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

Distribution Structures (Electric)

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

Southern Electric Power Distribution plc

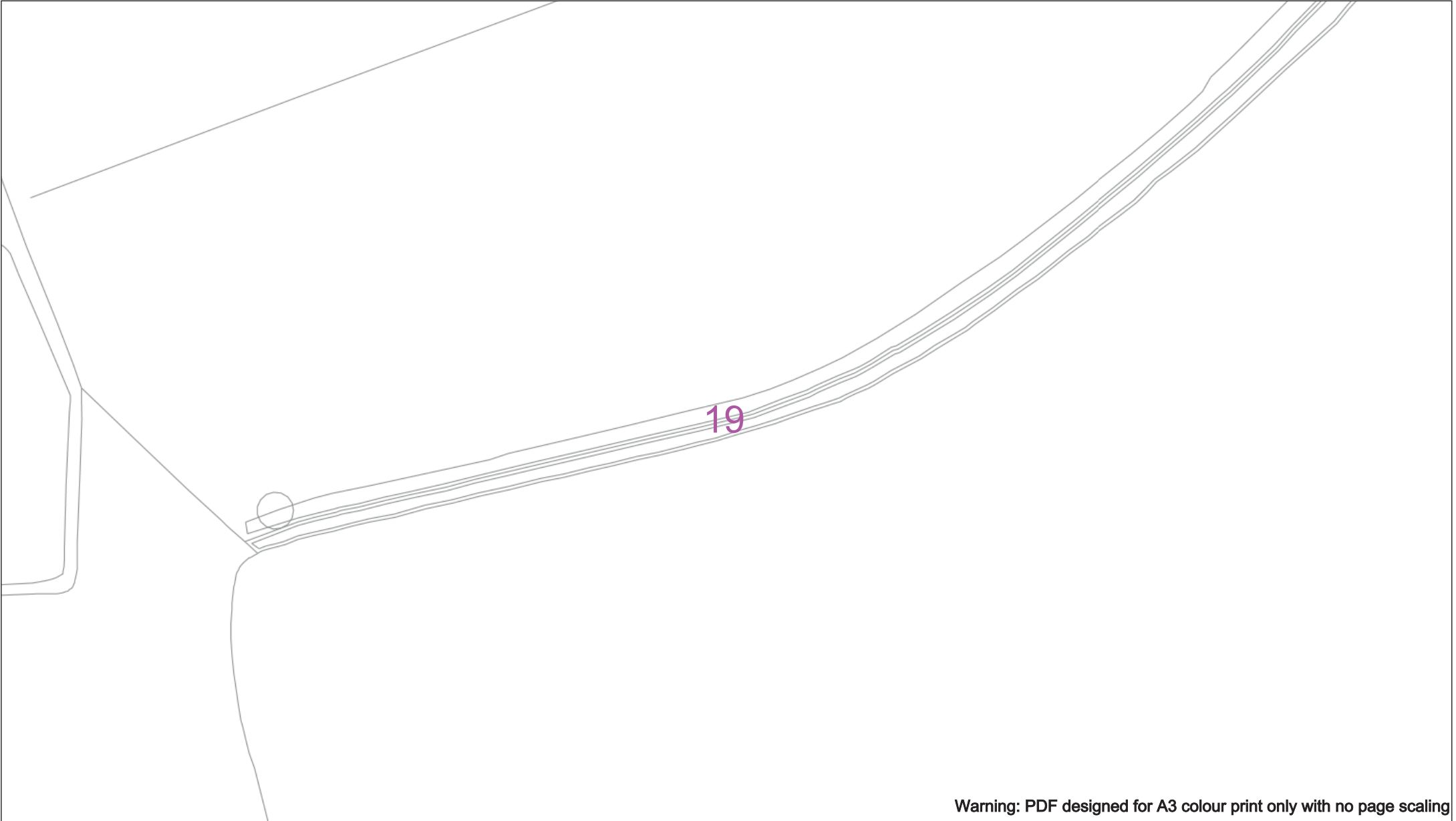
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Legend

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 - H

Duct Route

Cross Section Route

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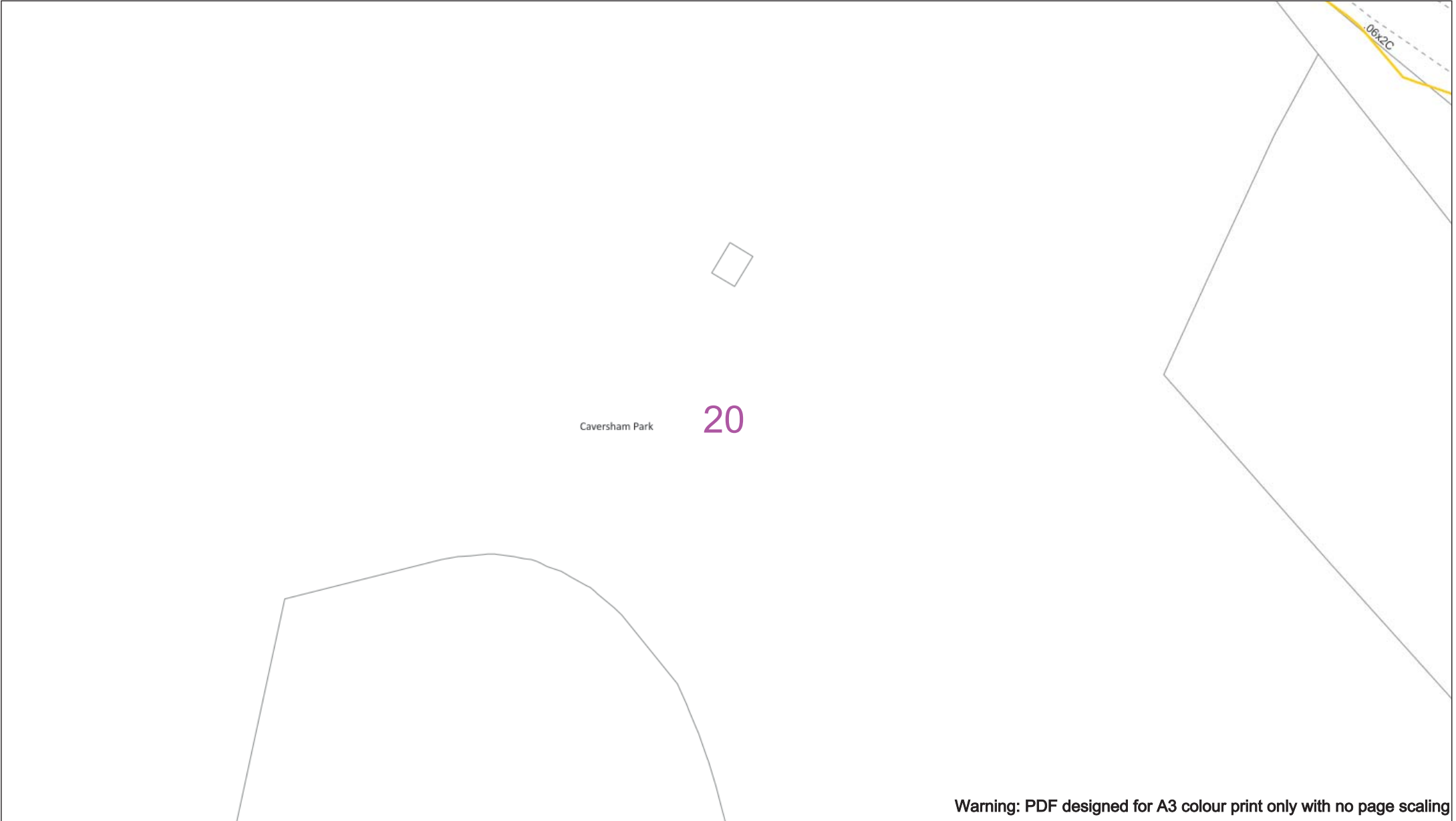
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Legend

Service Cable

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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 - H

Duct Route

Cross Section Route

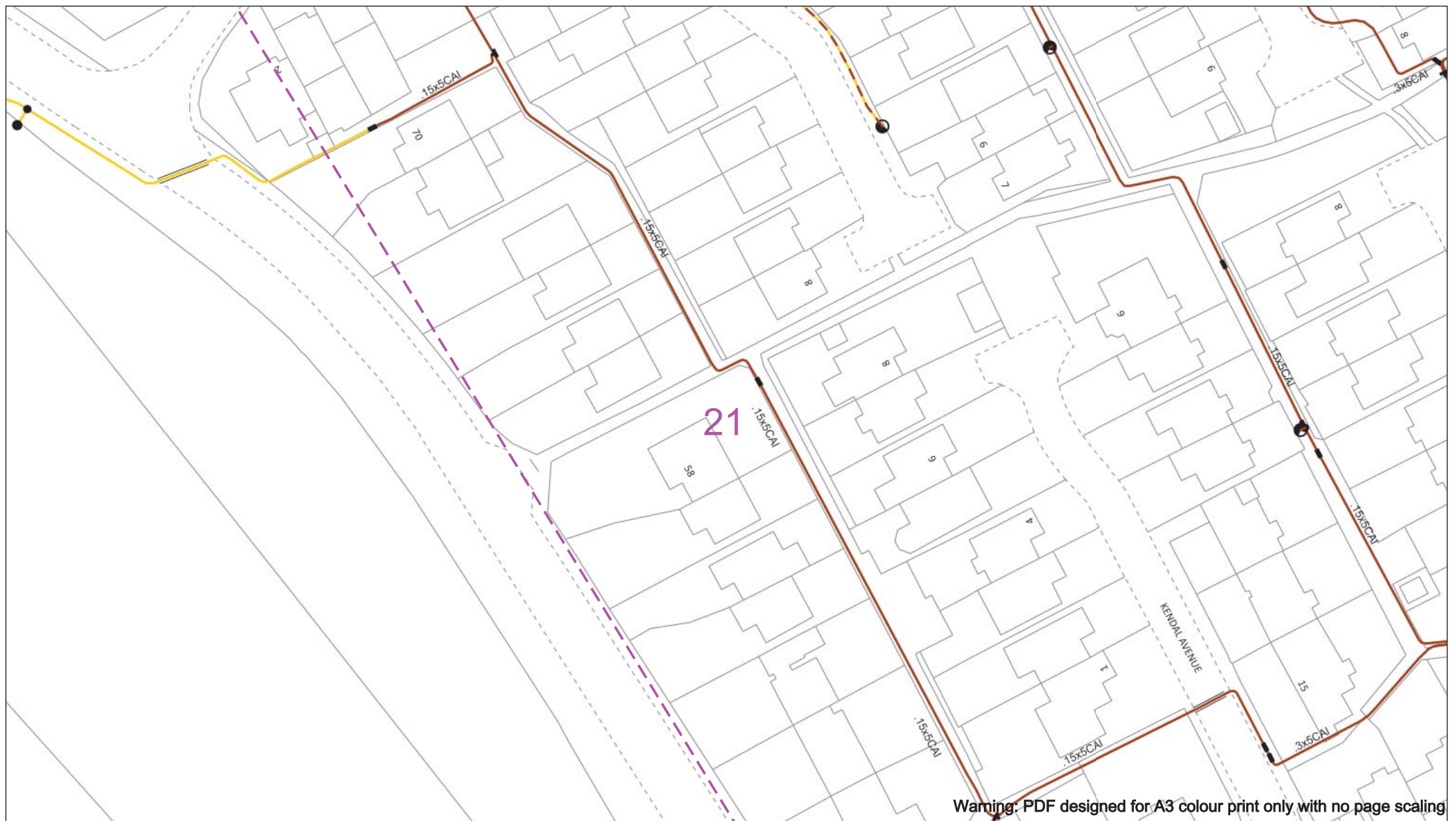
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Service Cable

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132kV

275kV

400kV

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Pilot Cable

Distribution Structures (Electric)

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Pole Structure, Existing Location - H

Duct Route

Cross Section Route

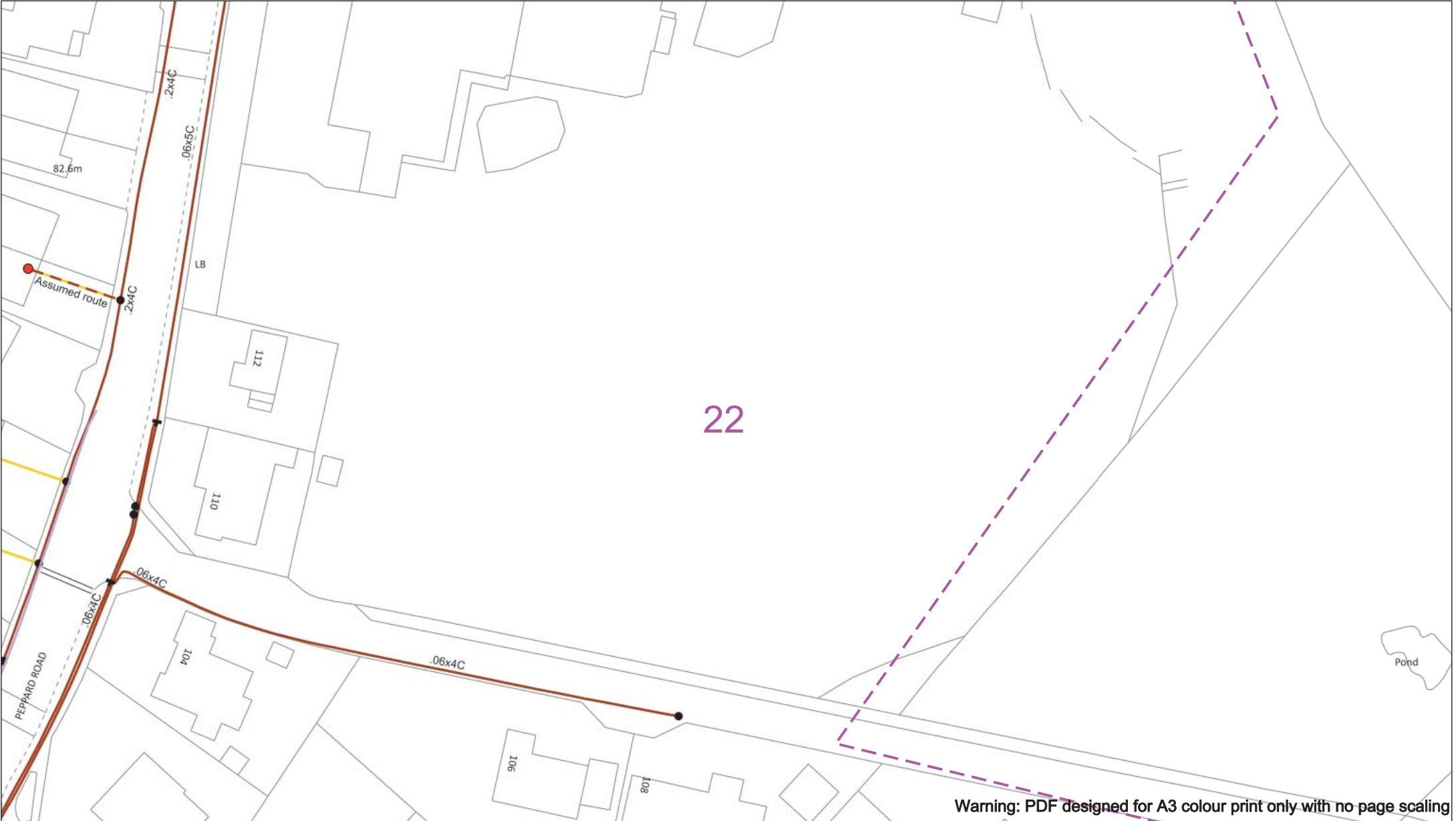
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Distribution Structures (Electric)

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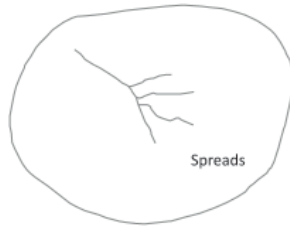
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Legend

 Service Cable

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 11kV

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 275kV

 400kV

 Fibre Optic

 Pipe Cable

 Pole, Existing Location

 Pole Structure, Existing Location - Single

 Pole Structure, Existing Location - H

 Duct Route

 Cross Section Route



Scottish & Southern

Electricity Networks

Southern Electric Power Distribution plc

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Dig Sites

Area: 

Line: 

Date Requested: 09/11/2021

Job Reference: 23827726

Site Location: 472556 176139

Requested by:
Ms Debbie Wigston

Your Scheme/Reference: 8210940

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 GS6 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

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
Road Crossing	0.6m	0.6m	0.75m
Agricultural	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 - H

 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

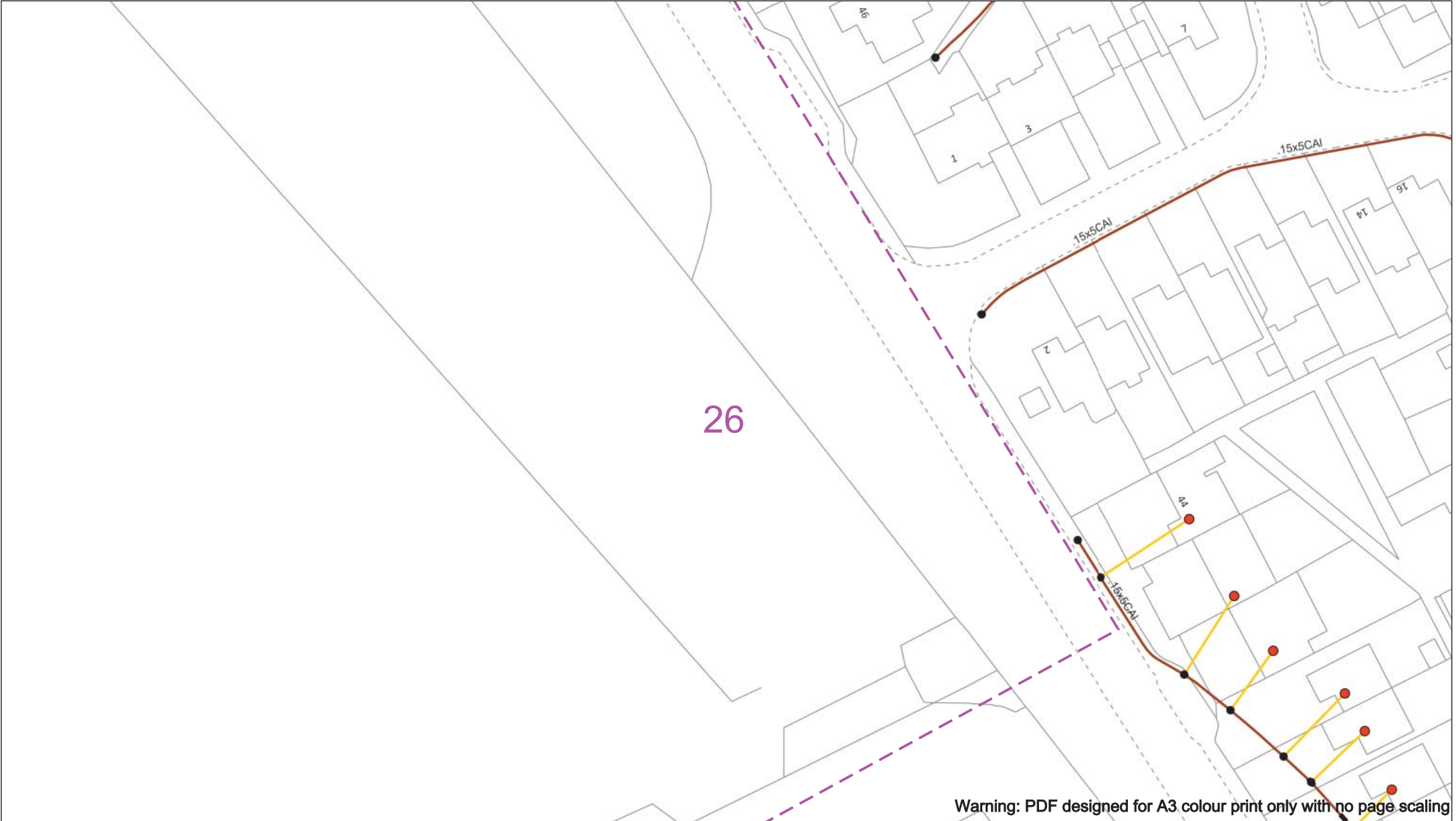
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HV (High Voltage)	Over 1,000V to 11,000V			
EHV (Extra High Voltage)	22,000V to 132,000V			
Transmission	275,000V and 400,000V			

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

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 - H

Duct Route

Cross Section Route

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Scale: 1:500 (When plotted at A3)

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	E
Footpath/Unmade	0.45m	0.45m	0.6m	0
Road Crossing	0.6m	0.6m	0.75m	0
Agricultural	1m	1m	1m	1

Service

- Service Cable
- UV Mains
- 2 - 3 kV
- 6.6kV
- 11kV
- 22kV
- 33kV
- 66kV
- 132kV
- 275kV
- 400kV
- Fibre Optic

Distribution Structures [Electric]

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

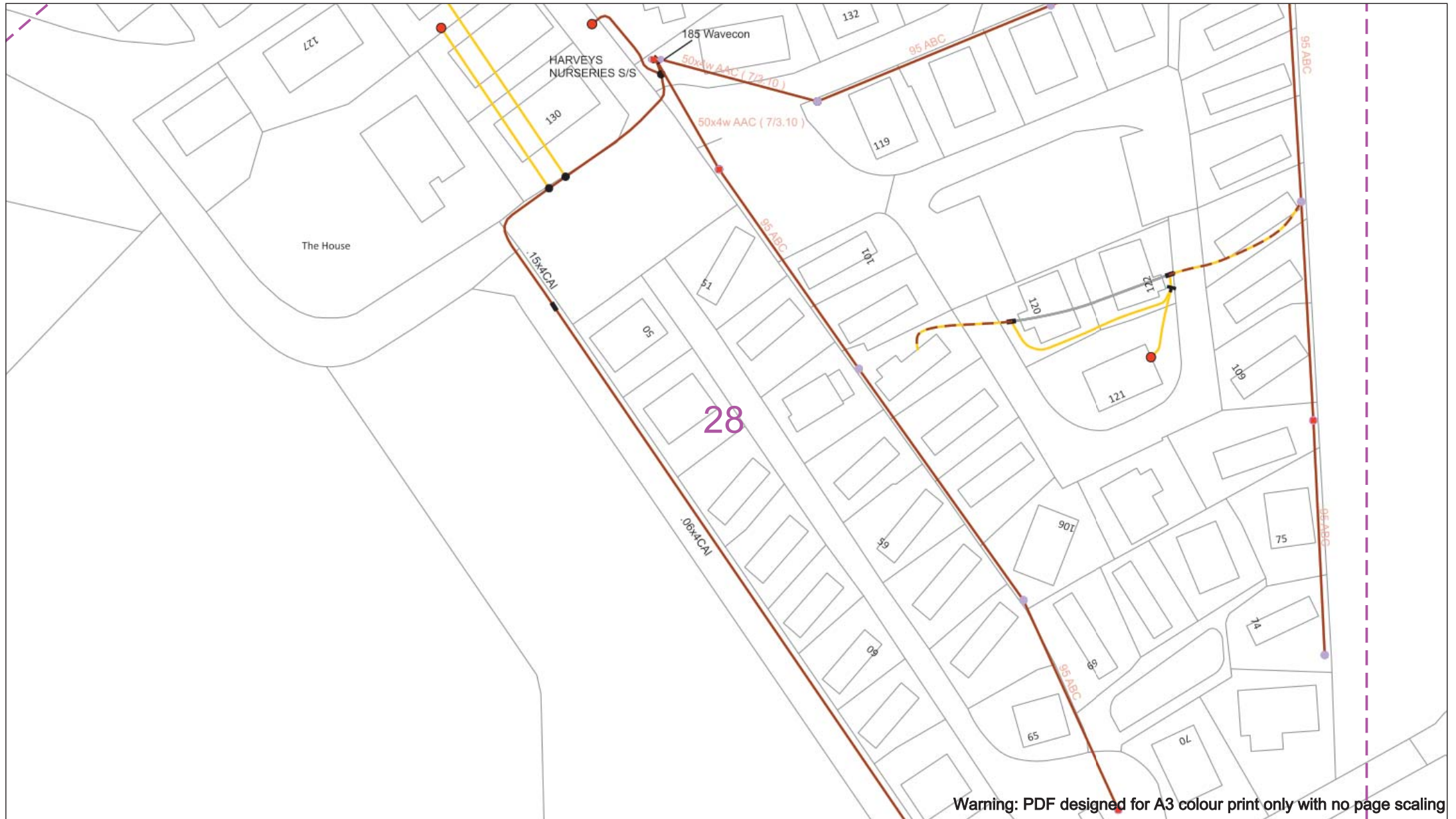


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Voltages (V)				
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LV Mains	Over 1,000V to 11,000V			
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EHV (Extra High Voltage)	275,000V and 400,000V			
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NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
Services	LV	HV	EHV	
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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 - H

Duct Route

Cross Section Route

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6.6kV


11kV


22kV


33kV


66kV


132kV


275kV


400kV


Fibre Optic


Pile 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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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	
Flow Cable	
Pile 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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