



Merton College

Site PR9 Land West of Rutten Lane, Yarnton

Utilities Assessment

December 2022

Project Code: 06058

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Version Control and Approval

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Purpose

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The conclusions and recommendations contained herein are limited by the availability of background information and the planned use for the Site.

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CDM

The revised Construction (Design and Management) Regulations 2015 (CDM Regulations) came into force on April 2015 to update certain duties on all parties involved in a construction project, including those promoting the development. One of the designer's responsibilities under clause 9 (1) is to ensure that the client organisation, in this instance Merton College, is made aware of their duties under the CDM Regulations.

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I Executive Summary

This report has been prepared by PJA Civil Engineering Limited, on behalf of Merton College Oxford in relation to the Proposed Development of Site PR9 Land West of Rutten Lane, Yarnton (the Site).

The Proposed Development comprises the construction up to 540 residential dwellings, extra care residential floorspace and a community home work hub, together with associated green infrastructure, meadowland and community woodland, as described in an outline Planning Application, submitted to Cherwell District Council (reference 21/03522/OUT).

This assessment provides a robust examination of utility supplies to support the Planning Application. As is normal, further enquiries would need to be made at detailed design stage to reflect the precise form of development being promoted, and this can be secured by planning conditions if deemed necessary.

There is existing apparatus present within the site's internal boundaries. These are limited to a foul water rising main, a sludge rising main, and electricity apparatus (11kV and 33 kV power lines).

The Council's Development Brief (November 2021) appears to assume that the foul and sludge rising mains running diagonally through the centre of the Site must be diverted to achieve the proposed layout. This has been discussed with Thames Water who confirm that the mains must be diverted in road corridors or open space areas in order to achieve the proposed layout. The precise alignment will be subject to further detailed discussions with Thames Water.

The masterplan has taken account of both the HV 11kV and 33kV lines, lying at the northern end of the Site, which can potentially be left in situ, subject to SSE guidelines. Discussions with SSE are ongoing to establish the detailed design criteria and the need for any possible diversion, although this will also not be an impediment to development.

There is existing utilities plant, outside of the application boundary but, within the existing highway boundaries at the proposed Site entrance. These may require local diversions or protection to construct the proposed Site access. However, this is not envisaged to be a major cost or impediment to servicing a development of this scale. The strategy for this will be developed as part of the detailed design following the grant of outline Planning Permission.

Utility apparatus is located within the vicinity of the Site and it will be able to service the Proposed Development.

Thames Water will be responsible for the design and implementation of any off-site works required to deliver an appropriate level of sewer capacity. The extent of works will be confirmed through future impact studies following the grant of outline Planning Permission.



Both BT Openreach and Virgin Media fibre services can be delivered to the Site, or other providers as part of a multi-utility package for the development.

SSE or a multi-utility provider will require new electricity distribution substations to be provided within the Proposed Development that will accommodate the estimated 3.5 to 4.0 kVA demand of the Proposed Development, with no reinforcement at this time. This will be developed and confirmed as the detailed development layout is finalised following the grant of outline Planning Permission.

Existing medium and low-pressure gas apparatus are located immediately adjacent to the Site and will be available to service the non-domestic uses included within the Proposed Development if required.

All public utilities are accessible in the vicinity of the Site to supply the Proposed Development, the details of which will be developed following the grant of outline Planning Permission.



2 Introduction

2.1 Context

2.1.1 This report has been prepared by PJA Civil Engineering Limited, on behalf of Merton College Oxford in relation to the Proposed Development of Site PR9 Land West of Rutten Lane, Yarnton.

2.1.2 The Site has been allocated in Cherwell District Council's Local Plan 2011-2031 (Part 1) Partial Review – Oxford's Unmet Housing Need (reference PR9 'Land West of Yarnton').

2.1.3 The Site is currently seeking outline planning permission under planning reference 21/03522/OUT for:

The erection of up to 540 dwellings (Class C3), up to 9,000sqm GEA of elderly/extra care residential floorspace (Class C2), a Community Home Work Hub (up to 200sqm)(Class E), alongside the creation of two locally equipped areas for play, one NEAP, up to 1.8 hectares of playing pitches and amenity space for the William Fletcher Primary School, two vehicular access points, green infrastructure, areas of public open space, two community woodland areas, a local nature reserve, footpaths, tree planting, restoration of historic hedgerow, and associated works. All matters are reserved, save for the principal access points.

2.1.4 The site is located approximately 2 km west of Kidlington town centre and 6.5 km north of Oxford. The A44, on the Site's eastern boundary, runs to Oxford in the south and northwards to Woodstock. The western edge of Yarnton is served by Rutten Lane which accesses Cassington Road / Yarnton Road to the south and the A44 at its northern extent.

2.1.5 The Site is predominantly agricultural land and lies to the west of A44 Woodstock Road. It is bounded by A44 Woodstock Road and Rutten Lane on its eastern boundary. The A44 Woodstock Road has residential properties on the eastern side. Rutten Lane has existing residential properties. On the Site's southern boundary is the access road to the Yarnton Residential and Nursing Home. Agricultural/greenfield land surround the Site on its western and northern boundary.

2.1.6 The Site covers an area of approximately 25 hectares (Ha) and is approximately centred on OS grid Reference SP 47257 13107 (487257E, 213107N).

2.1.7 A copy of the Site Location Plan which shows the location of the Site in its wider context is appended as Appendix A.



2.2 Report Structure

- 2.2.1 The purpose of this report is to identify the constraints and opportunities associated with utility supplies, including reinforcement and diversions, that might be required to facilitate the Proposed Development. Our findings provide assurance the Site can be served by utilities within its location and context without detriment to existing users or the local environment, as well as confirming the feasibility of the Proposed Development based upon available network capacity, following enquires / searches, details of which are included in the Appendices.
- 2.2.2 A range of utility providers have been contacted to confirm the position of their existing apparatus within and in the vicinity of the Site and their ability to serve the Proposed Development.
- 2.2.3 Table 1.1 below identifies the utility providers which have assets in the area that could potentially be affected by the Proposed Development. Asset Records are attached in Appendix B.

Table 2-1: Utility Apparatus Present

Utility Provider	Type
Thames Water	Sewers and Water Mains
SSE	Electricity
SGN	Gas
GTC	Electricity/Gas
Openreach	Telecoms
Virgin Media	Telecoms
Vodafone	Telecoms

- 2.2.4 For completeness, Table 1.2 lists the utility providers that have confirmed that they have no assets present in the vicinity of the site.

Table 2-2: Utility Apparatus not Present

Utility Provider	Type
Energetics	Electricity
SKY Telecommunications Services	Telecoms
KPN	Telecoms
Instalcom (inc. Level 3)	Telecoms
Verizon	Telecoms
CityFibre	Telecoms
Planecast (interoute enquiries)	Telecoms
Interoute (formerly VTESSE)	Telecoms
Mast Data	Telecoms
Network Rail	Railway



2.2.5 This report summarises information supplied for each of the key utilities, namely:

- Sewerage
- Potable Water
- Telecommunications
- Gas
- Electricity

2.2.6 Whilst a full topographical survey of the Site has been undertaken, no invasive work has been carried out in respect of identifying the precise locations of utility apparatus. Therefore, the actual positions of mains and services will need to be verified on-site as appropriate before any detailed design and future construction works are undertaken, in line with normal construction practices.

2.2.7 The budget costs for diversionary / upgrade works can only be properly ascertained through future discussions with the relevant Statutory Utility Companies once a Concept Masterplan has been developed further through the detailed design stage, following the grant of outline Planning Permission.

2.3 Exclusions and Liability

2.3.1 This report does not cover surface water proposals (Flood Risk and Drainage) which are being assessed separately. Information relating to existing Thames Water sewer assets have been included for completeness on the basis of assessing the diversion requirements of the existing plant only.

2.3.2 No warranty is given by PJA Civil Engineering Limited on the quality, accuracy or completeness of information provided by the Statutory Utility companies, or the composite plan Drg. No A224 – 100 Rev P4. All plant locations and explanatory descriptions are indicative only and must only be used as a guide. It is the responsibility of the site operative to identify and locate any apparatus prior to construction activity.



3 Sewerage

3.1 Existing Assets

- 3.1.1 Thames Water is the regional sewerage undertaker for the Site.
- 3.1.2 The Thames Water asset plans indicate a 150mm diameter sewer routing northwards alongside the development-side of the A44 Woodstock Road from manhole 0701.
- 3.1.3 Manhole reference 0701 is approximately located between The Royal Sun Public House and the northern development boundary. It has a recorded invert level of 65.87m with a cover level of 67.73 m providing 1.86m cover.
- 3.1.4 The Thames Water asset plans indicate a 150 mm diameter sewer, manhole References 3101, 3102, 4001 and 4002, situated on the eastern side of the A44 Woodstock Road opposite the frontage of the site onto the A44 Woodstock Road.
- 3.1.5 The head of the sewer run, manhole reference 3101 has a recorded invert level 67.61m with a cover level 68.95m providing 1.34m cover. Manhole reference 4002 has a recorded invert level 64.16m with a cover level 68.18m providing 3.87m cover.
- 3.1.6 The Thames Water asset plans indicate a 150 mm diameter sewer routed southwards from the frontage of Rutten Lane. This flows south by gravity along Rutten Lane eventually joining the aforementioned sewer in Woodstock road at various downstream pumping stations.
- 3.1.7 Manhole Reference 5401 located in Rutten Lane, adjacent to the Residential and Nursing Home access to the south of the Proposed Development, has no recorded invert level or cover level although the topographical levels in that area are approximately 63.20m.
- 3.1.8 All the foul flows from this catchment are treated at Oxford Sewage Treatment Works (STW) via Yarnton Strategic Pumping Station (SPS).
- 3.1.9 There is a sludge rising main and a foul water rising main crossing the site from Cassington Sewage Treatment Works, located west of the site, towards Oxford Garden and Shopping Village across the A44 Woodstock Road to the east of the site.
- 3.1.10 The records show the route of two abandoned rising mains contained within the same corridor as the sludge rising main and foul water rising main. One abandoned rising main is indicated to cross the Site from the access road serving Yarnton Residential and Nursing Home. This crosses the Site such that it joins the corridor of rising mains to the west of the Proposed Development, which is shown on Drg. No. A224-100 Rev P4, included in Appendix B.

3.2 Diversion Requirements – On Site

- 3.2.1 There are on-site Thames Water assets within the site boundary including strategic rising mains crossing the site from the Cassington Sewage Treatment Works to the west of the development site.
- 3.2.2 The Development Framework set out in the Council's PR9 Land 'West of Yarnton Development Brief' (November 2021) appears to assume that these assets, running diagonally through the centre of the site, must be diverted to achieve the layout proposed set out in the Development Brief. An application under s.185 of the Water Industry Act 1991 has therefore been made to Thames Water, confirming that they must be diverted to road corridors or open space areas in order to achieve the proposed layout. The precise alignment of this diversion will be subject to further detailed discussions with Thames Water. Initial diversion proposals (S185 WIA 1991) from Thames Water are included in Appendix C.

3.2.3

3.3 Diversion Requirements – Proposed Accesses

- 3.3.1 There will be no diversion requirements at proposed accesses to the Site as the existing infrastructure is not within the proposed works.

3.4 Supply Proposals

- 3.4.1 The average foul flow rate for a domestic house is 0.05 litres per second, based on Sewerage Sector Guidance (previously Sewers for Adoption).
- 3.4.2 From the 540 residential dwellings the sewage flow rate can be calculated as 0.05 l/s x 540 dwellings.
- Total = 27 l/s
- 3.4.3 The location of existing foul sewers in the roads adjacent to the Proposed Development indicate there is opportunity to split the Proposed Development into a northern and southern foul water catchment.
- 3.4.4 Given the topography of the site, flows originating from the majority of the Proposed Development should be able to connect to the surrounding network by gravity, however an onsite sewage pumping station is proposed for the northern foul water catchment outfalling to manhole ref. 0701 located north of the site.
- 3.4.5 There is scope for the southern foul water catchment to connect the Proposed Development to the local foul sewer network located within the junction of Rutten Lane and Aysgarth Road. This could



be via a new chamber at the junction entrance or via a suitable chamber located further East along Aysgarth Road. This is subject to confirmation of invert levels and capacity, as part of the detailed design and further dialogue ongoing with Thames Water.

- 3.4.6 A Thames Water Foul Water Impact Study may be required to develop and ascertain the available capacity in the existing off-site foul water drainage network, this will be finalised following the grant of outline Planning Permission.
- 3.4.7 Should appropriate upgrades or “off-site reinforcement” be required to serve the development, Thames Water will undertake network modelling work, design a solution and build the necessary improvements. The cost and responsibility of this work will be borne by Thames Water, with nil detriment to existing users.
- 3.4.8 Thames Water will only undertake the modelling on confirmation of land ownership and following the grant of outline Planning Permission. It is envisaged that full capacity would be made available by Thames Water within a reasonable period from commencing works. However, should capacity be required sooner, a collaborative working partnership can be formed, where the Developer provides early funding.
- 3.4.9 Therefore, prior to the Proposed Development being fully operational, Thames Water will be able to meet its full in line with any development phasing.



4 Potable Water

4.1 Existing Assets

- 4.1.1 Thames Water is the regional distributor to the Proposed Development.
- 4.1.2 Enquiries have indicated that Thames Water have no assets located within the site boundary itself.
- 4.1.3 The asset plans indicate a 10" diameter strategic water main that routes along the eastern side of the A44 Woodstock Road.
- 4.1.4 Furthermore, there are 4" diameter water mains located in Rutten Lane up to Yarnton Health Centre as well as a separate 4" water main supplying the Yarnton Residential and Nursing Home to the south of the Proposed Development.
- 4.1.5 To the north of the Proposed Development there is a 4" diameter water main that provides clean water supplies to Spring Hill Road and terminates at Forester Lodge.

4.2 Diversion Requirements - On Site

- 4.2.1 No diversions are required within the site, based on the records available and appended.

4.3 Diversion Requirements – Proposed Access

- 4.3.1 There will be no diversion requirements at proposed accesses to the Site as the existing infrastructure is not within the proposed works.

4.4 Supply Proposals

- 4.4.1 Thames Water will be required to review the effects of the Proposed Development on their network and advise whether it can be accommodated without need for off-site reinforcement. Any shortfall will be the responsibility of Thames Water to provide supply and capacity.
- 4.4.2 Should appropriate upgrades or "off-site reinforcement" be required to serve the development, Thames Water will undertake network modelling work, design a solution and build the necessary improvements. The cost and responsibility of this work will be borne by Thames Water in the main, with nil detriment to existing users.
- 4.4.3 Thames Water will only undertake the modelling on confirmation of land ownership and following the grant of outline Planning Permission . However, should capacity be required sooner, a collaborative working partnership can be formed, where the Developer provides early funding.
- 4.4.4 Therefore, prior to the Proposed Development being fully operational, Thames Water will be able to meet its full needs in line with any development phasing.



5 Telecommunications

5.1 Existing Assets

- 5.1.1 Enquiries have indicated that Openreach, Virgin Media and Vodafone have no assets located within the Site boundary.
- 5.1.2 The Openreach asset plan indicates extensive underground cables along the A44 Woodstock Road with two cables on the western side and one on the eastern side. Further underground cables can be found in Rutten Lane and in the Residential and Nursing Home access to the south of the Site.
- 5.1.3 The Virgin Media asset plan indicates underground apparatus along the eastern side of the A44 Woodstock Road and in both sides of Rutten Lane.
- 5.1.4 The Vodafone asset plan indicates underground apparatus along the eastern side of the A44 Woodstock Road.

5.2 Diversion Requirements - On Site

- 5.2.1 The review of the asset mapping indicates no on-site diversions are required in respect of the above telecommunications, based on the records available and appended.

5.3 Diversion Requirements – Proposed Accesses

- 5.3.1 The likely formation of the vehicular access junctions and the associated widening to achieve a suitable carriageway width with footways either side onto the A44 Woodstock and/or Rutten Lane will need to give consideration to the existing Openreach apparatus on the development-side of the A44 Woodstock Road and Rutten Lane.
- 5.3.2 Furthermore, the Virgin Media assets within Rutten lane will also be affected, and need to be considered further in the detailed design.
- 5.3.3 Any localised lowering that might be required along the A44 Woodstock Road and/or Rutten Lane is dependent on the depth of apparatus in conjunction with the construction depth of highway works, and hence can only be confirmed when the designs are fully progressed to detailed design stage and trial trenches have been undertaken.

5.4 Supply Proposals

- 5.4.1 Given the proximity to the existing telecommunications apparatus network providers Openreach and/or Virgin Media would be capable of serving the Proposed Development, or other providers as part of a multi-utility package for the Proposed Development.

5.4.2 This would provide fibre to all the Premises within the Proposed Development.

6 Gas

6.1 Existing Assets

- 6.1.1 Southern Gas Networks (SGN) is the primary gas transporter for the area.
- 6.1.2 Enquiries have indicated that SGN have no assets located within the Site boundary.
- 6.1.3 The SGN asset plans indicate a 63mm Polyethylene (PE) diameter low pressure mains in the eastern verge of the A44 Woodstock Road. A 90mm PE medium pressure mains is also located to the eastern side of the A44 Woodstock Road / Rutten Lane roundabout.
- 6.1.4 A further low pressure main of various size and material is located in Rutten Lane and in the Residential and Nursing Home access to the south of the site.

6.2 Diversion Requirements - On Site

- 6.2.1 The review of the asset mapping indicates no on-site diversions are required in respect of the above apparatus, based on the information available and appended.

6.3 Diversion Requirements – Proposed Accesses

- 6.3.1 There will be no diversion requirements at proposed accesses to the Site as the existing infrastructure is not within the proposed works, based on the information available and appended.

6.4 Supply Proposals

- 6.4.1 The presence of the existing low-pressure apparatus along the southern frontage of the Site in Rutten Lane indicates that providing a gas supply to the proposed development for any non-domestic uses should be relatively straightforward.
- 6.4.2 SGN has confirmed, in principle, based on the available preliminary information, they are able to supply the site and install appropriately sized gas infrastructure to any non-domestic uses . They will also be responsible for all necessary excavations and reinstatement of trenches up to the Site boundary.

7 Electricity

7.1 Existing Assets

- 7.1.1 Scottish and Southern Energy (SSE) is the regional electricity distribution network operator (DNO) for the Site.
- 7.1.2 Electricity apparatus is located adjacent to and within the Site in the form of both high voltage (HV) and low voltage (LV) circuits.
- 7.1.3 There is an underground HV 11kV running alongside the western side of A44 Woodstock Road, the majority of which is located in highway land. A further underground 11kV is routed in the eastern verge of the A44 Woodstock Road.
- 7.1.4 An overhead HV 11kV routes westwards through the far north of the Site to serve Hall Farm Substation (S/S) to the north and serve Springhill House S/S to the south west respectively.
- 7.1.5 An overhead HV 33kV power lines crosses the A44 Woodstock Road, from land to the east, and continues to route westwards through the Site.
- 7.1.6 An underground HV 11kV routes further southwards on the eastern side of Rutten Lane to Rutten Lane S/S and finally to William Fletcher School S/S located near the Residential and Nursing Home access to the south of the site.
- 7.1.7 There are LV cables located in the eastern verge of the A44 Woodstock Road, the western and eastern verge of Rutten Lane and in the Residential and Nursing Home access to the south of the site.
- 7.1.8 GTC own LV apparatus supplying Yarnton Residential and Nursing Home from William Fletcher School S/S.

7.2 Diversion Requirements - On Site

- 7.2.1 It is apparent that there is existing electric apparatus within the boundary of the Proposed Development (based on the information appended) and hence there are constraints that affect the Concept Masterplan, that will need to be considered further in the detailed design.
- 7.2.2 The existing HV 11kV enters the Site in the north west corner and routes west. The masterplan has taken cognisance of this constraint and the cable route can be left in-situ provided that the proposed residential dwellings are located 9.0 metres from the overhead power lines in accordance with SSE guidelines, which is the case. Further consideration will need to be given to the design in these locations as part of the detailed design.

- 7.2.3 The existing HV 33kV overhead power line routes mainly through proposed greenspace, although a small section will be located close to part of the Proposed Development and over a road corridor. There is scope to divert the 33kV apparatus via grounding, along and under the road corridor to avoid development. Alternatively, should SSE guidelines for the minimum safe distance from overhead power lines be achievable, the cables could be left in-situ.
- 7.2.4 Discussions with SSE to establish both design criteria and also a potential diversion are ongoing, although neither will be an impediment to the Proposed Development.
- 7.2.5 The relationship of the 33kV overhead lines with the Proposed Development will be further assessed in the detailed design stage, once outline Planning Permission is granted.

7.3 Diversion Requirements – Proposed Accesses

- 7.3.1 The formation of a vehicular access onto A44 Woodstock Road and/or Rutten Lane will need to consider the existing high and low voltage cables located within the development-side verge of both roads.
- 7.3.2 Any localised lowering that might be required is dependent on the depth of apparatus in conjunction with the construction depth of highway works, and hence can only be confirmed when the designs are fully progressed at the detailed design stage and trial trenching has been undertaken.

7.4 Supply Proposals

- 7.4.1 Following the grant of outline Planning Permission, a detailed residential layout will be sent to SSE or a multi-utility provider to ascertain whether any reinforcement will be required, but currently this is not anticipated, therefore not considered to be a barrier to the Proposed Development. The supply strategy will be firmed up during the detailed design stage.
- It is anticipated a minimum of four new distribution substations will be required, approximate size 4m x 4m per substation, which will need to be allowed for as the Proposed Development progresses to detailed design stage. The exact demand will need to be confirmed when the precise details are known, but currently we have included for all residential properties to be all electric in line with current legislation and best practice, and therefore a load of 3 to 3.5 kVA for the Proposed Development, has been estimated, which we understand is currently available with no reinforcement.
 - Within the load calculations, we have included for Electric Vehicle Charging (EVC) at 7.2kw per property, with additional EVC provision for unallocated residential and non-residential parking for a minimum of 25% of spaces. Additional EVC points are allowed for at commercial and community uses

in line with best practice, the details of which will be agreed following the grant of outline Planning Permission.

- 7.4.2 Multi-utility companies such as UKPS, GTC or similar have been contacted also. The final selection of a IDNO will be made by the developer (s) following the grant of Outline Planning Permission.



8 Summary

8.1 Context

- 8.1.1 This report has been prepared by PJA Civil Engineering Limited, on behalf of Merton College Oxford, in relation to the Proposed Development of Site PR9 Land West of Rutten Lane, Yarnton.
- 8.1.2 The Proposed Development comprises up to 540 residential dwellings, extra care residential floorspace and a community home work hub, together with associated green infrastructure, meadowland and community woodland.

8.2 Diversion Requirements - On Site

- 8.2.1 Based on the utility information received and appended it is apparent that there is existing apparatus present within the Site's boundary. These are limited to a foul water rising main, a sludge rising main, and electricity apparatus (11kV and 33 kV power lines).
- 8.2.2 The Council's Development Brief (November 2021) appears to assume that the foul and sludge rising mains running diagonally through the centre of the site must be diverted to achieve the proposed layout. This has been discussed with Thames Water who confirm that the mains must be diverted in road corridors or open space areas in order to achieve the proposed layout. The precise alignment will be subject to further detailed discussions with Thames Water.
- 8.2.3 The masterplan has taken account of both the HV 11kV and 33kV lines, lying at the northern end of the site, which can potentially be left in situ, subject to SSE guidelines. Discussions with SSE are ongoing to establish the detailed design criteria and the need for any possible diversion, although this will also not be an impediment to development.

8.3 Diversion Requirements – Proposed Accesses

- 8.3.1 The formation of the vehicular access junction onto A44 Woodstock Road and Rutten Lane will consider the following existing apparatus that is present in the development-side verge of A44 Woodstock Road and Rutten Lane
- Underground high and low voltage electricity cables and location of overhead high voltage electricity cables crossing the A44 Woodstock Road;
 - Telecommunications cables and Openreach chambers
- 8.3.2 Any localised lowering that might be required as part of the proposed access into the Site is dependent on the depth of apparatus in conjunction with the construction depth of highway works, and hence can only be fully confirmed when the layouts are fully progressed at the detailed design stage.

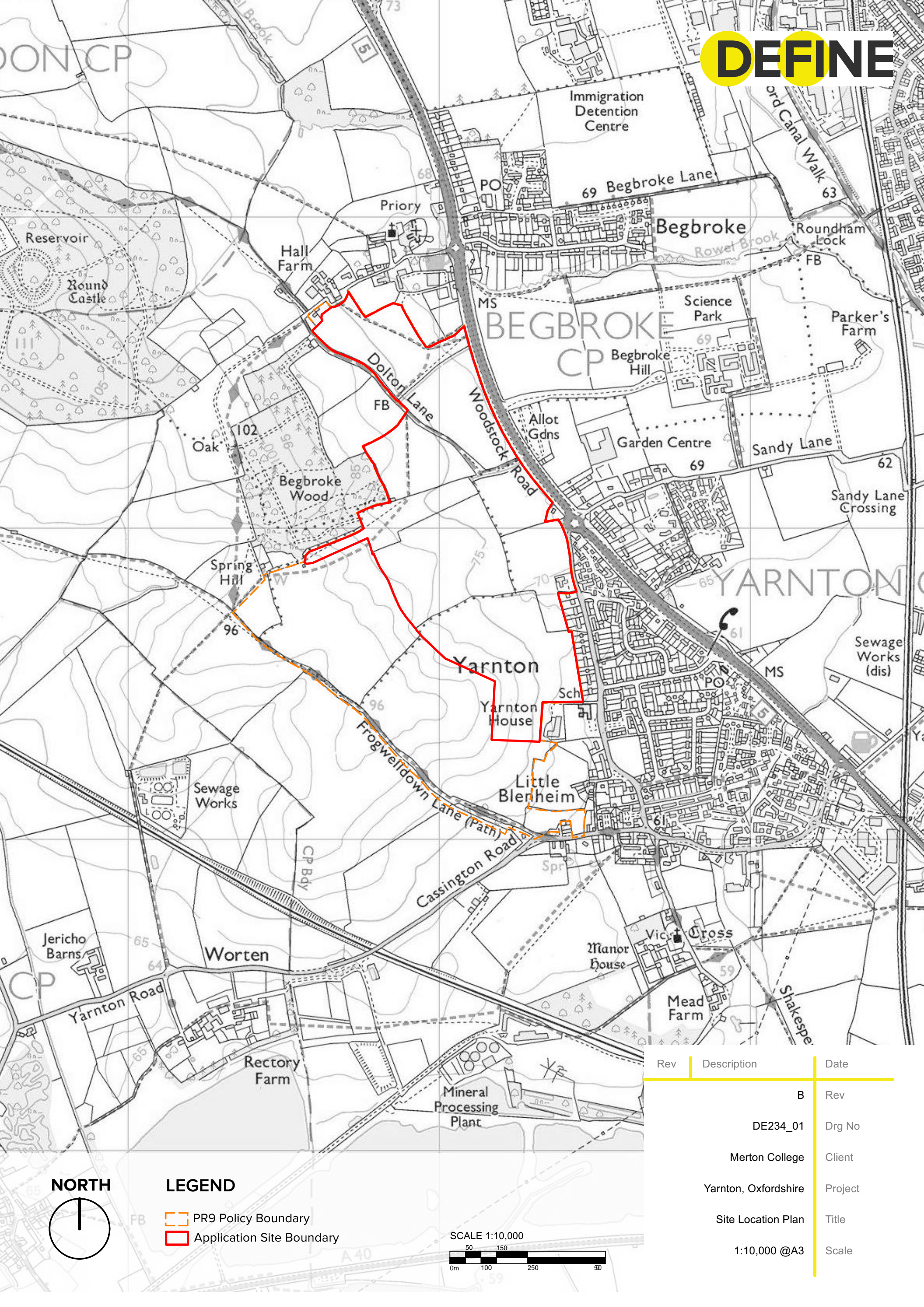


8.4 Supply

- 8.4.1 An investigation of the utility apparatus located within the vicinity of the site indicates that servicing the Proposed Development in respect of the various service utilities should be relatively straightforward given the presence of the various apparatus.
- 8.4.2 Sufficient capacity is or can be made available by the various providers in order to serve the Proposed Development.
- 8.4.3 There is therefore no reason, from a utility constraint or supply perspective, that prevents the grant of outline Planning Permission.

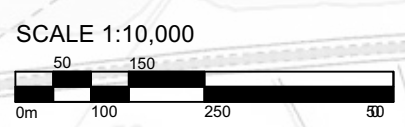


Appendix A Site Location



LEGEND

- PR9 Policy Boundary
- Application Site Boundary



Rev	Description	Date
B	Rev	
DE234_01	Drg No	
Merton College	Client	
Yarnton, Oxfordshire	Project	
Site Location Plan	Title	
1:10,000 @A3	Scale	



Appendix B Existing Utilities



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NOTES

1. Do not scale from this drawing.
2. The information provided on this drawing about the existing utility services is based on historic records provided by the statutory utilities. The actual position and status of any mains and services must be verified and established on site. This drawing is provided for information only.
3. The information on this drawing is given without obligation or warranty. No liability of any kind whatsoever is accepted by ALP, its agents or servants for any errors or omissions.
4. Services to buildings are generally not shown but it must be assumed that any existing building is served with live supplies until proven otherwise. Written confirmation that a supply is dead must be obtained from the relevant utility.
5. Cables to street lights, road signs and illuminated bollards are generally not shown.
6. The location of any mains and services must be undertaken by hand dug trial holes. The approval of the appropriate utility must be sought before any mechanical plant is used.
7. Underground services must be located in accordance with HSE Guidance HS (G) 47.
8. Overhead power lines must be dealt with in accordance with HSE Guidance Note GS 6 (3rd edition)
9. For clarity, existing plant is represented by single lines. Please note, this does not indicate the number of cables, ducts and pipes that may exist in the location indicated.
10. This drawing is to be read in conjunction with all other project drawings and notes. The appointed Contractor is to satisfy themselves that there are no discrepancies with any other plans before commencement on site. If in doubt, ask.

KEY

WATER	— WTR —
OPENREACH	— BT —
COMMS (Vodafone)	— COMMS —
VIRGIN MEDIA	— VM —
EXTRA HV ELECTRIC	— ELEC (EHV) —
HV ELECTRIC	— ELEC (HV) —
LV ELECTRIC	— ELEC (LV) —
HIGH PRESSURE GAS	— GAS (HP) —
ABANDONED THAMES WATER FW RISING MAIN	— X X X X —
OPERATIONAL THAMES WATER FW RISING MAIN	— FRM —
OPERATIONAL THAMES WATER SLUDGE RISING MAIN	— — — — —
EXISTING THAMES FOUL WATER SEWER	— FW —

P4	09/20	Updated on receipt of further information	JS	SL
P3	07/20	Foul water sewer to manhole locations	JS	SL
P2	07/20	Utilities aligned to topo	CG	SL
P1	01/19	FIRST ISSUE	CG	SL
Rev	Date	Description	Drawn	Checked

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Client

MERTON COLLEGE

Project

MERTON COLLEGE, YARNTON (PR9)

Title

EXISTING UTILITIES

Status

INFORMATION

Scale	Date	Drawn	Checked
1:2500 @ A1	JAN 2019	CG	SL
Drawing No	A224 - 100		Revision
		P4	

GROUNDWISE

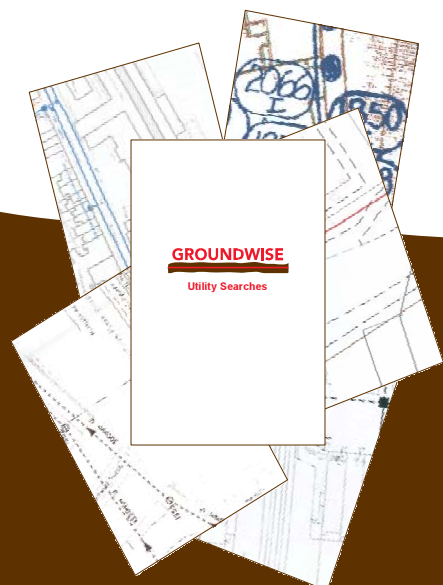
Groundwise Searches Ltd



Groundwise Searches Limited

Suite 8, Chichester House
45 Chichester Road
Southend on Sea
Essex, SS1 2JU

Telephone 01702 615566
Fax 01702 460239
Email mail@groundwise.com
Website www.groundwise.com



GROUNDWISE

Groundwise Searches Ltd

Product Desktop Utility Search

Scope PAS 128 – Level D

Groundwise Reference 22630DM

Site Land near Yarnton, Oxfordshire, OX5 1QD

Client Charles Graham

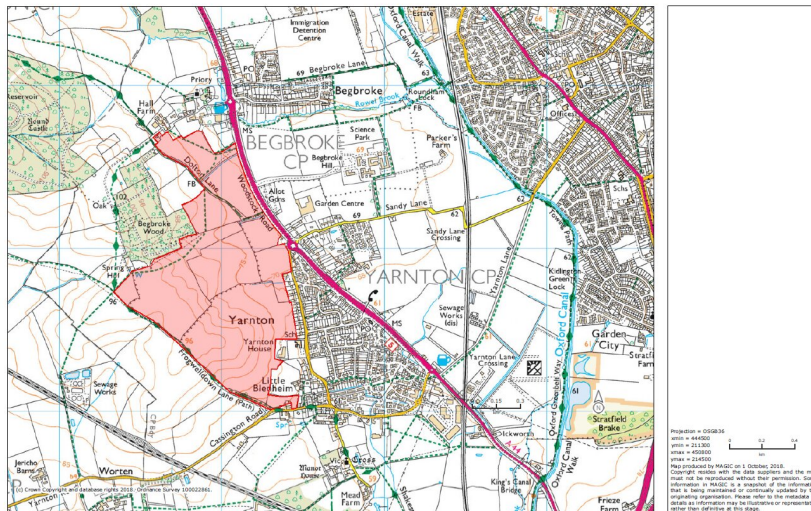
Company Abley Letchford Partnership Ltd

Client Reference

Purchase Order

MAGIC

Overall Site - Yarnton



Researcher

Debbie Miller
dmiller@groundwise.com

Report Version

#1 - Thursday, 04 October 2018
#2 - Monday, 15 October 2018
#3 - Tuesday, 23 October 2018

Groundwise Searches Limited

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45 Chichester Road
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Essex, SS1 2JU

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Website www.groundwise.com

GROUNDWISE
Utility Searches

GROUNDWISE

Groundwise Searches Ltd

Groundwise Reference

22630DM

Site

Land near Yarnton, Oxfordshire, OX5 1QD

Click on a Data Supplier to view their response

Type	Data Supplier	Date Received	Date Sent	Assets in Area
Electricity	Energetics	2/10	4/10	
Electricity	SSE	3/10	4/10	X
Electricity	Utility Assets Ltd	4/10	4/10	
Gas	GTC	3/10	4/10	X
Gas	Southern Gas Networks	3/10	4/10	X
Mobile Phone Masts	Mast Data	3/10	4/10	
Telecom	BskyB Telecommunications Services Ltd	2/10	4/10	
Telecom	BT	3/10	4/10	X
Telecom	C.A. Telecom - Colt	8/10	15/10	
Telecom	CityFibre	3/10	4/10	
Telecom	euNetworks	2/10	4/10	
Telecom	Instalcom Ltd	2/10	4/10	
Telecom	GTT (Formerly Interoute Vtesse Networks Ltd)	4/10	4/10	
Telecom	KPN	3/10	4/10	
Telecom	MBNL	4/10	4/10	
Telecom	Plancast	3/10	4/10	
Telecom	Telent	23/10	23/10	
Telecom	Trafficmaster	4/10	4/10	
Telecom	Verizon	2/10	4/10	
Telecom	Virgin Media	5/10	15/10	X
Telecom	Vodafone	3/10	4/10	X
Telecom	Telent NRTS	2/10	4/10	
Transport	Network Rail	2/10	4/10	
Various	HSE	3/10	4/10	
Various	LinesearchbeforeUdig - ESP	3/10	4/10	
Water Mains	Thames Water	3/10	4/10	X
Water Sewers	Thames Water	3/10	4/10	X
District Energy	ENGIE	4/10	4/10	
Various	Local Council **	2/10	4/10	

Debbie Miller

From: Plant Enquiries <plantenquiries@energetics-uk.com>
Sent: 02 October 2018 12:08
To: Debbie Miller
Subject: RE: URGENT ASAP - Ref: 22630DM - Site : Land near Yarnton, Oxfordshire, OX5 1QD

Dear Sir/Madam,

Thank you for submitting your recent plant enquiry.

Based on the information provided, I can confirm that Energetics **does not** have any plant within the area(s) specified in your request.

If you require further assistance with outstanding enquiries, please call 03300 587 443.

Please ensure all plant enquiries are sent to plantenquiries@energetics-uk.com

Regards



Plant Enquiries

|
e: plantenquiries@energetics-uk.com | w: www.energetics-uk.com
a: Fenick House, Lister Way, Hamilton International Technology Park



From: Debbie Miller <DMiller@groundwise.com>

Sent: 02 October 2018 09:30

To: Plant Enquiries <plantenquiries@energetics-uk.com>; osm.enquiries@atkinsglobal.com;
plantenquiries@instalcom.co.uk; osp-team@uk.verizonbusiness.com; interroute.enquiries@plancast.co.uk;
telenttelia.plantenquiries@telent.com; plantenquiries@psgservices.co.uk; plantenquiries@catelecomuk.com;
NRSWA@bskyb.com; OPBuriedServicesEnquiries@networkrail.co.uk; plantenquiries@trafficmaster.co.uk;
mbnl.plant.enquiries@turntown.com; assetrecords@utilityassets.co.uk; kpn.plantenquiries@instalcom.co.uk

Subject: URGENT ASAP - Ref: 22630DM - Site : Land near Yarnton, Oxfordshire, OX5 1QD

Ref: 22630DM

Site : Land near Yarnton, Oxfordshire, OX5 1QD

Grid reference: 446998,212662

Requests: URGENT ASAP

For your reference, we have provided a site plan. Please use both the grid reference/postcode & site plan when responding to our requests.

We are doing research on the above site for a client and would be grateful if you could confirm whether the above operators have any cabling or apparatus in the immediate vicinity. Should there be anything detected in the vicinity plus 50 meters around the site, I would appreciate a plan showing the location. The reason we need the information is so our client can avoid digging through your cables or can investigate the potential for connecting with your network.

I enclose location plans of the site for your convenience and look forward to hearing from you. We shall of course be providing a copy of your response to our client as part of a wider report on the site including reports from other utility companies or providers.

GUIDE TO INTERPRETING MAINS RECORDS PLANS

PRODUCED BY MAPPING SERVICES



INTRODUCTION

The Health & Safety Executive have produced a document entitled 'Avoiding danger from underground services'. Copies are available from HMSO's accredited agents and good booksellers, Ref HS(G)47, ISBN 0118854925.

WHEN WORKING IN THE VICINITY OF ELECTRICITY CABLES AND OVERHEAD LINES PLEASE FOLLOW THE DO'S & DON'T'S LISTED BELOW.

DO'S

- Do** Make sure that you have plans of the cables in the area before any excavation work starts. Remember that some cables such as service cables may not be shown on the plans. Cables owned by other companies are not shown, e.g. local authorities, Department of the Environment, National Grid Co. etc.
- Do** Make sure that you understand the plans that have been supplied to you. For detailed explanation of the symbols used by Scottish & Southern Energy to display the cable information see Appendices.
- Do** Use a cable avoidance tool (CAT) to determine the position of the existing cables in the work area. The positions should be clearly marked and further tests made as work proceeds. **If in doubt, get advice from your supervisor.**
- Do** Hand dig trial holes over the indicated route of the cable, excavate alongside.
- Do** Ask for a cable to be made dead if it is buried in concrete. Please note that this is likely to be a costly process.
- Do** Watch for signs of cables as work progresses, such as marker tapes or cable covers which may be exposed.
- Do** Backfill carefully using stone free soil around cables, replacing marker tapes and covers.
- Do** Ensure that there is maximum clearance above all cable & joints.
- Do** Notify Scottish & Southern Energy immediately should accidental damage to cables occur however large or small. Arrange to keep people well clear of the cable that has been damaged. Do not backfill an area where cable damage has occurred.

DON'T'S

- Don't** Operate a bulldozer, scraper, dragline or excavator unless you are satisfied that there are no buried cables or overhead lines in the working area.
- Don't** Use picks, forks or pointed instruments in soft clay or soil where cables are present, exercise extreme caution where such instruments are used to free lumps of stone or to break up firmly compacted ground.
- Don't** Use exposed cables as a convenient step or handhold.
- Don't** Handle or attempt to alter the position of any cable.

REMEMBER THAT A DAMAGED CABLE MAY CAUSE EXTENSIVE LOSS OF SUPPLIES, MAKE EXPENSIVE REPAIRS NECESSARY AND CAUSE SERIOUS OR EVEN FATAL INJURY.

IF IN DOUBT ASK SCOTTISH & SOUTHERN ENERGY.

UNDERSTANDING THE CABLE INFORMATION ON THE PLANS

AVERAGE DEPTH OF CABLES:

Footpaths 0.6 metres

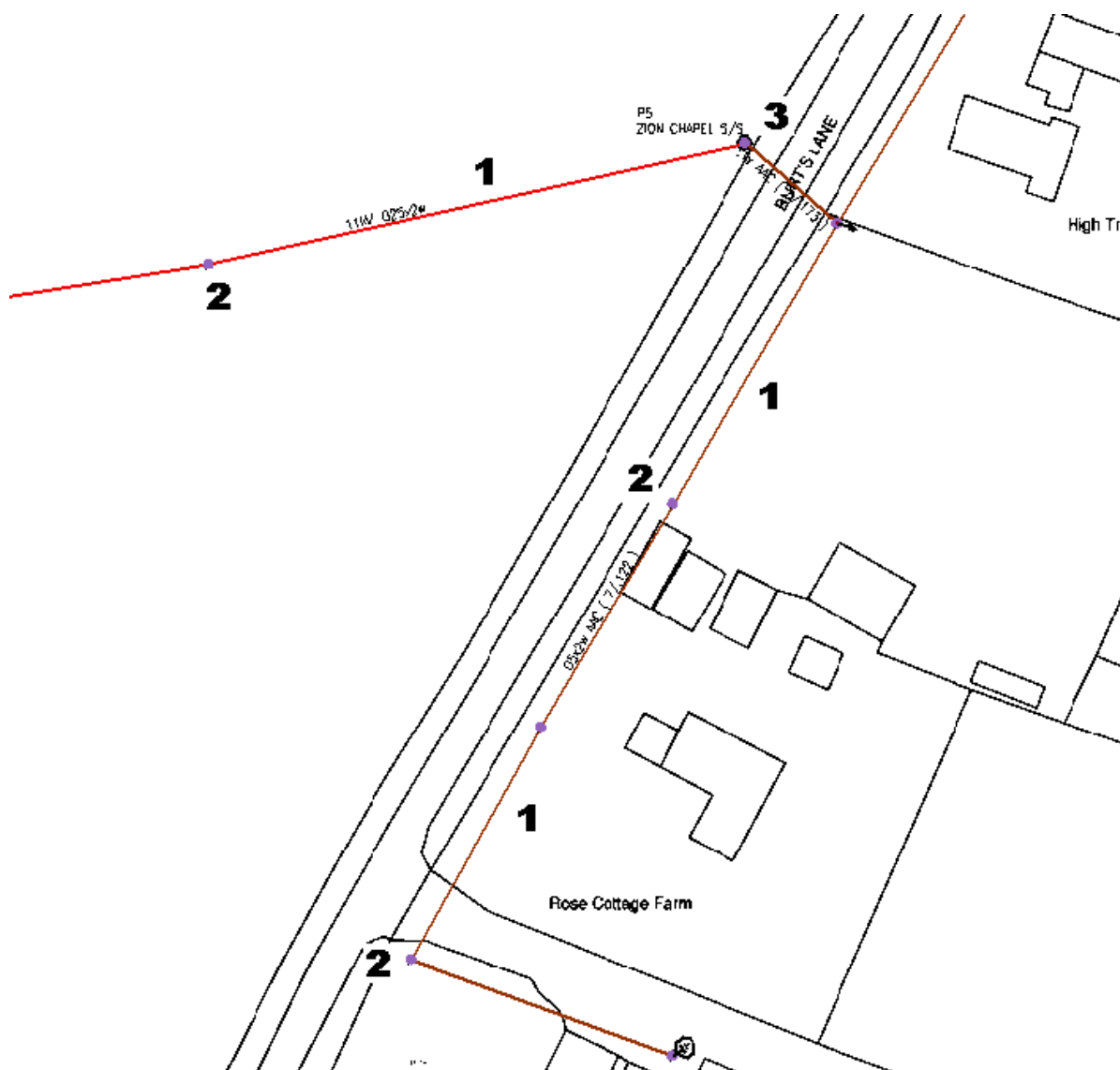
Road Crossings 0.75metres

NB These depths are only approximate, depths may vary. It should also be noted

That surface levels can change subsequent to the cables being laid.

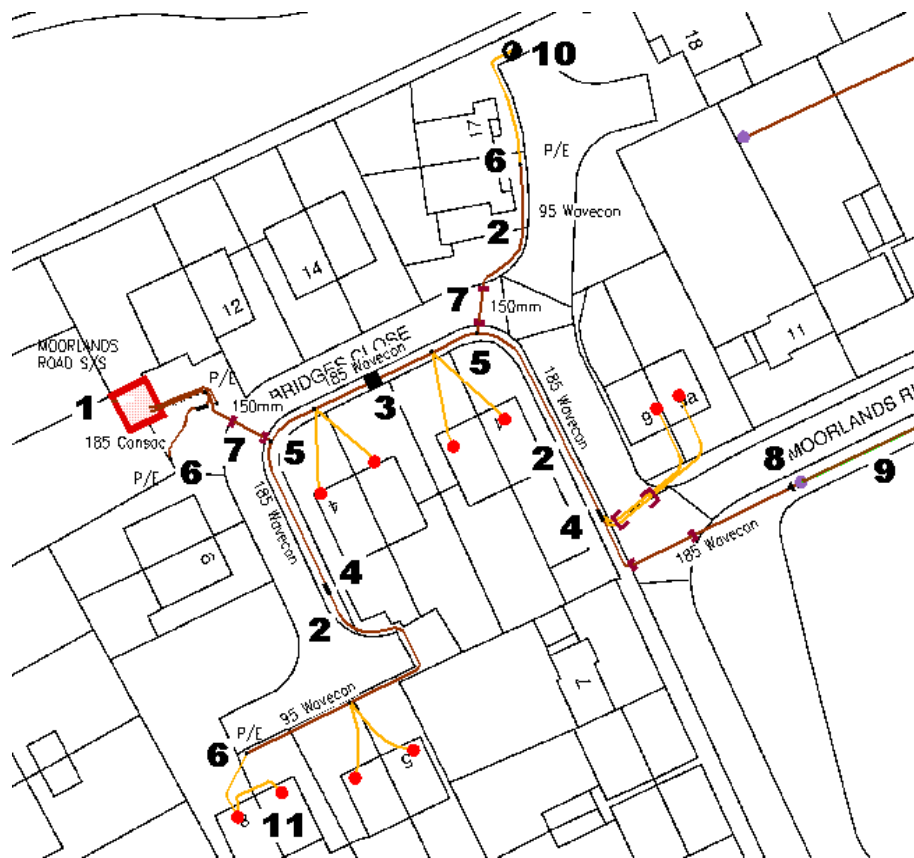
Mains records symbols definitions and examples:

A) Overhead lines & Poles – These are depicted as follows:



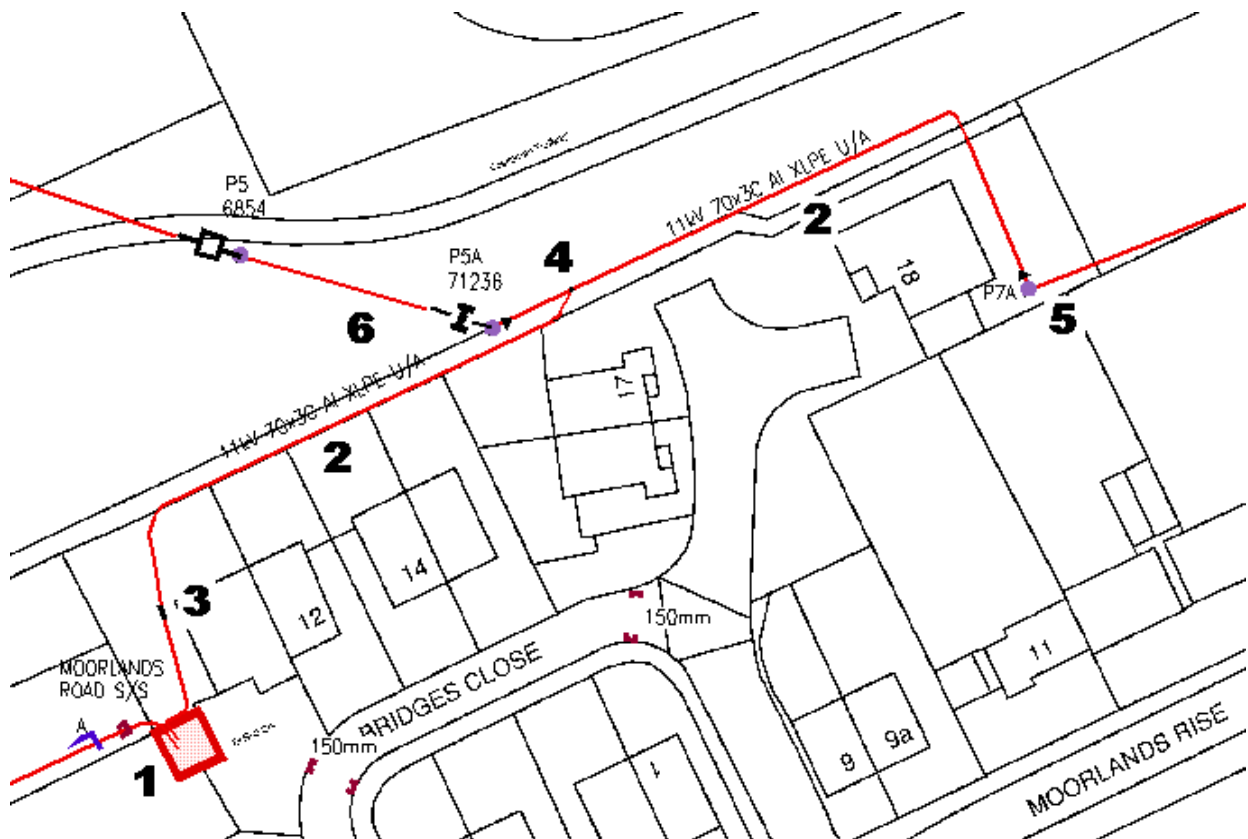
1. Overhead Line – These can be either High Voltage or Low Voltage, colour denotes voltage.
2. Poles.
3. Pole Mounted Transformer.

B) Typical example of Low Voltage cable records:



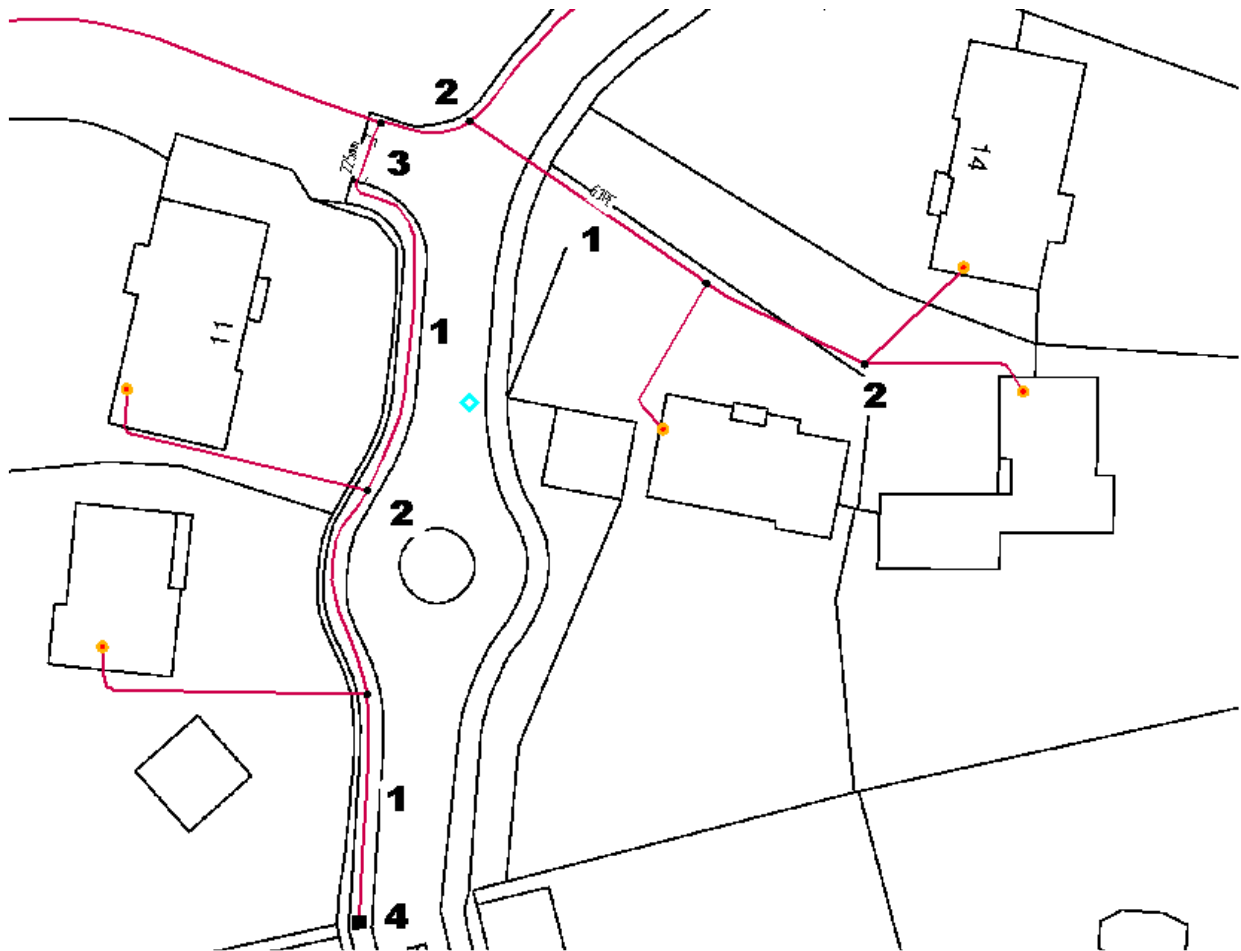
1. Sub Station
2. Low Voltage Underground cable.
3. Link Boxes: This is a box with a manhole cover marked as belonging to Scottish & Southern Energy containing links. Either two or four cables will lead away from a link box.
4. Straight Joint: This is where two separate cables are joined together.
5. Breech Joint: This is where another cable is attached to the main.
6. Pot End: This is the end of the cable. In certain circumstances service cables to properties can be taken from the pot end. These services may not be shown on the plans.
7. Road crossing duct where a cable is routed under a path or road.
8. Cable terminations/Pole Box: Where underground cables are connected to overhead lines
9. Overhead line.
10. Street Lamps.
11. Services to properties: The service cable to an individual property are not always shown on the mains records that Scottish & Southern Energy supply.
In some cases a service can be looped from an adjacent property.
Some services are laid through ducts from the mains to the meter position when laid.

C) Typical example of High Voltage cable record.



1. Sub Station
2. High Voltage Underground cable – Colour denotes voltage.
3. Straight Joint: This is where two separate cables are joined together.
4. Breech Joint: This is where another cable is attached to the main.
5. Cable terminations/Pole Box: Where underground cables are connected to overhead lines
6. Overhead Switch.

D) Typical example of Gas pipe record



1. Gas Pipes- Colour denotes pressure.

2. Gas joint

3. Road crossing duct where a pipe is routed under a path or road.


















































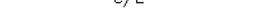


4. Connection Point. Position where network is connected to national gas suppliers network.

Further Notes.






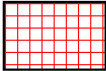


















The various sizes of cables and pipes are shown alongside the routes.

IF IN DOUBT ASK SCOTTISH & SOUTHERN ENERGY











GIS ELECTRIC SYMBOLS (SOUTH)

	LV UNDERGROUND SERVICE CABLE		POLE
	LV UNDERGROUND MAINS CABLE		POLE MOUNTED TRANSFORMER
	2KV-3.3KV UNDERGROUND CABLE		SUBSTATION
	6.6KV UNDERGROUND CABLE		LINK BOX
	11KV UNDERGROUND CABLE		PILLAR
	22KV UNDERGROUND CABLE		MAJOR PIPELINE
	33KV UNDERGROUND CABLE		ASSUMED ROUTE
	66KV UNDERGROUND CABLE		CROSS SECTION
	132KV UNDERGROUND CABLE		DUCTING
	LV OVERHEAD LINE		FLYING STAY
	2-3.3KV OVERHEAD LINE		PME EARTH
	6.6KV OVERHEAD LINE		NEUTRAL EARTH
	11KV OVERHEAD LINE		OIL/GAS GAUGE
	22KV OVERHEAD LINE		OIL/GAS TANK
	33KV OVERHEAD LINE		BALANCER
	66KV OVERHEAD LINE		REGULATOR
	132KV OVERHEAD LINE		PIT
	FIBRE OPTIC CABLE		SCHEMATIC CONNECTOR
	PILOT CABLE		SUPPLY LOCATION-PROPERTY
	CIRCUIT BREAKER		SUPPLY LOCATION-OTHER
	SWITCH DISCONNECTOR		SUPPLY LOCATION-STREET FURNITURE
	POLE BOX		
	STRAIGHT JOINT		
	TEE JOINT		
	TRIFURCATING JOINT		
	POT END JOINT		
	CAPPED END JOINT		
	SEALING END JOINT		
	SERVICE CONNECTOR JOINT		
	O/H CONNECTOR JOINT		
	WALL BOX JOINT		

GIS ELECTRIC SYMBOLS (NORTH)

	FIBRE OPTIC CABLE		LINK BOX
	PILOT CABLE		PILLAR
	6.6/11kV UNDERGROUND CABLE		SUBSTATION
	33kV UNDERGROUND CABLE		WATER PIPELINE
	132kV UNDERGROUND CABLE		OIL PIPELINE
	LOW VOLTAGE UNDERGROUND CABLE		GAS PIPELINE
	6.6/11kV OVERHEAD LINE		SWITCH DISCONNECTOR
	33kV OVERHEAD LINE		CIRCUIT BREAKER
	132/275kV OVERHEAD LINE		SUPPLY POINT
	LOW VOLTAGE OVERHEAD LINE		
	POLES		
	TOWER		
	POLE TERMINATION		
	JOINTS		
	DUCTING		

GIS Gas Symbols

	Medium Pressure Pipe	
	Low Pressure Pipe	
		Gas Ducting
		Gas Supply Point
		Gas Joint
		End Closure
		Pressure Reduction Station
		Gas Utility Connection Point
		Valve

GIS Environmental Guide

Countryside Agency



Areas of Outstanding Natural Beauty (AONB)



National Park

Environment Agency



Borehole



Water Extraction Point



Sensitive Waterway



Source Protection Zone



Vulnerability Zone

Forestry Commission



Access



Ownership

English Heritage/Historic Scotland



Monuments

SEPA



Flood Area



Flood Location

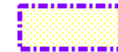
English Nature/Scottish Natural Heritage



Site of Special Scientific Interest (SSSI)



National Nature Reserve (NNR)



RAMSAR



Special Area of Conservation (SAC)



Special Protection Area (SPA)



Ancient Woodland

Areas of Concern



Contaminated



Cadmium



Methane



Heavy Metal-Unclassified



Asbestos



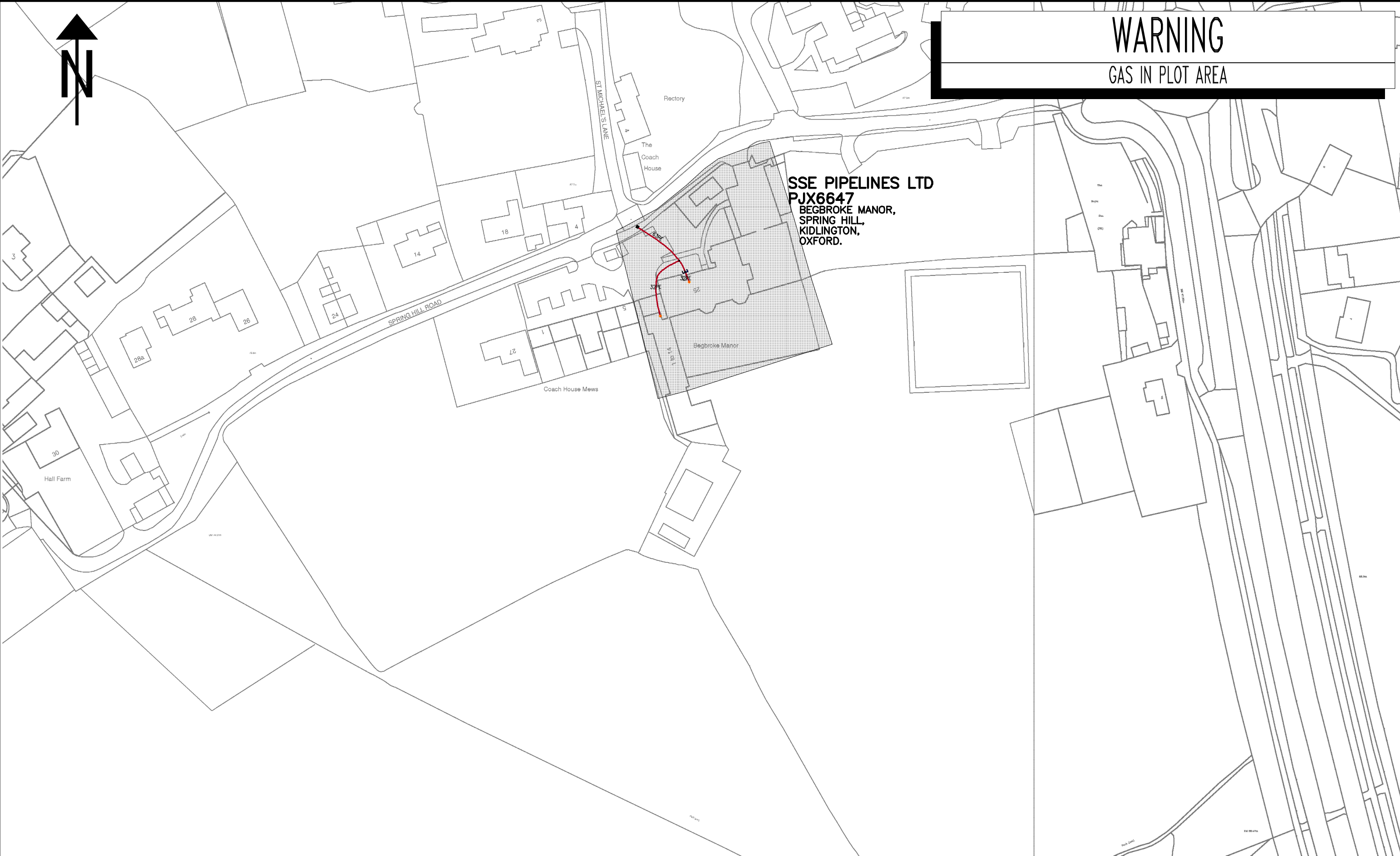
Ordnance




Mercury



Restricted Access

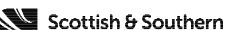


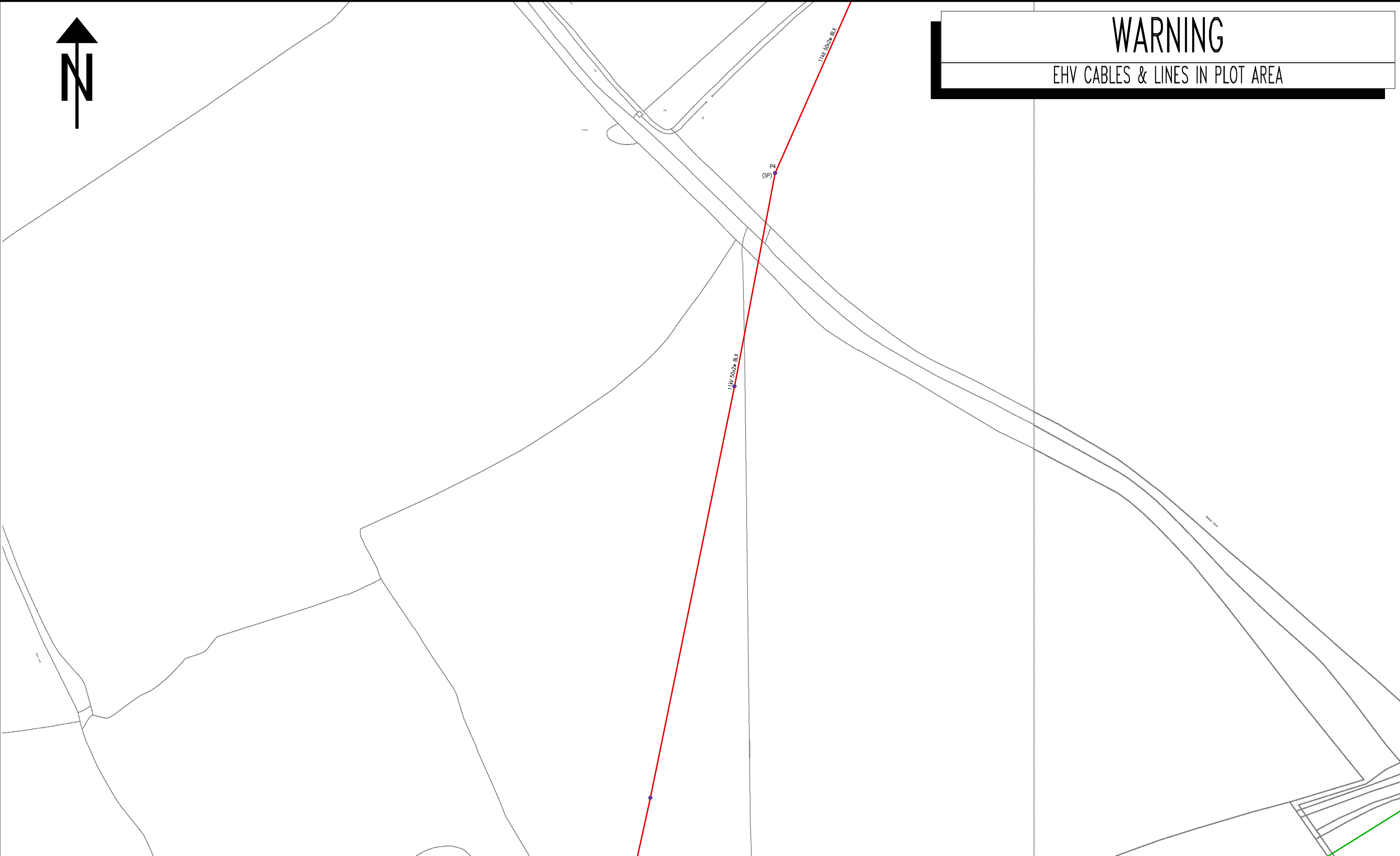
NORMAL DEPTH TO THE TOP OF THE PIPE WHEN LAID				<div>WARNING</div>		BASED UPON THE ORDNANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M. STATIONERY OFFICE. CROWN COPYRIGHT RESERVED. This copy has been made by or with the authority of Indigo Pipelines Ltd. pursuant to section 47 of the Copyright Designs and Patents Act 1988 ('the Act'). Unless the Act provides a relevant exception to copyright, the copy must not be copied without prior permission of the copyright owner. Template: SWS NBSWA COL A3 plot GAS		<div>indigo pipelines</div>	
MAINS		SERVICES		There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. (available from the HSE)		gas_1250_500		Grid Ref: sp46881376	
FOOTPATH	0.60m	PRIVATE	0.375m			22630DM		OXFORD 01865-845800	
VERGE	0.75m	PUBLIC	0.45m			UNCONTROLLED COPY		Scale: 1:1250	
ROAD	0.75m					Subject to Revision Master held at		Date: 03/10/2018	
				WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE GS6 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)		Indigo Pipelines Ltd. Registered in England and Wales No. 02742721 Registered Office : One London wall, London EC2Y 5AB.		GAS	




NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID					<div>WARNING</div> <p>There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. (available from the HSE)</p> <p>WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE GS6 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)</p>		BASED UPON THE ORDNANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M. STATIONERY OFFICE. CROWN COPYRIGHT RESERVED.			
	services	l.v.	h.v.	e.h.v.			hv_1250_500	Grid Ref: sp46881361		
FOOTPATH	0.40m	0.45m	0.60m	0.75m	<p>Southern Electric Power Distribution plc. Registered in England No. 04094290 Registered Office: No. 1 Forbury Place, 43 Forbury Road, Reading, RG1 3JH</p>	22630DM	OXFORD 01865-845800	Scale: 1:1250		
ROAD CROSSING	0.60m	0.60m	0.75m	0.90m		UNCONTROLLED COPY	Date: 03/10/2018			
l.v./services	– up to 1000V.				Subject to Revision Master held at		HV			
h.v.	– over 1000V. to 11,000V.									
e.h.v.	– 22,000V. to 132,000V.									



NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID					<div>WARNING</div> <p>There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. (available from the HSE)</p> <p>WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE GS6 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)</p>		BASED UPON THE ORDNANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M. STATIONERY OFFICE. CROWN COPYRIGHT RESERVED.			
	services	l.v.	h.v.	e.h.v.			hv_1250_500	Grid Ref: sp46881345		
FOOTPATH	0.40m	0.45m	0.60m	0.75m	<p>Southern Electric Power Distribution plc. Registered in England No. 04094290 Registered Office: No. 1 Forbury Place, 43 Forbury Road, Reading, RG1 3JH</p>	22630DM	OXFORD 01865-845800	Scale: 1:1250		
ROAD CROSSING	0.60m	0.60m	0.75m	0.90m		UNCONTROLLED COPY	Date: 03/10/2018			
l.v./services	– up to 1000V.				Subject to Revision Master held at			HV		
h.v.	– over 1000V. to 11,000V.									
e.h.v.	– 22,000V. to 132,000V.									



NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID					<div>WARNING</div>		BASED UPON THE ORDNANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M. STATIONERY OFFICE. CROWN COPYRIGHT RESERVED.		<div></div>			
	services	l.v.	h.v.	e.h.v.	This copy has been made by or with the authority of Southern Electric Power Distribution plc. pursuant to section 47 of the Copyright, Designs and Patents Act 1988 ('the Act'). Unless the Act provides a relevant exception to copyright, the copy must not be copied without the prior permission of the copyright owner. Template: SIAS MRSWA COL A5 plot					hv_1250_500	Grid Ref: sp46881330	
FOOTPATH	0.40m	0.45m	0.60m	0.75m	There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. (available from the HSE)					22630DM	OXFORD	
ROAD CROSSING	0.60m	0.60m	0.75m	0.90m						01865-845800	Scale: 1:1250	
l.v./services	– up to 1000V.									UNCONTROLLED COPY	Subject to Revision Master held at	Date: 03/10/2018
h.v.	– over 1000V. to 11,000V.											HV
e.h.v.	– 22,000V. to 132,000V.											
WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE G56 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)												



WARNING

EHV CABLES & LINES IN PLOT AREA

WARNING

EHV CABLES & LINES IN PLOT AREA

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
	services	l.v.	h.v.	e.h.v.
FOOTPATH	0.40m	0.45m	0.60m	0.75m
ROAD CROSSING	0.60m	0.60m	0.75m	0.90m
l.v./services	– up to 1000V.			
h.v.	– over 1000V. to 11,000V.			
e.h.v.	– 22,000V. to 132,000V.			

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
	services	l.v.	h.v.	e.h.v.
FOOTPATH	0.40m	0.45m	0.60m	0.75m
ROAD CROSSING	0.60m	0.60m	0.75m	0.90m
l.v./services	– up to 1000V.			
h.v.	– over 1000V. to 11,000V.			
e.h.v.	– 22,000V. to 132,000V.			

WARNING

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
	services	l.v.	h.v.	e.h.v.
FOOTPATH	0.40m	0.45m	0.60m	0.75m
ROAD CROSSING	0.60m	0.60m	0.75m	0.90m
l.v./services	– up to 1000V.			
h.v.	– over 1000V. to 11,000V.			
e.h.v.	– 22,000V. to 132,000V.			

WARNING

There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. IS (G) 47 Booklet from the Health and Safety Executive - Avoiding Danger from Buried Cables - should be consulted before commencing excavation work. (available from the HSE)

WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE G36 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
	services	l.v.	h.v.	e.h.v.
FOOTPATH	0.40m	0.45m	0.60m	0.75m
ROAD CROSSING	0.60m	0.60m	0.75m	0.90m
l.v./services	– up to 1000V.			
h.v.	– over 1000V. to 11,000V.			
e.h.v.	– 22,000V. to 132,000V.			

WARNING

There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. IS (G) 47 Booklet from the Health and Safety Executive - Avoiding Danger from Buried Cables - should be consulted before commencing excavation work. (available from the HSE)

WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE G36 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)

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<p>Template: SIAS NSWGA COL A3 plot</p>	
<p>Southern Electric Power Distribution plc. Registered in England No. 04094290 Registered Office: No. 1 Forbury Place, 43 Forbury Road, Reading, RG1 3JH</p>	<p>22630DM</p> <p>UNCONTROLLED COPY</p> <p>Subject to Revision Master held at</p>

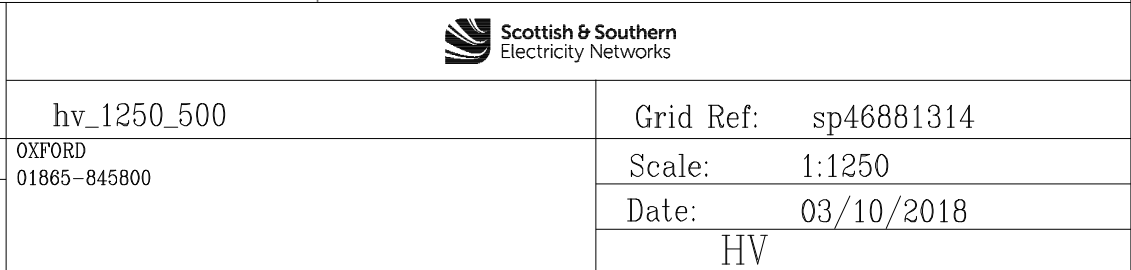
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<p>Template: SIAS NSWGA COL A3 plot</p>	
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<p>Template: SIAS NSWGA COL A3 plot</p>	
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<p>Template: SIAS NSWGA COL A3 plot</p>	
<p>Southern Electric Power Distribution plc. Registered in England No. 04094290 Registered Office: No. 1 Forbury Place, 43 Forbury Road, Reading, RG1 3JH</p>	<p>22630DM</p> <p>UNCONTROLLED COPY</p> <p>Subject to Revision Master held at</p>


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<p>Template: SIAS NSWGA COL A3 plot</p>	
<p>Southern Electric Power Distribution plc. Registered in England No. 04094290 Registered Office: No. 1 Forbury Place, 43 Forbury Road, Reading, RG1 3JH</p>	<p>22630DM</p> <p>UNCONTROLLED COPY</p> <p>Subject to Revision Master held at</p>


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<p>Template: SIAS NSWGA COL A3 plot</p>	
<p>Southern Electric Power Distribution plc. Registered in England No. 04094290 Registered Office: No. 1 Forbury Place, 43 Forbury Road, Reading, RG1 3JH</p>	<p>22630DM</p> <p>UNCONTROLLED COPY</p> <p>Subject to Revision Master held at</p>





 Scottish & Southern Electricity Networks	
hv_1250_500 OXFORD 01865-845800	Grid Ref: sp46881314 Scale: 1:1250 Date: 03/10/2018 HV


 Scottish & Southern Electricity Networks	
hv_1250_500 OXFORD 01865-845800	Grid Ref: sp46881314 Scale: 1:1250 Date: 03/10/2018 HV

 Scottish & Southern Electricity Networks	
hv_1250_500 OXFORD 01865-845800	Grid Ref: sp46881314 Scale: 1:1250 Date: 03/10/2018 HV


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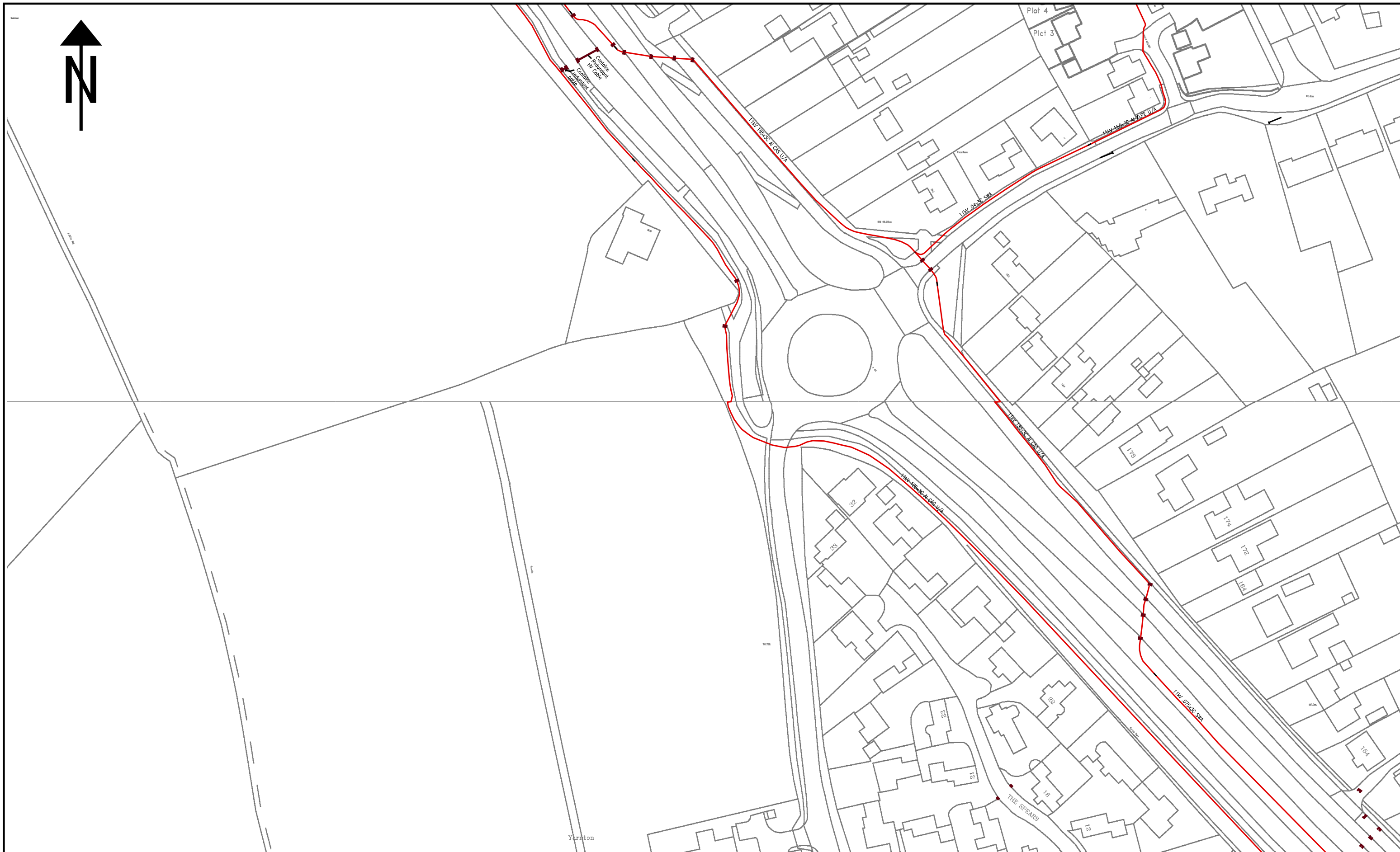
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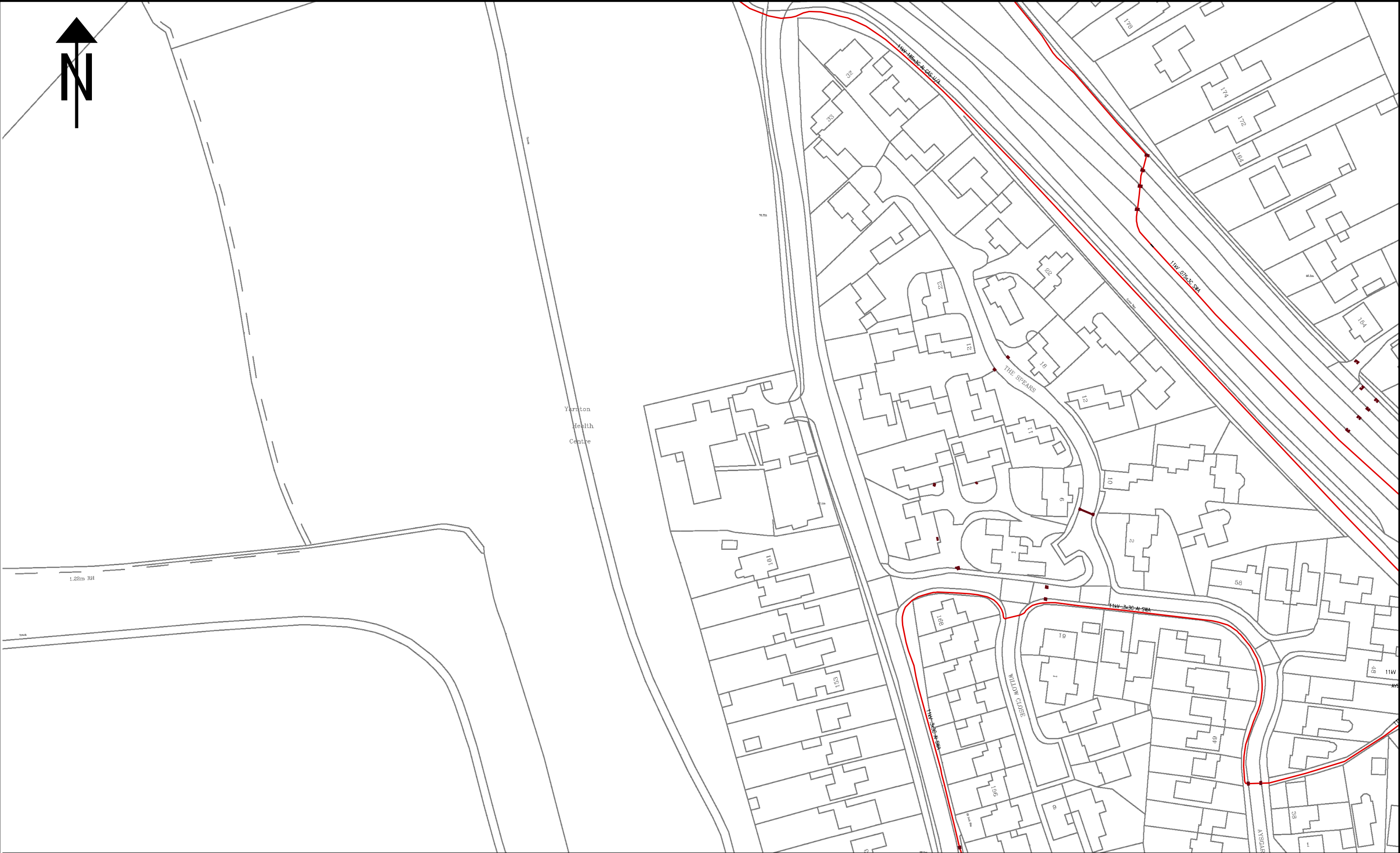
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hv_1250_500 OXFORD 01865-845800	Grid Ref: sp46881314 Scale: 1:1250 Date: 03/10/2018 HV




NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID					<div>WARNING</div> <div>There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. (available from the HSE)</div> <div>WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE GS6 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)</div>		BASED UPON THE ORDNANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M. STATIONERY OFFICE. CROWN COPYRIGHT RESERVED.				
services	l.v.	h.v.	e.h.v.	hv_1250_500			Grid Ref:	sp47131314			
FOOTPATH	0.40m	0.45m	0.60m	0.75m	This copy has been made by or with the authority of Southern Electric Power Distribution plc. pursuant to section 47 of the Copyright, Designs and Patents Act 1988 ('the Act'). Unless the Act provides a relevant exception to copyright, the copy must not be copied without the prior permission of the copyright owner. Template: SIAS MRSWA COL A5 plot		22630DM	OXFORD	Scale:	1:1250	
ROAD CROSSING	0.60m	0.60m	0.75m	0.90m	Southern Electric Power Distribution plc. Registered in England No. 04094290 Registered Office: No. 1 Forbury Place, 43 Forbury Road, Reading, RG1 3JH		UNCONTROLLED COPY Subject to Revision Master held at	01865-845800	Date:	03/10/2018	
l.v./services	– up to 1000V.									HV	
h.v.	– over 1000V. to 11,000V.										
e.h.v.	– 22,000V. to 132,000V.										




NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID					<div>WARNING</div> <p>There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables should be consulted before commencing excavation work. (available from the HSE)</p> <p>WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE G36 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)</p>	BASED UPON THE ORDNANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M. STATIONERY OFFICE. CROWN COPYRIGHT RESERVED.				
	services	l.v.	h.v.	e.h.v.		This copy has been made by or with the authority of Southern Electric Power Distribution plc, pursuant to section 47 of the Copyright, Designs and Patents Act 1988 (the Act). Unless the Act provides a relevant exception to copyright, the copy must not be copied without the prior permission of the copyright owner. Template: S&S NRSWA COL A3 plot		22630DM	hv_1250_500	Grid Ref: sp47391299
FOOTPATH	0.40m	0.45m	0.60m	0.75m		Southern Electric Power Distribution plc. Registered in England No. 04094290 Registered Office: No. 1 Forbury Place, 43 Forbury Road, Reading, RG1 3JH		UNCONTROLLED COPY Subject to Revision Master held at	OXFORD 01865-845800	Scale: 1:1250
ROAD CROSSING	0.60m	0.60m	0.75m	0.90m						Date: 03/10/2018
l.v./services	– up to 1000V.								HV	
h.v.	– over 1000V. to 11,000V.									
e.h.v.	– 22,000V. to 132,000V.									

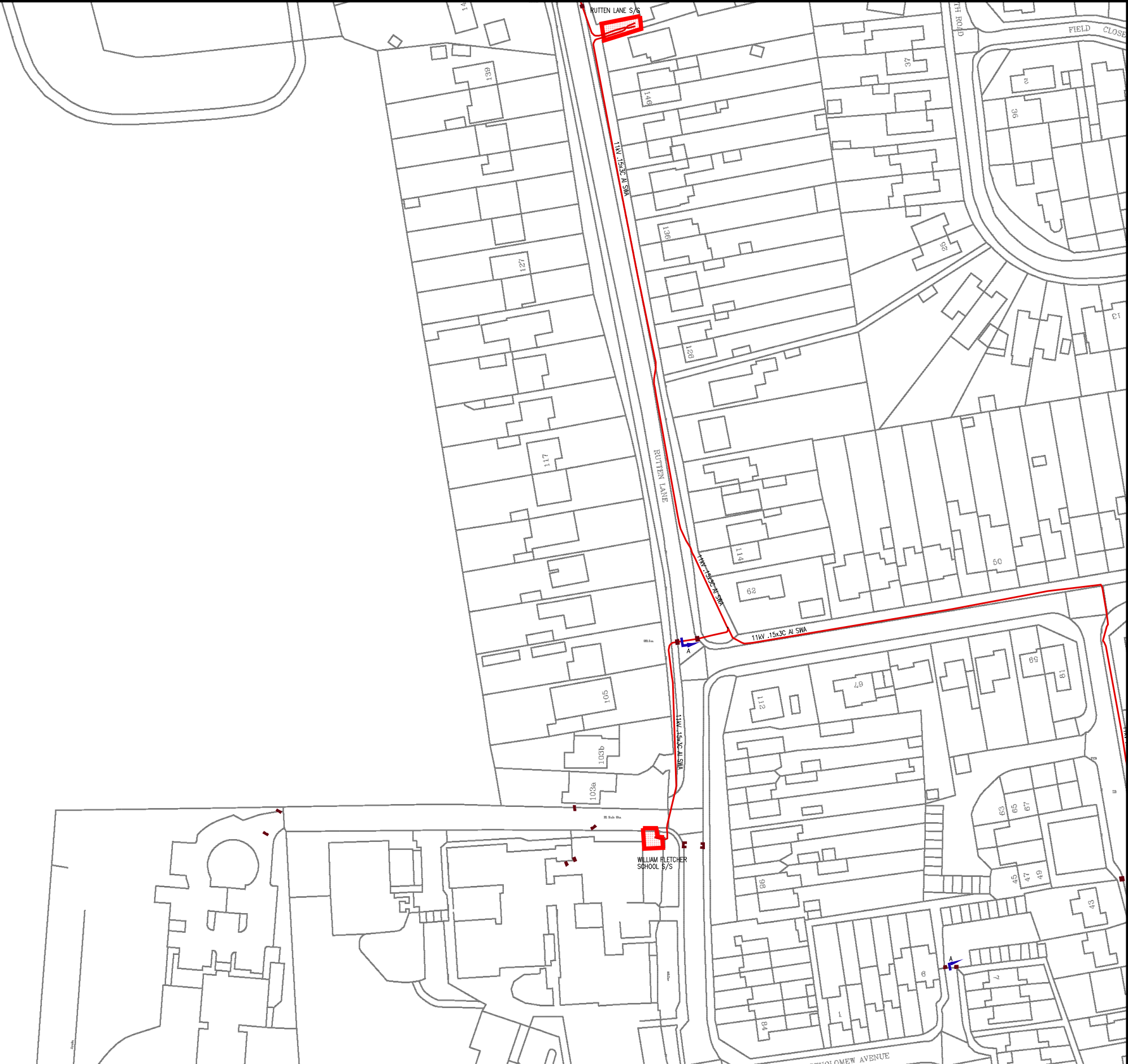



NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID					<div>WARNING</div> <p>There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. (available from the HSE)</p> <p>WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE GS6 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)</p>					BASED UPON THE ORDNANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M. STATIONERY OFFICE. CROWN COPYRIGHT RESERVED.					<div></div>				
services	l.v.	h.v.	e.h.v.																
FOOTPATH	0.40m	0.45m	0.60m	0.75m						hv_1250_500					Grid Ref: sp47391283				
ROAD CROSSING	0.60m	0.60m	0.75m	0.90m						OXFORD 01865-845800					Scale: 1:1250				
l.v./services	– up to 1000V.														Date: 03/10/2018				
h.v.	– over 1000V. to 11,000V.														HV				
e.h.v.	– 22,000V. to 132,000V.																		

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NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID					<div>WARNING</div>		BASED UPON THE ORDNANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M. STATIONERY OFFICE. CROWN COPYRIGHT RESERVED.		<div></div>	
services l.v. h.v. e.h.v.										
FOOTPATH 0.40m 0.45m 0.60m 0.75m									hv_1250_500	
ROAD CROSSING 0.60m 0.60m 0.75m 0.90m									OXFORD 01865-845800	
l.v./services – up to 1000V.					<div>There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. (available from the HSE)</div> <div>WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE GS6 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)</div>		Southern Electric Power Distribution plc. Registered in England No. 04094290 Registered Office: No. 1 Forbury Place, 43 Forbury Road, Reading, RG1 3JH		22630DM	
h.v. – over 1000V. to 11,000V.										
e.h.v. – 22,000V. to 132,000V.										
							UNCONTROLLED COPY			
							Subject to Revision Master held at			
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									Date: 03/10/2018	
									HV	




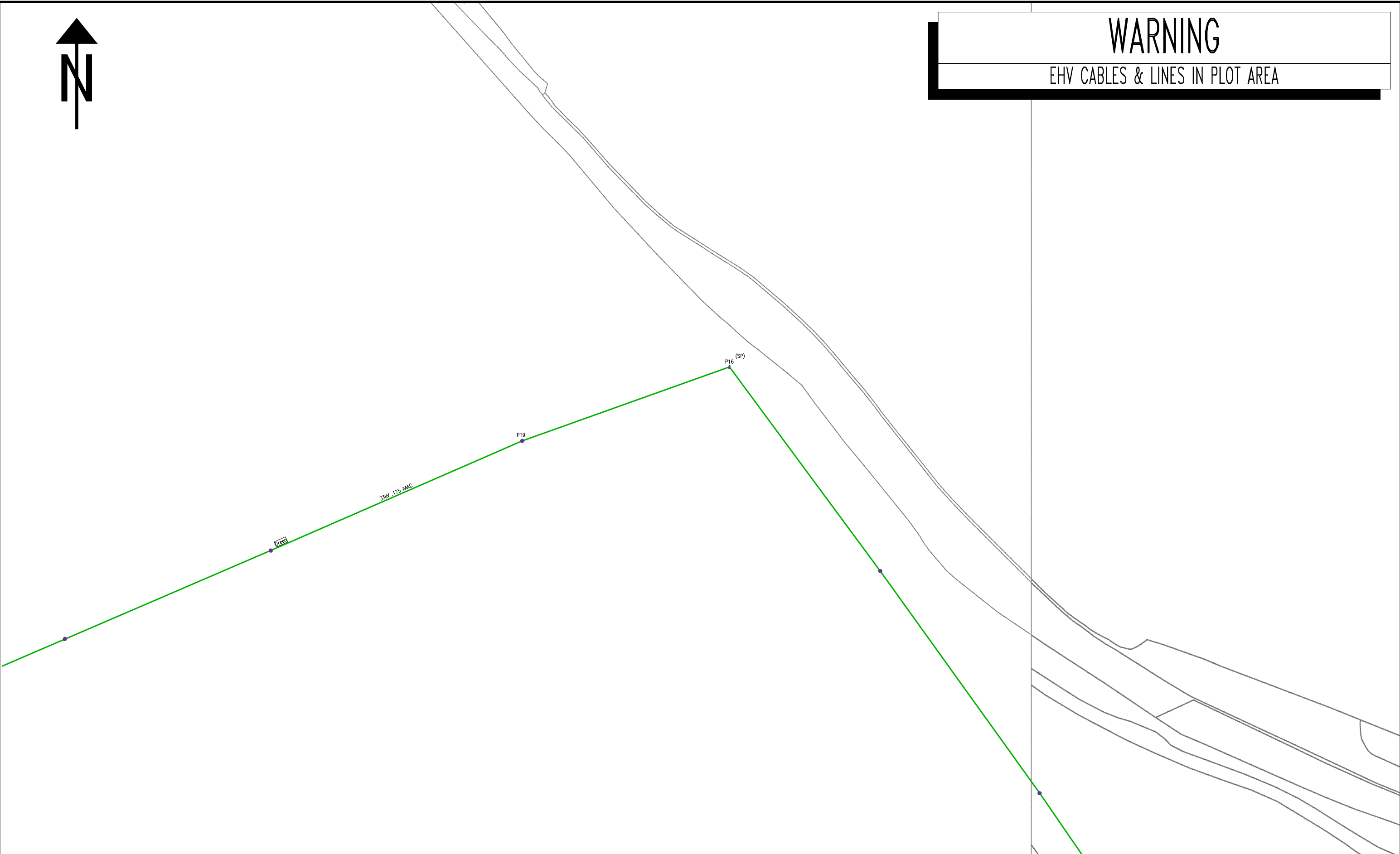
NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				<div>WARNING</div> <p>There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. HS (G) 47 Booklet from the Health and Safety Executive - Avoiding Danger from Buried Cables - should be consulted before commencing excavation work. (available from the HSE)</p> <p>WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE GS6 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)</p>	BASED UPON THE ORDNANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M. STATIONERY OFFICE. CROWN COPYRIGHT RESERVED.			
	services	l.v.	h.v.	e.h.v.	This copy has been made by or with the authority of Southern Electric Power Distribution plc. pursuant to section 47 of the Copyright, Designs and Patents Act 1988 (the Act). Unless the Act provides a relevant exception to copyright, the copy must not be copied without the prior permission of the copyright owner. Template: SIAS MRSWA COL A5 plot		hv_1250_500	Grid Ref: sp47391252
FOOTPATH	0.40m	0.45m	0.60m	0.75m	Southern Electric Power Distribution plc. Registered in England No. 04094290 Registered Office: No. 1 Forbury Place, 43 Forbury Road, Reading, RG1 3JH	22630DM	OXFORD 01865-845800	Scale: 1:1250
ROAD CROSSING	0.60m	0.60m	0.75m	0.90m		UNCONTROLLED COPY Subject to Revision Master held at		Date: 03/10/2018
l.v./services	- up to 1000V.						HV	
h.v.	- over 1000V. to 11,000V.							
e.h.v.	- 22,000V. to 132,000V.							



NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID					<div>WARNING</div> <p>There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. (available from the HSE)</p> <p>WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE GS6 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)</p>		BASED UPON THE ORDNANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M. STATIONERY OFFICE. CROWN COPYRIGHT RESERVED.					
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					Template: SIAS NSWAA COL A5 plot		22630DM		OXFORD 01865-845800		Scale: 1:1250	
					Southern Electric Power Distribution plc. Registered in England No. 04094290 Registered Office: No. 1 Forbury Place, 43 Forbury Road, Reading, RG1 3JH		UNCONTROLLED COPY				Date: 03/10/2018	
							Subject to Revision Master held at				HV	
services l.v. h.v. e.h.v.												
FOOTPATH 0.40m 0.45m 0.60m 0.75m												
ROAD CROSSING 0.60m 0.60m 0.75m 0.90m												
l.v./services – up to 1000V.												
h.v. – over 1000V. to 11,000V.												
e.h.v. – 22,000V. to 132,000V.												



NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID					<div>WARNING</div> <p>There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. (available from the HSE)</p> <p>WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE GS6 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)</p>		BASED UPON THE ORDNANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M. STATIONERY OFFICE. CROWN COPYRIGHT RESERVED.					
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FOOTPATH 0.40m 0.45m 0.60m 0.75m					Southern Electric Power Distribution plc. Registered in England No. 04094290 Registered Office: No. 1 Forbury Place, 43 Forbury Road, Reading, RG1 3JH		22630DM		OXFORD 01865-845800		Scale: 1:1250	
ROAD CROSSING 0.60m 0.60m 0.75m 0.90m							UNCONTROLLED COPY				Date: 03/10/2018	
l.v./services – up to 1000V.							Subject to Revision Master held at				HV	
h.v. – over 1000V. to 11,000V.												
e.h.v. – 22,000V. to 132,000V.												



WARNING

EHV CABLES & LINES IN PLOT AREA

WARNING

EHV CABLES & LINES IN PLOT AREA

P19

Green

	services	l.v.	h.v.	e.h.v.
FOOTPATH	0.40m	0.45m	0.60m	0.75m
ROAD CROSSING	0.60m	0.60m	0.75m	0.90m
l.v./services	– up to 1000V.			
h.v.	– over 1000V. to 11,000V.			
e.h.v.	– 22,000V. to 132,000V.			

WARNING

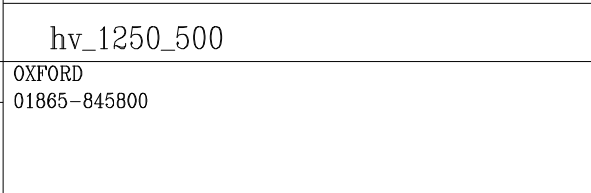
WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE GS6 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)

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Template: SIAS NRSWA COL A3 plot

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43 Forbury Road, Reading, RG1 3JH

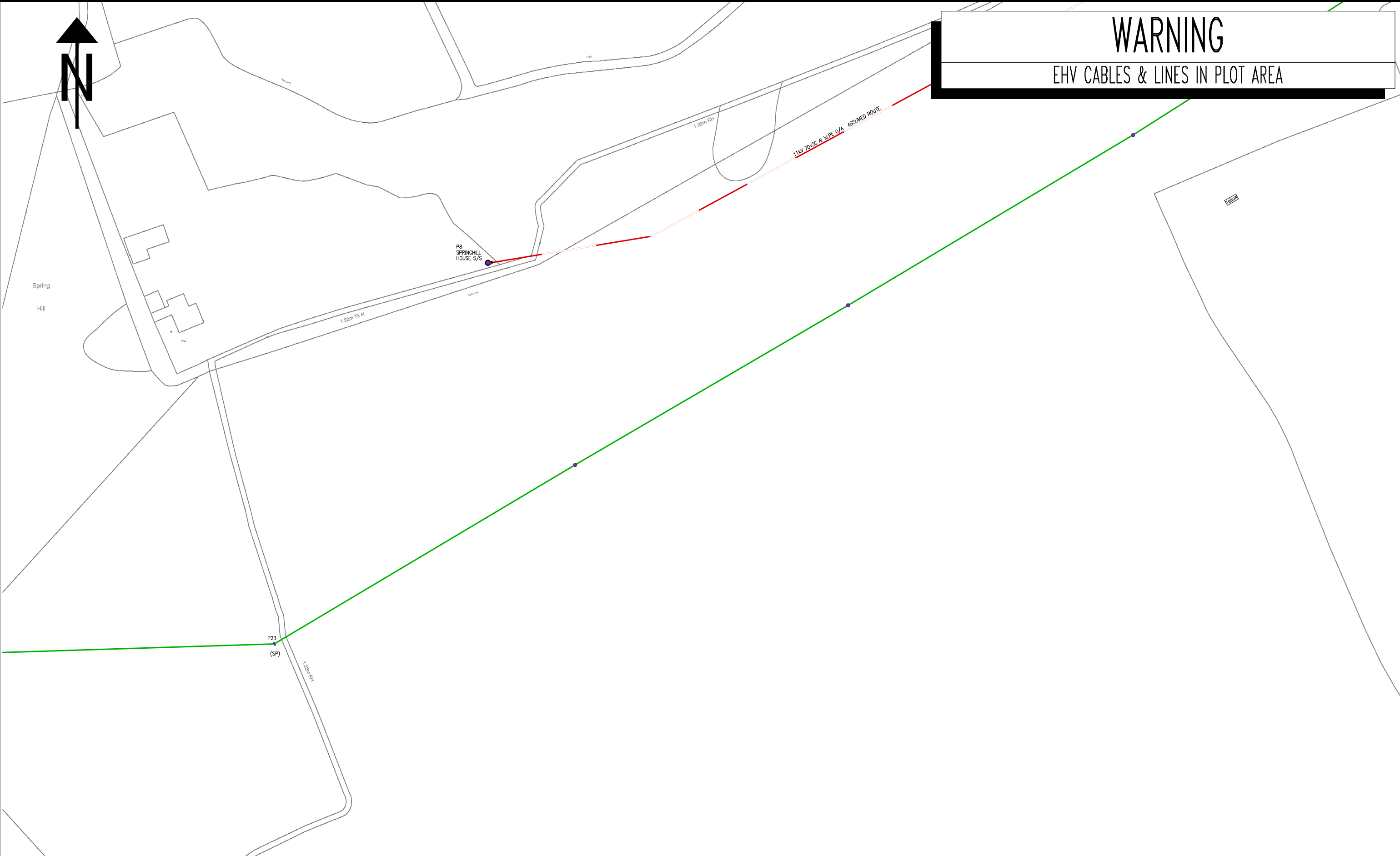
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Subject to Revision Master held at




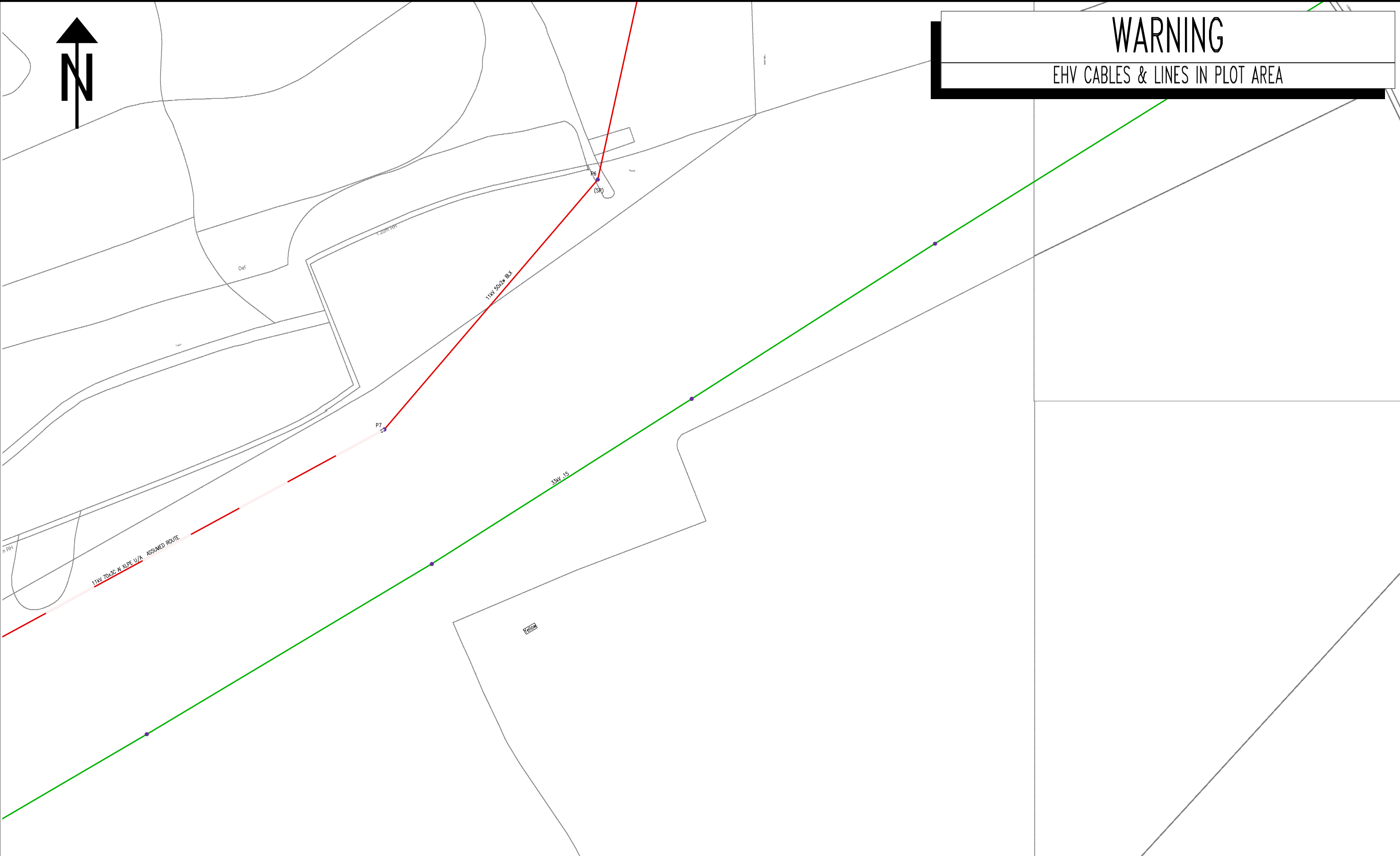
Scale: 1:1250

Date: 03/10/2018

HV



NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID					<div>WARNING</div> <p>There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. (available from the HSE)</p> <p>WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE GS6 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)</p>		BASED UPON THE ORDNANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M. STATIONERY OFFICE. CROWN COPYRIGHT RESERVED.			
	services	l.v.	h.v.	e.h.v.			hv_1250_500	Grid Ref: sp46621283		
FOOTPATH	0.40m	0.45m	0.60m	0.75m	<p>Southern Electric Power Distribution plc. Registered in England No. 04094290 Registered Office: No. 1 Forbury Place, 43 Forbury Road, Reading, RG1 3JH</p> <p>UNCONTROLLED COPY</p> <p>Subject to Revision Master held at</p>	22630DM	OXFORD 01865-845800	Scale: 1:1250		
ROAD CROSSING	0.60m	0.60m	0.75m	0.90m		Date: 03/10/2018				
l.v./services	– up to 1000V.					HV				
h.v.	– over 1000V. to 11,000V.									
e.h.v.	– 22,000V. to 132,000V.									



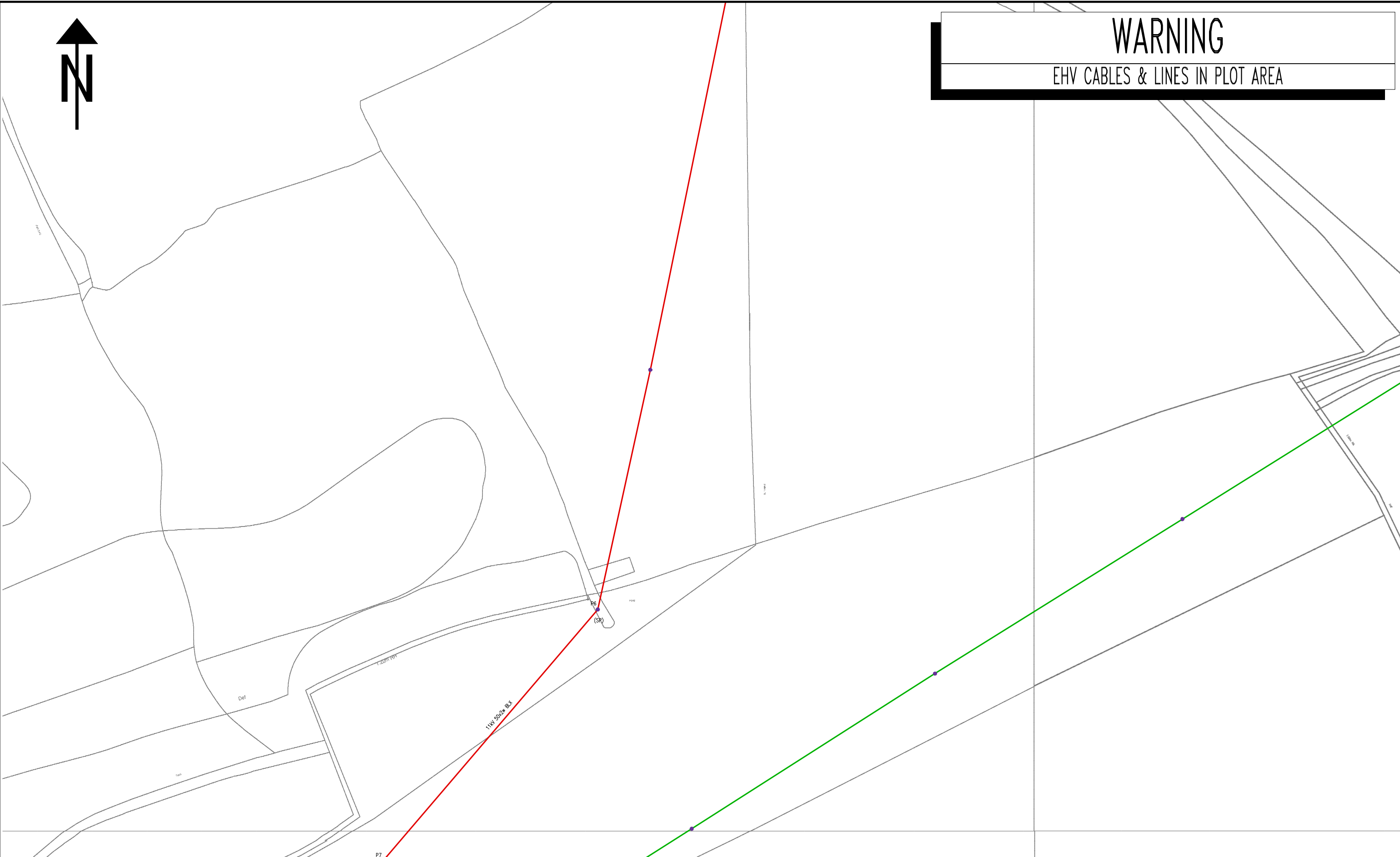
NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID					<div>WARNING</div> <p>There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. (available from the HSE)</p> <p>WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE GS6 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)</p>	BASED UPON THE ORDNANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M. STATIONERY OFFICE. CROWN COPYRIGHT RESERVED.				
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						Template: SIAS MRSWA COL A5 plot		22630DM		OXFORD 01865-845800
						Southern Electric Power Distribution plc. Registered in England No. 04094290 Registered Office: No. 1 Forbury Place, 43 Forbury Road, Reading, RG1 3JH		UNCONTROLLED COPY		Date: 03/10/2018
								Subject to Revision Master held at		HV


services	l.v.	h.v.	e.h.v.
FOOTPATH	0.40m	0.45m	0.60m 0.75m
ROAD CROSSING	0.60m	0.60m	0.75m 0.90m
l.v./services	– up to 1000V.		
h.v.	– over 1000V. to 11,000V.		
e.h.v.	– 22,000V. to 132,000V.		

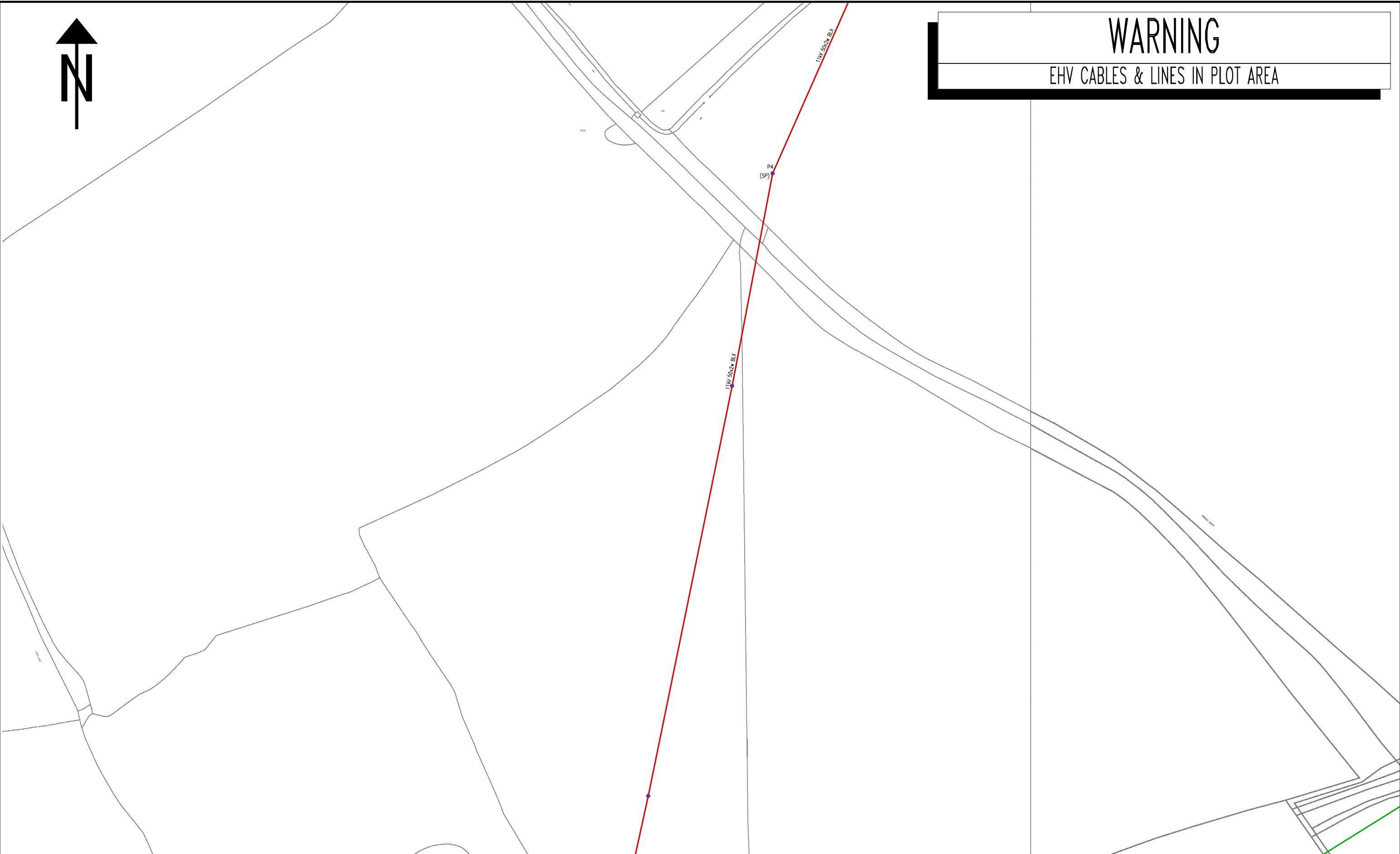


WARNING

EHV CABLES & LINES IN PLOT AREA



NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID					<div>WARNING</div> <p>There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. (available from the HSE)</p> <p>WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE GS6 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)</p>	BASED UPON THE ORDNANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M. STATIONERY OFFICE. CROWN COPYRIGHT RESERVED.			
services	l.v.	h.v.	e.h.v.	hv_1250_500		Grid Ref: sp46881314			
FOOTPATH	0.40m	0.45m	0.60m	0.75m			OXFORD	Scale: 1:1250	
ROAD CROSSING	0.60m	0.60m	0.75m	0.90m			01865-845800	Date: 03/10/2018	
l.v./services	– up to 1000V.								HV
h.v.	– over 1000V. to 11,000V.								
e.h.v.	– 22,000V. to 132,000V.								
					Southern Electric Power Distribution plc. Registered in England No. 04094290 Registered Office: No. 1 Forbury Place, 43 Forbury Road, Reading, RG1 3JH		22630DM		
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WARNING

EHV CABLES & LINES IN PLOT AREA

WARNING

EHV CABLES & LINES IN PLOT AREA

	services	l.v.	h.v.	e.h.v.
FOOTPATH	0.40m	0.45m	0.60m	0.75m
ROAD CROSSING	0.60m	0.60m	0.75m	0.90m
l.v./services	– up to 1000V.			
h.v.	– over 1000V. to 11,000V.			
e.h.v.	– 22,000V. to 132,000V.			

WARNING

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

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<p>Template: SIAS NSW A CQL A3 plot</p>	
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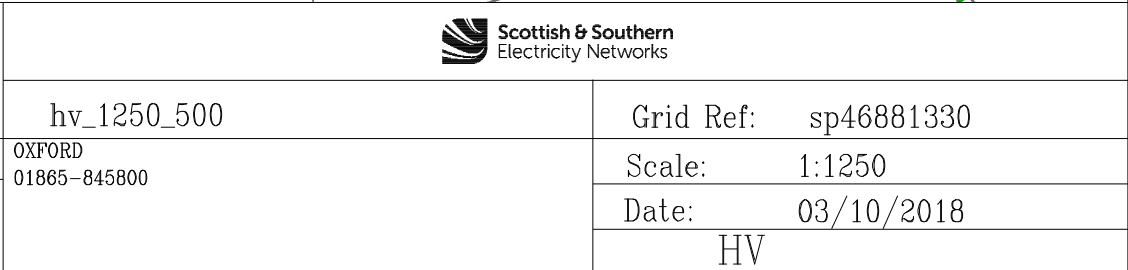
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<p>Template: SIAS NSW A CQL A3 plot</p>	
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<p>Template: SIAS NSW A CQL A3 plot</p>	
<p>Southern Electric Power Distribution plc. Registered in England No. 04094290 Registered Office: No. 1 Forbury Place, 43 Forbury Road, Reading, RG1 3JH</p>	<p>22630DM</p> <p>UNCONTROLLED COPY</p> <p>Subject to Revision Master held at</p>


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<p>Template: SIAS NSW A CQL A3 plot</p>	
<p>Southern Electric Power Distribution plc. Registered in England No. 04094290 Registered Office: No. 1 Forbury Place, 43 Forbury Road, Reading, RG1 3JH</p>	<p>22630DM</p> <p>UNCONTROLLED COPY</p> <p>Subject to Revision Master held at</p>


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<p>Template: SIAS NSW A CQL A3 plot</p>	
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<p>Template: SIAS NSW A CQL A3 plot</p>	
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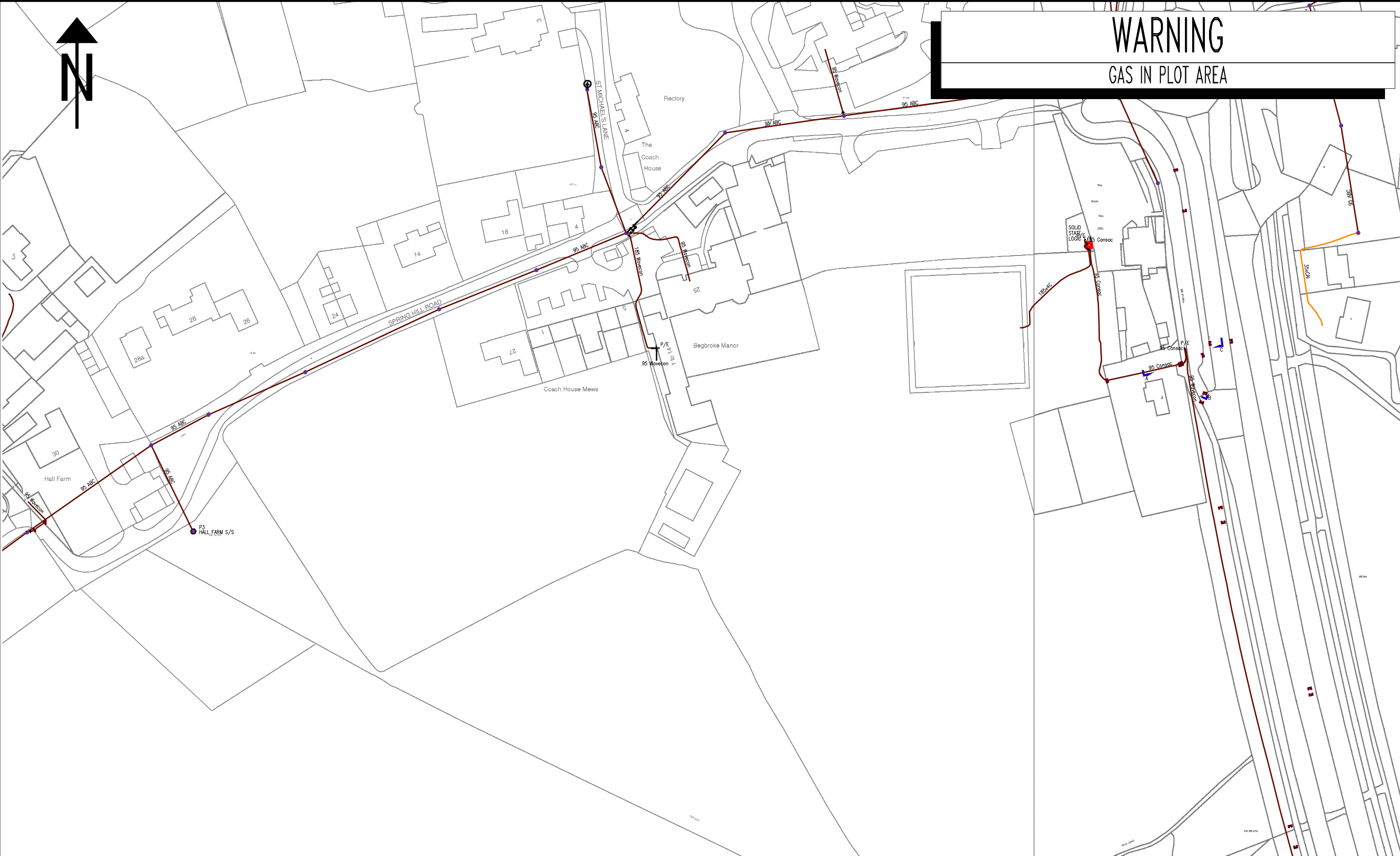
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OXFORD 01865-845800	Scale: 1:1250
	Date: 03/10/2018
	HV

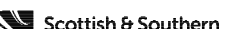
 Scottish & Southern Electricity Networks	
hv_1250_500	Grid Ref: sp46881330
OXFORD 01865-845800	Scale: 1:1250
	Date: 03/10/2018
	HV

 Scottish & Southern Electricity Networks	
hv_1250_500	Grid Ref: sp46881330
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hv_1250_500	Grid Ref: sp46881330
OXFORD 01865-845800	Scale: 1:1250
	Date: 03/10/2018
	HV

 Scottish & Southern Electricity Networks	
hv_1250_500	Grid Ref: sp46881330
OXFORD 01865-845800	Scale: 1:1250
	Date: 03/10/2018
	HV



NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID					<div>WARNING</div> <p>There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. (available from the HSE)</p> <p>WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE GS6 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)</p>		BASED UPON THE ORDNANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M. STATIONERY OFFICE. CROWN COPYRIGHT RESERVED.			
services	l.v.	h.v.	e.h.v.	lv_1250_500			Grid Ref: sp46881376			
FOOTPATH	0.40m	0.45m	0.60m	0.75m	<p>This copy has been made by or with the authority of Southern Electric Power Distribution plc, pursuant to section 47 of the Copyright, Designs and Patents Act 1988 ('the Act'). Unless the Act provides a relevant exception to copyright, the copy must not be copied without the prior permission of the copyright owner.</p> <p>Template: SIAS MRSWA COL A5 plot</p> <p>Southern Electric Power Distribution plc. Registered in England No. 04094290 Registered Office: No. 1 Forbury Place, 43 Forbury Road, Reading, RG1 3JH</p>		22630DM	OXFORD 01865-845800	Scale: 1:1250	
ROAD CROSSING	0.60m	0.60m	0.75m	0.90m			UNCONTROLLED COPY	Date: 03/10/2018		
l.v./services	– up to 1000V.				Subject to Revision Master held at		LV			
h.v.	– over 1000V. to 11,000V.									
e.h.v.	– 22,000V. to 132,000V.									



NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID					<div>WARNING</div> <p>There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. (available from the HSE)</p> <p>WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE GS6 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)</p>	BASED UPON THE ORDNANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M. STATIONERY OFFICE. CROWN COPYRIGHT RESERVED.				
						This copy has been made by or with the authority of Southern Electric Power Distribution plc. pursuant to section 47 of the Copyright, Designs and Patents Act 1988 (‘the Act’). Unless the Act provides a relevant exception to copyright, the copy must not be copied without the prior permission of the copyright owner.		lv_1250_500		Grid Ref: sp46881361
						Template: SIAS MRSWA COL A3 plot		OXFORD 01865–845800		Scale: 1:1250
						Southern Electric Power Distribution plc. Registered in England No. 04094290 Registered Office: No. 1 Forbury Place, 43 Forbury Road, Reading, RG1 3JH		22630DM		Date: 03/10/2018
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WARNING

EHV CABLES & LINES IN PLOT AREA

WARNING

EHV CABLES & LINES IN PLOT AREA

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
	services	l.v.	h.v.	e.h.v.
FOOTPATH	0.40m	0.45m	0.60m	0.75m
ROAD CROSSING	0.60m	0.60m	0.75m	0.90m
l.v./services	– up to 1000V.			
h.v.	– over 1000V. to 11,000V.			
e.h.v.	– 22,000V. to 132,000V.			

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
	services	l.v.	h.v.	e.h.v.
FOOTPATH	0.40m	0.45m	0.60m	0.75m
ROAD CROSSING	0.60m	0.60m	0.75m	0.90m
l.v./services	– up to 1000V.			
h.v.	– over 1000V. to 11,000V.			
e.h.v.	– 22,000V. to 132,000V.			

WARNING

There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. HSE (Q) 47 Booklet from the Health and Safety Executive - Avoiding Danger from Buried Cables - should be consulted before commencing excavation work. (available from the HSE)

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

There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. HSE (Q) 47 Booklet from the Health and Safety Executive - Avoiding Danger from Buried Cables - should be consulted before commencing excavation work. (available from the HSE)

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

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<p>Template: SIA5 NISWA COL A3 plot</p>	<p>22630DM</p>
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<p>Template: SIA5 NISWA COL A3 plot</p>	<p>22630DM</p>
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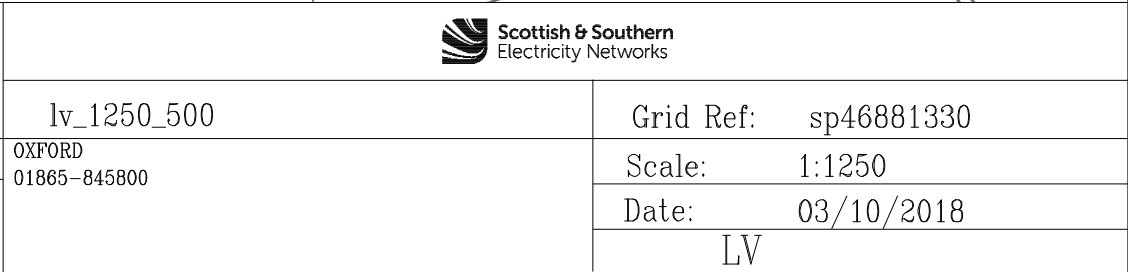
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<p>Template: SIA5 NISWA COL A3 plot</p>	<p>22630DM</p>
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<p>Template: SIA5 NISWA COL A3 plot</p>	<p>22630DM</p>
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<p>Template: SIA5 NISWA COL A3 plot</p>	<p>22630DM</p>
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<p>Template: SIA5 NISWA COL A3 plot</p>	<p>22630DM</p>
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 Scottish & Southern Electricity Networks	
lv_1250_500	Grid Ref: sp46881330
OXFORD 01865-845800	Scale: 1:1250
	Date: 03/10/2018
	LV

 Scottish & Southern Electricity Networks	
lv_1250_500	Grid Ref: sp46881330
OXFORD 01865-845800	Scale: 1:1250
	Date: 03/10/2018
	LV

 Scottish & Southern Electricity Networks	
lv_1250_500	Grid Ref: sp46881330
OXFORD 01865-845800	Scale: 1:1250
	Date: 03/10/2018
	LV

 Scottish & Southern Electricity Networks	
lv_1250_500	Grid Ref: sp46881330
OXFORD 01865-845800	Scale: 1:1250
	Date: 03/10/2018
	LV

 Scottish & Southern Electricity Networks	
lv_1250_500	Grid Ref: sp46881330
OXFORD 01865-845800	Scale: 1:1250
	Date: 03/10/2018
	LV

 Scottish & Southern Electricity Networks	
lv_1250_500	Grid Ref: sp46881330
OXFORD 01865-845800	Scale: 1:1250
	Date: 03/10/2018
	LV




WARNING

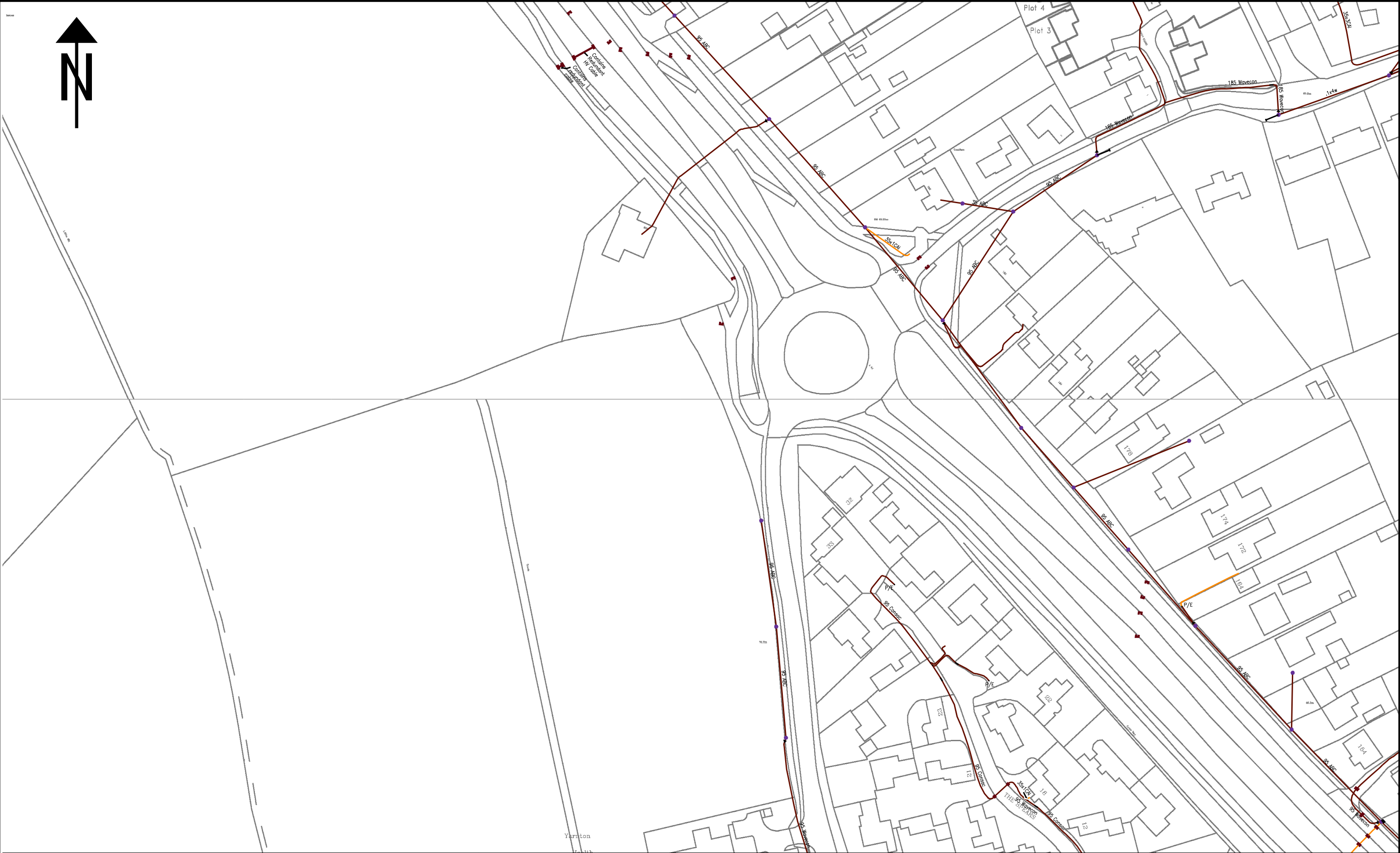
EHV CABLES & LINES IN PLOT AREA




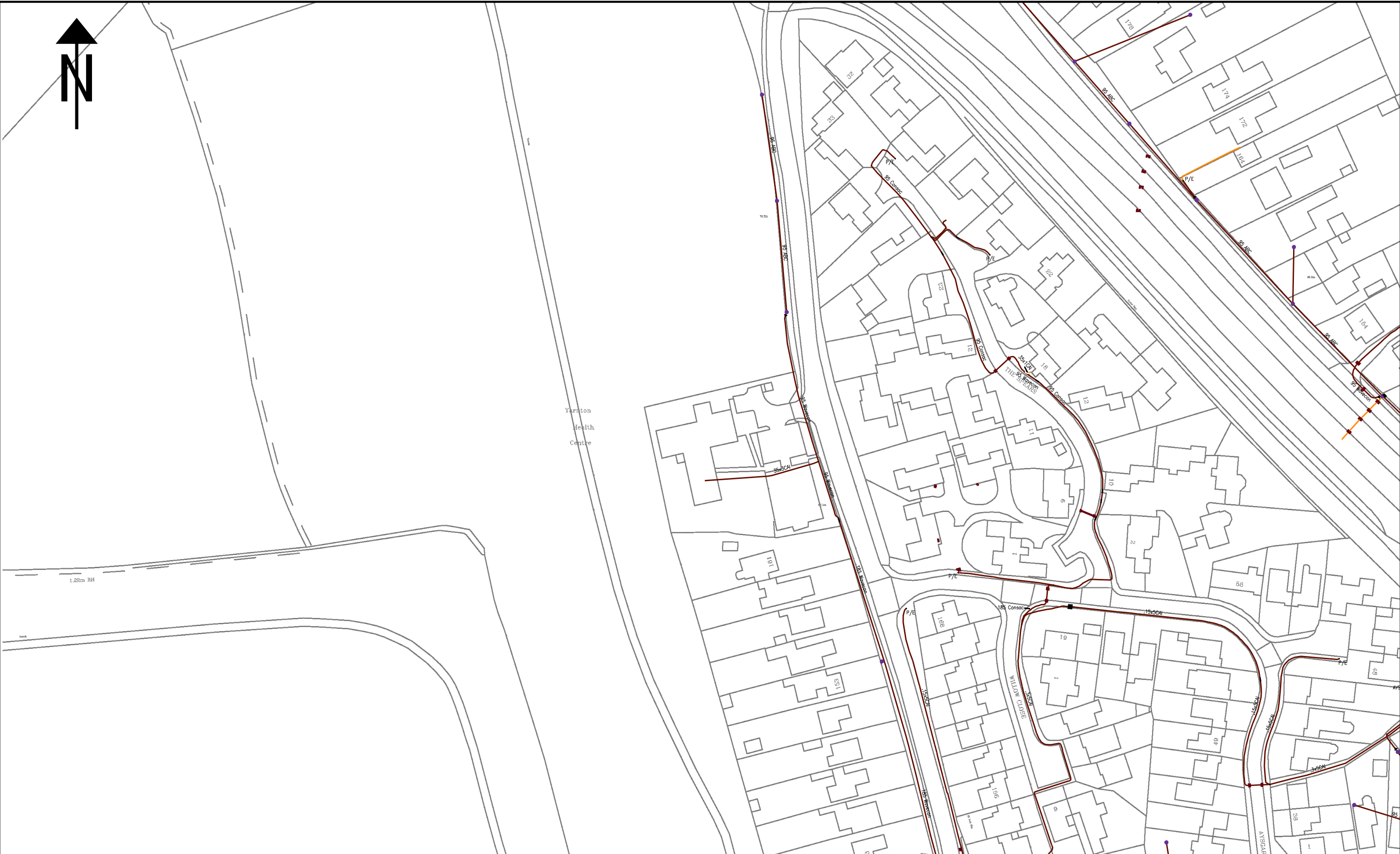
NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				<div>WARNING</div> <p>There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. (available from the HSE)</p> <p>WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE GS6 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)</p>		BASED UPON THE ORDNANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M. STATIONERY OFFICE. CROWN COPYRIGHT RESERVED.				
services	l.v.	h.v.	e.h.v.			This copy has been made by or with the authority of Southern Electric Power Distribution plc. pursuant to section 47 of the Copyright, Design and Patents Act 1988 (the Act). Unless the Act provides a relevant exception to copyright, the copy must not be copied without the prior permission of the copyright owner.		lv_1250_500		
FOOTPATH	0.40m	0.45m	0.60m	0.75m	Southern Electric Power Distribution plc. Registered in England No. 04094290 Registered Office: No. 1 Forbury Place, 43 Forbury Road, Reading, RG1 3JH		22630DM		OXFORD 01865-845800	Grid Ref: sp46881314
ROAD CROSSING	0.60m	0.60m	0.75m	0.90m			UNCONTROLLED COPY		Date: 03/10/2018	
l.v./services	– up to 1000V.				Subject to Revision Master held at				LV	
h.v.	– over 1000V. to 11,000V.									
e.h.v.	– 22,000V. to 132,000V.									



NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID					<div>WARNING</div> <div>There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. (available from the HSE)</div> <div>WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE GS6 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)</div>		BASED UPON THE ORDNANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M. STATIONERY OFFICE. CROWN COPYRIGHT RESERVED.			
services	l.v.	h.v.	e.h.v.	lv_1250_500			Grid Ref: sp47131314			
FOOTPATH	0.40m	0.45m	0.60m	0.75m	This copy has been made by or with the authority of Southern Electric Power Distribution plc. pursuant to section 47 of the Copyright, Designs and Patents Act 1988 (the Act). Unless the Act provides a relevant exception to copyright, the copy must not be copied without the prior permission of the copyright owner. Template: SIAS MRSWA COL A5 plot		22630DM		OXFORD 01865-845800	
ROAD CROSSING	0.60m	0.60m	0.75m	0.90m	Southern Electric Power Distribution plc. Registered in England No. 04094290 Registered Office: No. 1 Forbury Place, 43 Forbury Road, Reading, RG1 3JH		UNCONTROLLED COPY		Scale: 1:1250	
l.v./services	– up to 1000V.				Subject to Revision Master held at		LV		Date: 03/10/2018	
h.v.	– over 1000V. to 11,000V.									
e.h.v.	– 22,000V. to 132,000V.									




NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID					<div>WARNING</div> <div>There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. (available from the HSE)</div> <div>WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE GS6 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)</div>		BASED UPON THE ORDNANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M. STATIONERY OFFICE. CROWN COPYRIGHT RESERVED.		<div></div>		
services	l.v.	h.v.	e.h.v.				lv_1250_500		Grid Ref: sp47391299		
FOOTPATH	0.40m	0.45m	0.60m	0.75m				22630DM		OXFORD 01865-845800	
ROAD CROSSING	0.60m	0.60m	0.75m	0.90m				UNCONTROLLED COPY			
l.v./services	– up to 1000V.						Subject to Revision Master held at				
h.v.	– over 1000V. to 11,000V.										
e.h.v.	– 22,000V. to 132,000V.								LV		



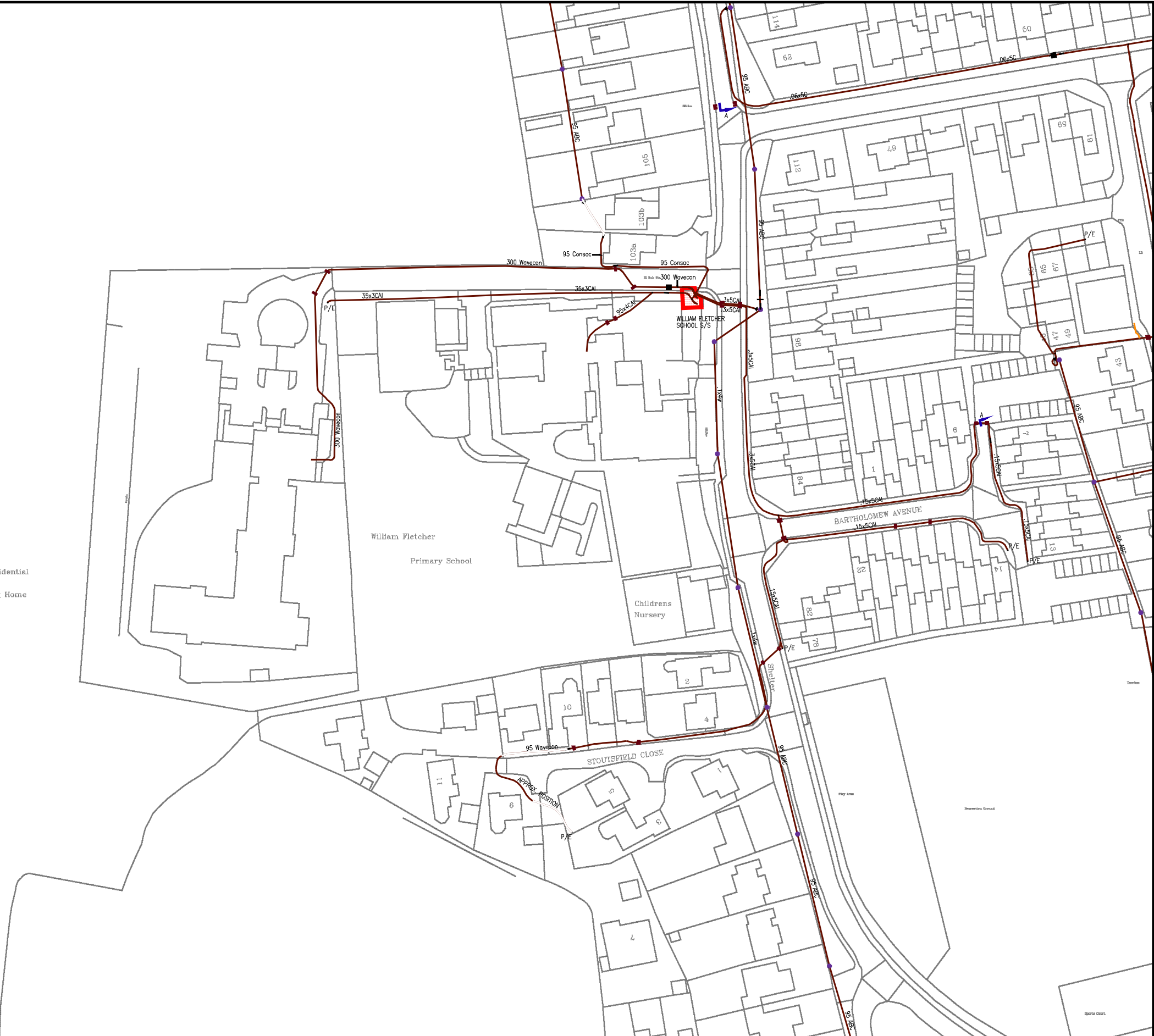
NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID					<div style="border: 2px solid black; padding: 10px; text-align: center; font-weight: bold; font-size: 1.2em;">WARNING</div>		<p style="text-align: center; font-size: 0.8em;">BASED UPON THE ORDINANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M. STATIONERY OFFICE. CROWN COPYRIGHT RESERVED.</p> <p style="text-align: center; font-size: 0.7em;">This copy has been made by or with the authority of Southern Electric Power Distribution plc, pursuant to section 47 of the Copyright, Designs and Patents Act 1988 (The Act). Unless the Act provides a relevant exception to copyright, the copy must not be copied without the pre permission of the copyright owner.</p> <p style="text-align: center; font-size: 0.6em;">Template: SAS NISWA COL A3 plot</p>		<div> <p>Scottish & Southern Electricity Networks</p> </div>	
	services	l.v.	h.v.	e.h.v.	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; font-weight: bold;">UNCONTROLLED COPY</p> <p style="text-align: center;">Subject to Revision Master held at</p> </div>		<div> <p>lv_1250_500</p> <p>OXFORD 01865-845800</p> </div>		<div> <p>Grid Ref: sp47391283</p> <p>Scale: 1:1250</p> <p>Date: 03/10/2018</p> <p style="font-size: 1.5em; text-align: center;">LV</p> </div>	
FOOTPATH	0.40m	0.45m	0.60m	0.75m						
ROAD CROSSING	0.60m	0.60m	0.75m	0.90m						
l.v./services	– up to 1000V.									
h.v.	– over 1000V. to 11,000V.				<p style="font-size: 0.8em;">There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. HS (D) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. (available from the HSE)</p>		<p style="font-size: 0.8em;">Southern Electric Power Distribution plc. Registered in England No. 04094290 Registered Office: No. 1 Forbury Place, 43 Forbury Road, Reading, RG1 3JH</p>			
e.h.v.	– 22,000V. to 132,000V.									
<p style="font-size: 0.7em; text-align: center;">WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE GS6 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)</p>										



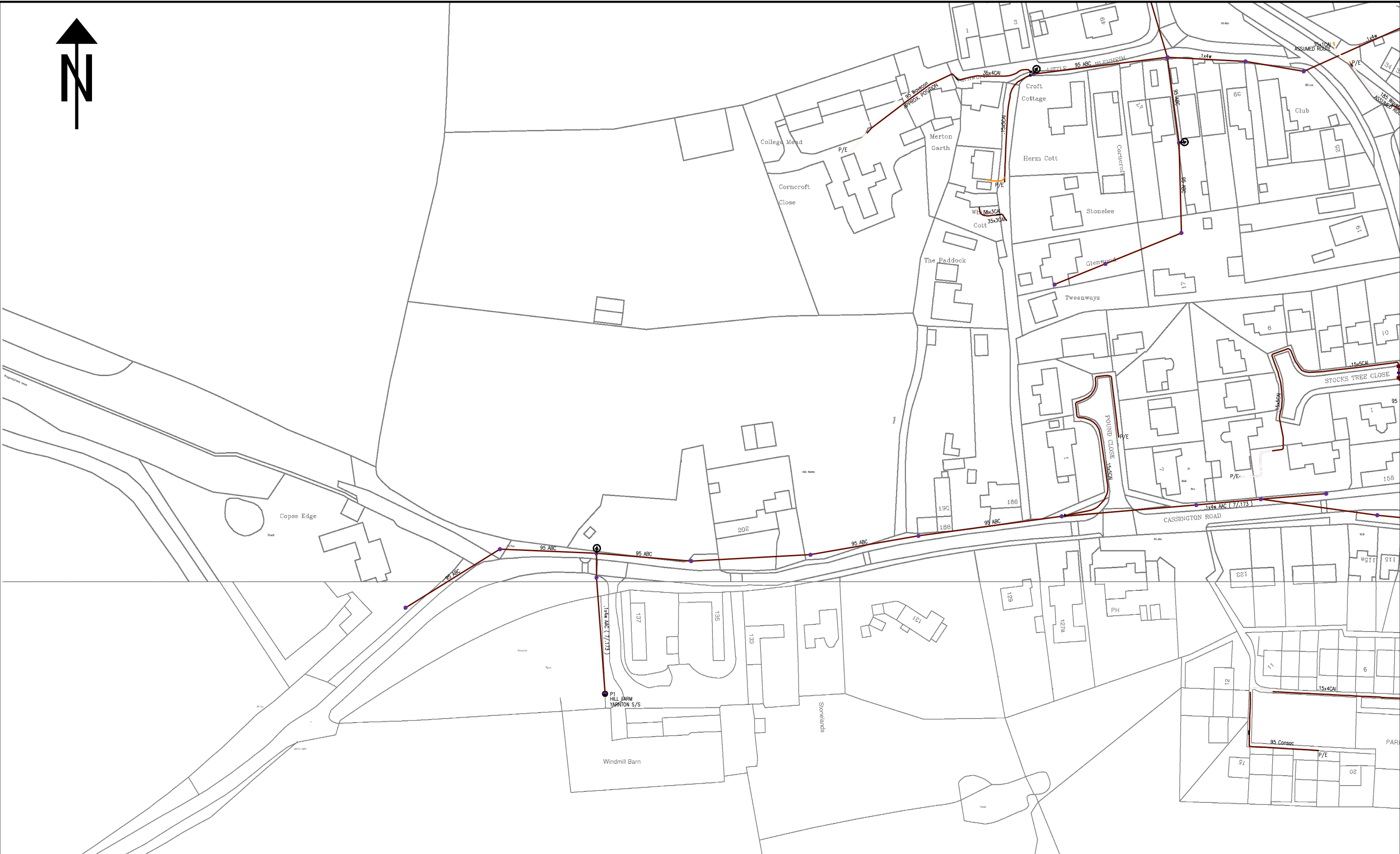
NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID					<div>WARNING</div> <p>There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. (available from the HSE)</p> <p>WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE GS6 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)</p>	BASED UPON THE ORDNANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M. STATIONERY OFFICE. CROWN COPYRIGHT RESERVED.																			
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						Southern Electric Power Distribution plc. Registered in England No. 04094290 Registered Office: No. 1 Forbury Place, 43 Forbury Road, Reading, RG1 3JH					22630DM					OXFORD 01865-845800					Scale: 1:1250				
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											Subject to Revision Master held at										LV				




NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				<div>WARNING</div> <p>There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. (available from the HSE)</p> <p>WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE GS6 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)</p>	BASED UPON THE ORDNANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M. STATIONERY OFFICE. CROWN COPYRIGHT RESERVED.			
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FOOTPATH	0.40m	0.45m	0.60m	0.75m	Southern Electric Power Distribution plc. Registered in England No. 04094290 Registered Office: No. 1 Forbury Place, 43 Forbury Road, Reading, RG1 3JH		OXFORD 01865–845800	Scale: 1:1250
ROAD CROSSING	0.60m	0.60m	0.75m	0.90m	22630DM			Date: 03/10/2018
l.v./services	– up to 1000V.				UNCONTROLLED COPY			LV
h.v.	– over 1000V. to 11,000V.				Subject to Revision Master held at			
e.h.v.	– 22,000V. to 132,000V.							



NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID					<div>WARNING</div> <p>There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. (available from the HSE)</p> <p>WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE GS6 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)</p>	BASED UPON THE ORDNANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M. STATIONERY OFFICE. CROWN COPYRIGHT RESERVED.			
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ROAD CROSSING	0.60m	0.60m	0.75m	0.90m		UNCONTROLLED COPY			Scale: 1:1250
l.v./services	– up to 1000V.								Date: 03/10/2018
h.v.	– over 1000V. to 11,000V.							LV	
e.h.v.	– 22,000V. to 132,000V.								




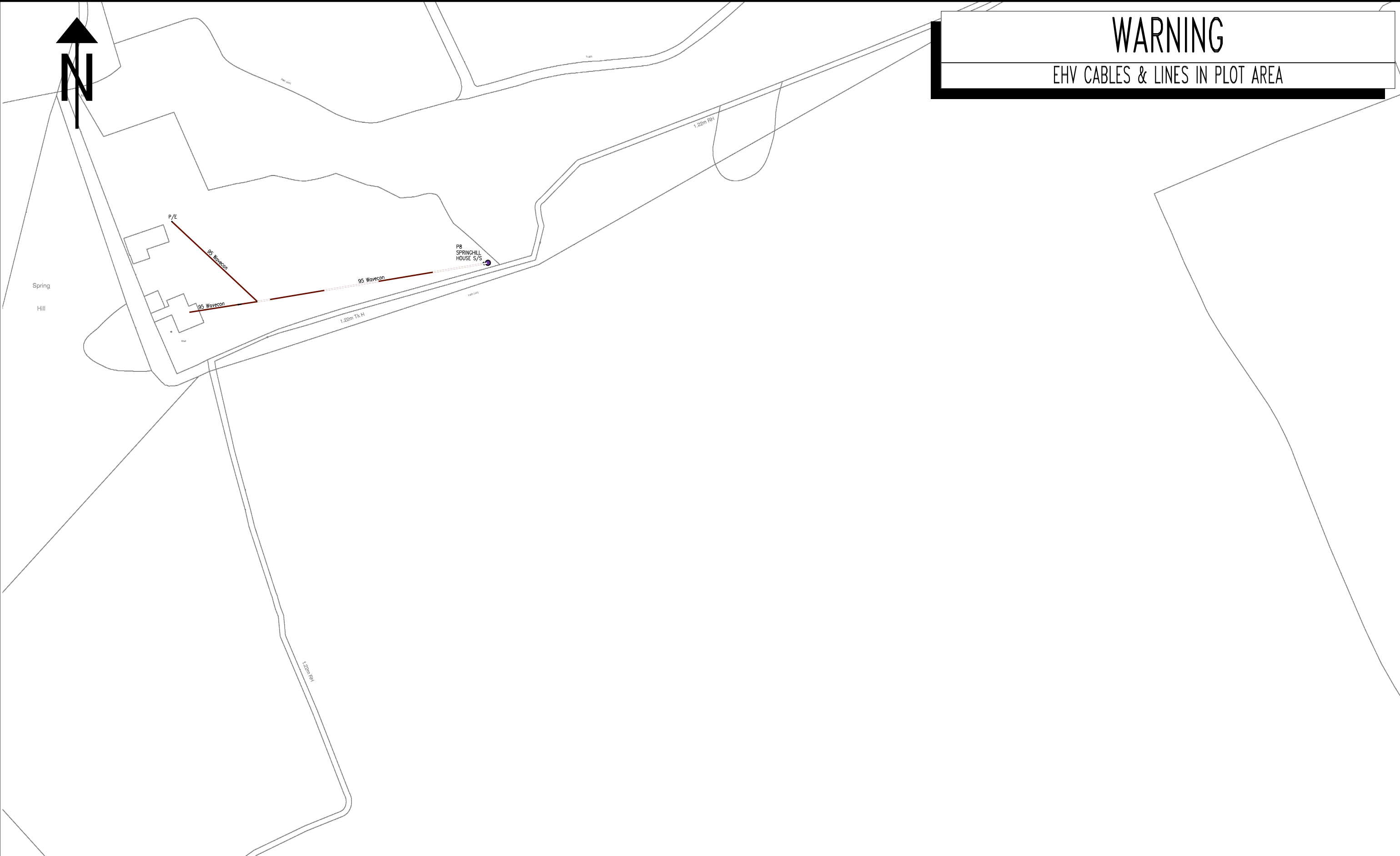
NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID					<div>WARNING</div> <p>There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. (available from the HSE)</p> <p>WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE GS6 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)</p>		BASED UPON THE ORDINANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M. STATIONERY OFFICE. CROWN COPYRIGHT RESERVED.			
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ROAD CROSSING	0.60m	0.60m	0.75m	0.90m		UNCONTROLLED COPY Subject to Revision Master held at		Date: 03/10/2018		
l.v./services	– up to 1000V.							LV		
h.v.	– over 1000V. to 11,000V.									
e.h.v.	– 22,000V. to 132,000V.									



WARNING

EHV CABLES & LINES IN PLOT AREA

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID					<div>WARNING</div> <p>There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. (available from the HSE)</p> <p>WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE GS6 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)</p>	BASED UPON THE ORDNANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M. STATIONERY OFFICE. CROWN COPYRIGHT RESERVED.						
	services	l.v.	h.v.	e.h.v.		This copy has been made by or with the authority of Southern Electric Power Distribution plc. pursuant to section 47 of the Copyright, Design and Patents Act 1988 (the Act). Unless the Act provides a relevant exception to copyright, the copy must not be copied without the prior permission of the copyright owner. <small>Template: SIAS MRSWA COL A5 plot</small>			lv_1250_500		Grid Ref: sp46881221	
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l.v./services	– up to 1000V.										Date: 03/10/2018	
h.v.	– over 1000V. to 11,000V.										LV	
e.h.v.	– 22,000V. to 132,000V.											

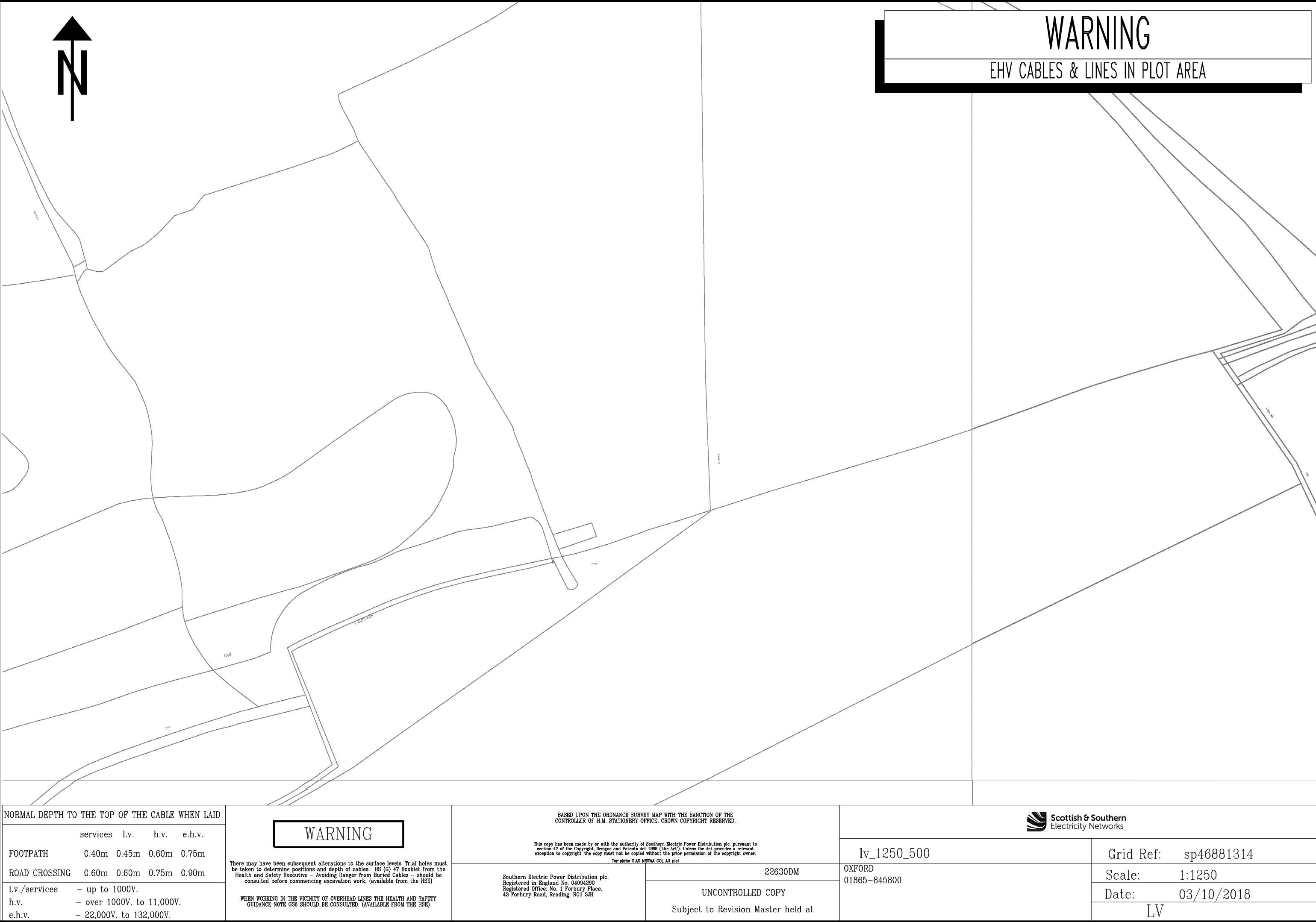


NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID					<div>WARNING</div>		BASED UPON THE ORDNANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M. STATIONERY OFFICE. CROWN COPYRIGHT RESERVED.		<div><div></div><div>Scottish & Southern Electricity Networks</div></div>	
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FOOTPATH	0.40m	0.45m	0.60m	0.75m					lv_1250_500	
ROAD CROSSING	0.60m	0.60m	0.75m	0.90m					OXFORD 01865-845800	
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h.v.	– over 1000V. to 11,000V.								UNCONTROLLED COPY	
e.h.v.	– 22,000V. to 132,000V.								Subject to Revision Master held at	
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					WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE GS6 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)					
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									Date: 03/10/2018	
									LV	



NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID					<div>WARNING</div> <p>There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. HS (G) 47 Booklet from the Health and Safety Executive - Avoiding Danger from Buried Cables - should be consulted before commencing excavation work. (available from the HSE)</p> <p>WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE GS6 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)</p>	BASED UPON THE ORDNANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M. STATIONERY OFFICE. CROWN COPYRIGHT RESERVED.				
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						Template: SIAS MRSWA COL A5 plot		22630DM		OXFORD 01865-845800
						Southern Electric Power Distribution plc. Registered in England No. 04094290 Registered Office: No. 1 Forbury Place, 43 Forbury Road, Reading, RG1 3JH		UNCONTROLLED COPY		Date: 03/10/2018
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services	l.v.	h.v.	e.h.v.
FOOTPATH	0.40m	0.45m	0.60m 0.75m
ROAD CROSSING	0.60m	0.60m	0.75m 0.90m
l.v./services	- up to 1000V.		
h.v.	- over 1000V. to 11,000V.		
e.h.v.	- 22,000V. to 132,000V.		



WARNING

EHV CABLES & LINES IN PLOT AREA

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID

	services	l.v.	h.v.	e.h.v.
FOOTPATH	0.40m	0.45m	0.60m	0.75m
ROAD CROSSING	0.60m	0.60m	0.75m	0.90m
l.v./services	– up to 1000V.			
h.v.	– over 1000V. to 11,000V.			
e.h.v.	– 22,000V. to 132,000V.			

WARNING

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

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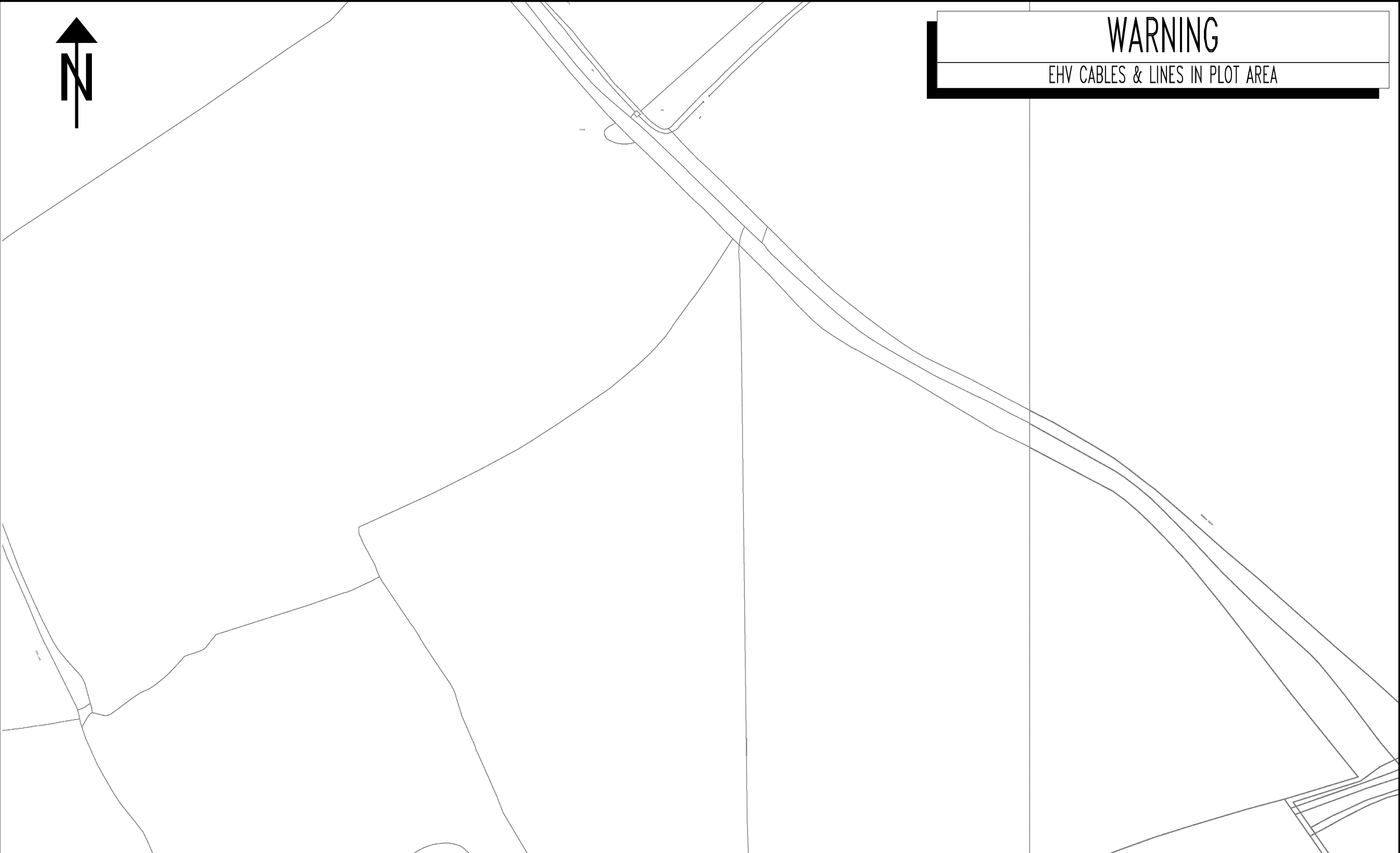
OXFORD
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Scale: 1:1250

Date: 03/10/2018

LV



WARNING

EHV CABLES & LINES IN PLOT AREA

WARNING

EHV CABLES & LINES IN PLOT AREA

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
	services	l.v.	h.v.	e.h.v.
FOOTPATH	0.40m	0.45m	0.60m	0.75m
ROAD CROSSING	0.60m	0.60m	0.75m	0.90m
l.v./services	– up to 1000V.			
h.v.	– over 1000V. to 11,000V.			
e.h.v.	– 22,000V. to 132,000V.			

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
	services	l.v.	h.v.	e.h.v.
FOOTPATH	0.40m	0.45m	0.60m	0.75m
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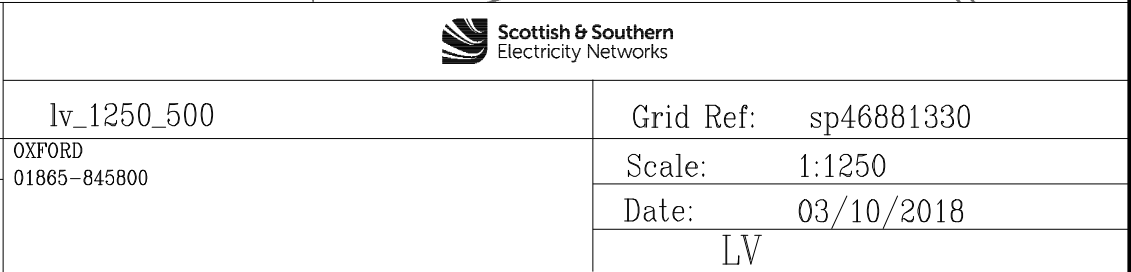
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 Scottish & Southern Electricity Networks	
lv_1250_500	Grid Ref: sp46881330
OXFORD 01865-845800	Scale: 1:1250
	Date: 03/10/2018
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 Scottish & Southern Electricity Networks	
lv_1250_500	Grid Ref: sp46881330
OXFORD 01865-845800	Scale: 1:1250
	Date: 03/10/2018
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 Scottish & Southern Electricity Networks	
lv_1250_500	Grid Ref: sp46881330
OXFORD 01865-845800	Scale: 1:1250
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	LV

 Scottish & Southern Electricity Networks	
lv_1250_500	Grid Ref: sp46881330
OXFORD 01865-845800	Scale: 1:1250
	Date: 03/10/2018
	LV

Watch it!

Safety advice brought to you by Scottish and Southern Electricity Networks

These notes are intended to help all those who have to work in the vicinity of electrical apparatus. Employers have a legal obligation to ensure that their operatives are fully instructed in the correct procedures.

The Electricity at Work Regulations 1989 impose health and safety requirements upon employers, employees and self-employed persons with respect to electricity at work. The regulations impose restrictions on persons being engaged in work activities on or near live conductors.

Regulation 14 requires that: "No person shall be engaged in any work activity on or near any live conductor (other than one suitably covered with insulating material so as to prevent danger) that danger may arise unless:

- ◆ it is **unreasonable** in all circumstances for it to be dead; and
- ◆ it is **reasonable** in all circumstances for him to be at work on or near it while it is live; and
- ◆ suitable precautions (including where necessary the provision of suitable protective equipment) are taken to prevent injury."

The purpose of the regulations is to require precautions to be taken against the risk of death or personal injury from electricity in work activities.

Publications

The Health and Safety Executive have produced a document entitled 'Avoiding Danger from Underground Services', and the Appendix 1 deals specifically with electric cables. Copies are available from the HSE's Accredited Agents and good booksellers, Ref. HS (G) 47.

Copies of Health and Safety Guidance note GS 6 relating to safe working in proximity to overhead lines, are available from the Health and Safety Executive's website - www.hse.gov.uk.

Note

In situations of emergency or danger, or where the advice contained in these notes cannot be followed, you must consult Scottish and Southern Electricity Networks immediately. Tel. 0800 072728 for southern England or 0800 300999 for Scotland.

Additional copies of these "Watch it!" leaflets can be obtained from our Asset Data Team office upon request. Tel. 01256 337294, or Fax 01256 337295.

You must read and accept the following safety notes as part of the contract to receive our network plans. You will have the option to print these and issue them to site staff.

Watch it! - Working in the vicinity of underground cables

Our plans show the positions and normal depths for the buried cables and pipes at the time when they were installed. However, alterations to road alignments surface levels and buildings may have occurred subsequently without our knowledge. If you discover plant or cables that are not marked or incorrectly marked, then you are required to contact us as soon as possible to give us the opportunity to amend our plans.

These plans show the equipment owned by Scottish and Southern Electricity Networks. There may be other privately owned plant in the area, which is outside of our control. You should always check with the Local Authority, National Grid Company, Department of the Environment, other Electricity Companies and other utilities before proceeding.

It is not intended that the issue of these plans will absolve either party from their obligation under any of the acts that control digging in the public highways.

Supplies To Properties, etc.

The location of cables supplying individual properties, street lighting, traffic signs, telephone kiosks etc. are not always shown on the plans. You should assume that each property, streetlight etc. will have its own supply cable.

Major Circuits

Where our plans indicate the presence of cables with a voltage exceeding 11,000 volts, you are advised to contact our local depot (telephone number is on the plans), before commencing any excavations within the vicinity of these cables. These major circuits form an extremely important link in Scottish and Southern Electricity Networks' networks, and damaging or modifying these circuits is a major and costly undertaking. Any development should therefore be designed to allow these circuits to remain undisturbed and accessible in their present location.

For your own and your workmates' safety, please follow the **do's** and **don'ts** listed below:

- ✓ **do** make sure you have plans of the underground cables in the area **before** any excavation work starts. Remember that some cables may not be shown on plans. If carrying out emergency work, excavate as though there are buried live cables in the vicinity.
- ✓ **do** use a cable locator to determine the position of existing cables in the work area. The positions should be marked and tests made as work proceeds. **If in doubt, get advice from your supervisor.**
- ✓ **do** ask for a cable to be made dead if it is buried in concrete.
- ✓ **do** watch for signs of cables as work progresses. Note any marker-tape or cable-cover, which may be exposed

- ✓ **do** backfill carefully, using stone-free soil around the cables, replacing marker-tapes and / or covers.
- ✓ **do** notify us immediately if you accidentally damage our cables. Arrange to keep people well clear of a cable that has been damaged until we have confirmed it has been made safe.
- ✓ **do** make sure before starting to demolish a building that all cables have been disconnected. We welcome prior notice of the intention to demolish buildings. This enables us to ensure that the site has been made safe electrically.
- ✓ **don't** operate a bulldozer, scraper, dragline or excavator; unless you are satisfied that there are no buried cables in the working area.
- ✓ **don't** use picks, pins, forks or pointed instruments in soft clay or soil when cables are present. Exercise extreme caution where such instruments are used to free lumps of stone, or break up firmly compacted ground. **Never** throw a fork or sharp instrument into the ground.
- ✓ **don't** dig trial holes over the indicated route of the cable. Excavate alongside instead.
- ✓ **don't** use exposed cables as a convenient step or handhold.
- ✓ **don't** handle or attempt to alter the position of any cable.

Remember that a damaged cable may cause extensive loss of supplies, make expensive repairs necessary and cause serious or even fatal injury.

If effective measures are not adopted to protect our equipment, we will take steps to recover the cost of any damage caused. Persons causing damage resulting in loss of supply to customers can be held legally responsible for any claims made by those customers. Promptness in reporting an incident will minimise costs.

In most cases it is not practicable to make cables dead without interrupting supplies to our customers. But given adequate notice, we will wherever possible, give advice regarding special precautions which may be necessary on any site where particular problems are likely to be encountered. The right is reserved to make a charge for this service.

Electricity cables can exist anywhere - under paths or roads, in gardens or driveways, on new housing or industrial development sites or even farmland.

Watch it! - Working in the vicinity of overhead lines

For your own and your workmates' safety, please follow the **do's** and **don'ts** listed below

- ✓ **do** carefully note the position of all overhead lines before commencing work.
- ✓ **do** co-operate with us during planning and sitework stages.
- ✓ **do** follow the advice given in HSE Guidance Note GS 6 when siting barriers, goal posts, bunting etc.
- ✓ **do** keep overhead lines in view when moving scaffolding or machinery and take special care when felling or lopping trees.
- ✓ **do** remember that the raising or slewing of a crane or excavator jib may cause danger when operating near an overhead line.

- ✓ **do** avoid any machinery that is in contact with an overhead line until we confirm that conditions are safe.
- ✓ **do** warn others to keep well clear.
- ✓ **don't** drive a high vehicle below an overhead line when an alternative route is available.
- ✓ **don't** raise the bed of a tipper lorry beneath an overhead line or drive under the line with the body of the vehicle raised.
- ✓ **don't** steady any suspended load until you are satisfied that there is no danger from overhead lines.
- ✓ **don't** handle or use scaffold platforms, poles, pipes or ladders unless they are at a safe distance from overhead lines.
- ✓ **don't** transport long objects beneath overhead lines, unless they are carried in a horizontal position.
- ✓ **don't** approach or touch any broken or fallen overhead lines.

Always remember that:

- Electricity can jump gaps.
- Contact or near contact with a crane jib, scaffold or ladder can cause a discharge of electricity with a risk of fatal or severe shock and burns to any person in the vicinity.

If effective measures are not adopted to protect our equipment, we will take steps to recover the cost of any damage caused. Persons causing damage resulting in loss of supply to customers can be held legally responsible for any claims made by those customers. Promptness in reporting an incident will minimise costs.

In most cases it is not practicable to make overhead lines dead without interrupting supplies to customers. However, provided adequate notice is given, then we will, whenever possible, give advice regarding special precautions which may be necessary on site where specific problems may be encountered. The right is reserved to make a charge for this service.

Scottish and Southern Electricity Networks is a trading name of: Scottish and Southern Energy Power Distribution Limited Registered in Scotland No. SC213459; Scottish Hydro Electric Transmission plc Registered in Scotland No. SC213461; Scottish Hydro Electric Power Distribution plc Registered in Scotland No. SC213460 (all having their Registered Offices at Inveralmond House 200 Dunkeld Road Perth PH1 3AQ); and Southern Electric Power Distribution plc Registered in England & Wales No. 04094290 having its Registered Office at No.1 Forbury Place 43 Forbury Road Reading RG1 3JH which are members of the SSE Group www.ssen.co.uk

Utility Assets Ltd

Thank you for recently contacting Utility Assets plant record department. We will check whether we have any plant present at your site and contact you within 5 - 7 working days ONLY if we own any plant in the vicinity.

If we do not reply, we do not have any apparatus in the area of your works. However, PLEASE TAKE CARE when excavating around electricity cables in the event that not all cables present may be accurately shown. We recommend you use detecting equipment to map the site before excavating and fully comply with HSG47. DO NOT assume that a cable is dead if you don't have a record of its presence. The cable must be treated as live unless PROVEN DEAD by the cable owner. In case of emergency please contact your local electricity distribution company.

This is an automated reply from our dedicated asset records email address. If you receive further correspondence from us it will be from asset.manager@utilityassets.co.uk quoting a site reference number.

Asset Manager - Utility Assets Ltd

From: plantenquiryservice@gtc-uk.co.uk
Sent: 03 October 2018 11:06
To: Rosie Munns
Subject: GTC Plant Enquiry - Ref- 797210
Attachments: 797210.png; GU-DPR-IG-0022 Safe working in the vicinity of utility networks.pdf

Warning: GTC Apparatus Exists in This Area

Our Plant Enquiry Service Ref: 797210

Your Enquiry Ref: 22630DM

Dear Rosie,

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

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

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

N0012510

Electric

- [EN0012510-1_1_of_1.png](#)

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

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

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

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

Important: The area of your proposed works may contain gas mains operating at Medium and Intermediate Pressure tiers or electric cables operating at High Voltage – please refer to the network drawings included with this email. If your proposed works are likely to involve excavation within 10 metres of any of these assets, including but not limited to gas governors and electric substations you MUST inform GTC Plant Enquiries by calling 01359 240363 and quoting your Plant Enquiries Service Reference number.

Important: Drawings provided by this service may include utility assets not owned or managed by GTC. Conversely our drawings will NOT display assets from all third parties. It is your responsibility to ensure you have requested information from all utility asset owners.

Gas Escape or Damage MUST be reported on 0800 111 999. National Grid / DNGT will attend to make safe and repair.

Electricity Network Damage MUST be reported to ENC on 0800 032 6990.

Water Network Damage MUST be reported to IWNL on 02920 028 711

Fibre Network Damage MUST be reported to IFNL on 0845 051 1669

Thank you for using the GTC Plant Enquiries Service.

Your sincerely,

GTC Plant Enquiry Service

GTC

Energy House

Woolpit Business Park

Woolpit

Bury St Edmunds

Suffolk, IP30 9UP

Tel: 01359 240363

plant.enquiries@gtc-uk.co.uk

NOTE:

This E-Mail originates from GTC, Energy House, Woolpit Business Park, Woolpit, Bury St Edmunds, Suffolk, IP30 9UP

VAT Number: GB688 8971 40. Registered No: 029431.

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Thank you

SAFE WORKING IN THE VICINITY OF UTILITY NETWORKS

(Refer to the HSE Guidance Document HSG47)

General

1. It is imperative that all works are carried out in accordance with the guidance provided by the HSE in their document HSG47 "Avoiding Danger from Underground Services", ISBN 0-7176-1744-0. No party should carry out any excavation works or other intrusive works such as piling, blasting or demolition without following the guidance in HSG47.
2. We own gas, electricity, water and fibre apparatus located in the highway, private property and through the countryside. Some plant may be located in land for which a wayleave or easement has been granted & there may be no surface evidence of the presence of apparatus.
3. Ensure that you have obtained detailed plans of existing and proposed gas, electricity water and fibre networks.
4. The position of the networks should be pinpointed as accurately as possible by reference to the plans and by means of a locating device, which has been tested and calibrated within the last twelve months.

Excavation work should be carried out where applicable, and carefully follow recognised safe digging practices. Once a locating device has been used to determine position and route, excavation may proceed; trial holes should be dug using suitable hand tools to confirm the position of buried networks. During excavation the locating device should be reused to check position and route of buried apparatus.

5. Hand-held power tools can damage buried apparatus and should be used with care until the exact position has been determined. They may only be used to break a paved or concrete surface above the network, unless there are any indications that the network is particularly shallow, in such circumstances, accuracy of plant location is determined and excavation initiated adjacent to the apparatus.
6. No manhole, chamber or other structure should be built over, around or under the network. Such structures, other pipes, ducts and cables should be laid to provide a minimum clearance from the network of 300mm or 1.5 times the diameter of the network, whichever is the greater. No work should be carried out if this minimum clearance cannot be met or which results in a reduction of cover or protection over the network, without first consulting GTC.
7. Where an excavation uncovers a network apparatus the backfill should be adequately compacted, particularly beneath the network, to prevent any settlement, which would subsequently damage the network. Backfill material adjacent to the network should be selected fine material or sand, containing no stones, bricks or lumps of concrete etc. and should be suitably compacted to give comparable support and protection to that provided before excavation. No power compaction should take place until 200mm cover of selected fine fill has been suitably compacted by hand tools.

8. If the road construction is close to the top of the network, GTC should be asked about necessary precautions. The road construction depth should not be reduced without permission from the local Highway Authority.
9. Costs incurred by GTC through direct or consequential damage will be recharged.

Precautions for Gas Networks

10. Plans do not always show the presence of gas service pipes (from the gas main to premises) but their existence should be assumed.
11. The depth of cover for gas mains is normally 750mm in carriageways and grass verges and 600mm in footways. The depth of cover for gas services is normally 450mm. Remember these covers are to finished level, you may be working in an area, which will be made up or lowered at a later date.
12. Plastic gas pipes should be located by hand digging before mechanical excavation begins. When the positions and depth of the pipes have been determined, work can proceed.
13. The danger created by damaging a gas pipe with an excavator is much greater than if the damage is done with a hand-held power tool (the opposite is true for work near electricity cables and this is reflected in the different safe digging practices). Gas pipes may have projections such as valve housings, which are not shown on the plans and to allow for this mechanical excavators should not be used within 500mm of a gas pipe.
14. If a gas leak is suspected, the following action should be taken immediately:
 - Remove all people from the immediate vicinity of the escape. If the service connection to a building or the adjacent main has been damaged, warn the occupants to leave the building, and any adjoining building, until it is safe for them to return. It is important to note that a mechanical excavator may not only cause damage/leakage at the point of impact. For example, damage to a service connection outside the building may result in further, unseen damage to the connection inside the building. Gas leaking from the damage inside or gas travelling along the line of the service connection pipe from outside the building may cause a build-up of gas within the building.
 - Prohibit smoking, and extinguish all naked flames and other sources of ignition i.e. stop excavator and compressor engines within at least 5.0m of the leak.
 - Inform National Grid by dialling **0800 111 999**
 - Remain on site.
 - Assist National Grid staff, Police or Fire Services as requested.
15. Where gas pipes cross or are parallel and close to excavations, changes in backfill etc. may cause differential ground settlement and increased stress in the pipe. For pipes parallel and close to excavations, the degree of risk depends upon the depth of the excavation, the distance of the pipe from the excavation, the type of soil and any excessive loading from heavy construction plant and materials. Wherever excavation works may affect the support of the gas pipe or cause excessive loading over the gas pipe then GTC must be consulted.

16. No concrete or other hard material should be placed or left under or adjacent to any gas pipe as this can cause pipe fracture at a later date. Concrete backfill should not be used within 300mm of a gas pipe.
17. Where an excavation uncovers a gas pipe with a damaged wrapping, GTC should be told, so that repairs can be made to prevent future corrosions and leakage.
18. Pipe restraints or thrust blocks close to gas mains should never be removed.
19. Anyone who carries out work near underground gas plant should observe any specific requirements made by the site manager, and ensure that access to the plant by National Grid Gas and GTC staff is available at all times. No unauthorised repairs to gas pipes should be made.
20. Where excavation is within 5 metres proximity to above or below ground pressure control equipment, ground workers must be aware of the possibility of encountering small impulse pipe work that is more susceptible to damage.
21. Where PE pipes and cables have been exposed and it is intended hot work (e.g. welding, grinding, etc) be carried out, contact must be made with GTC to confirm additional precautions and actions that may require to be undertaken.
22. GTC should be consulted if it is intended to carry out any of the following activities:
 - using explosives within 30m of gas pipes or 400m of gas pressure reduction equipment
 - piling or boring within 15m of gas plant
 - excavating within 10m of pressure reduction equipment
 - reducing the cover or protection of a gas pipe
 - carrying out nearby deep excavations
 - working near our intermediate pressure (IP) mains.

Precautions for Electricity Networks

23. Plans do not always show the presence of electric service cables (from the electricity main to premises) but their existence should be assumed.
24. In most cases there will be no permanent surface marker posts or other visible indication of the presence of a buried cable. Even if no cables are shown on plans or detected by a locator, there may still be cables present, which could be live and a close watch should be kept for any signs which could indicate their presence such as marker tape, tape tile, concrete tiles and wooden battens. Any marker which is disturbed by our excavations must be replaced once work is completed.
25. Typically underground cables are laid in trenches between 450mm and 1.0m deep, although some high voltage cables will be deeper, however, depths should never be assumed.
26. A cable is positively located only when it has been safely exposed. Even then, digging should still proceed with care as there may be other cables adjacent or lower down.

27. Occasionally, cables are terminated in the ground by means of a seal, sometimes with external mechanical protection. These “pot ended” or “bottle ended” cables should be treated as live and should not be assumed to be abandoned or disused. They can be difficult to detect with locators even when “live”.
28. Using hand held power tools to break up hard surfaces often leads to accidents. Where practicable, such power tools should only be used 500mm or more away from the indicated line of a cable buried in or below a hard surface. Having done so, the cable should then be positively located by careful hand digging under the hard surface. The hard surface should be gradually removed until the cable is exposed. If the cable is not exposed then it must be assumed to be embedded within the surface. Where possible a cable locator should be used as a depth guide down the side of the excavation.
29. Because of the difficulty in confirming depth, hand held power tools should never be used over the cable unless either:
 - the cable has already been exposed by digging under the surface to be broken out and it is at a safe depth (at least 300mm) below the bottom of the hard surface material; or
 - physical precautions have been taken to prevent the tool striking the cable.
30. Excavating close to electricity cables buried in concrete is dangerous and should not be undertaken unless the cable(s) have been isolated. For this reason alone electricity cables should not be buried in concrete.
31. Using mechanical means to break up concrete can cause damage to cables and if the cable is live, anyone present is likely to be injured.
32. Where mechanical excavators are used in the possible vicinity of underground cables, the work should be arranged so that damage to cables is avoided so far as is reasonably practicable and so that everyone is kept well clear of the excavator bucket while it is digging. Drivers should have been instructed to stay in the cab if a cable is struck. If they have to leave the cab, they should jump clear. If drivers climb down, they may be electrocuted. When a cable is struck, a watch should be kept on the machine and no one should go down into the excavation or approach the mechanical excavator or the cable until GTC are contacted and arranged for the damaged cable to be made safe.
33. Where cables have been exposed:
 - any damage should be reported to GTC immediately on **0800 032 6990** and work should not be undertaken in the vicinity of a damaged cable until GTC has investigated its condition;
 - for more than 1.0m and they cross a trench, support should be provided. If the exposed cable length is shorter than 1.0m support should still be considered if joints have been exposed or the cable appears otherwise vulnerable to damage. Where advice and help is needed contact GTC;

- Suitable precautions should be taken to prevent damage from on-going work in the excavation. This may involve for example the use of physical means (e.g. timber boards, sandbags etc) to prevent mechanical damage. Materials or equipment which could damage or penetrate the outer sheath of the cable should not be used. Cables lying in the bottom of an excavation are particularly vulnerable and should be protected by nail free wooden planks, troughing or other suitable means;
 - cables should not be moved aside unless the operation is supervised by GTC;
 - Precautions should be taken to prevent access by members of the public.
34. GTC should be consulted if it is intended to carry out any of the following activities:
- using explosives within 30m of plant or substations piling or boring within 15m of electric plant
 - excavating within 10m of a substation
 - carrying out nearby deep excavations
 - working near our HV plant.

Precautions for Water Networks

35. Plans do not always show the presence of water service pipes (from the water main to premises) but their existence should be assumed.
36. The depth of cover for water mains is normally 750mm in carriageways and grass verges and 750mm footways. The depth of cover for water services is normally 450mm. Remember these covers are to finished level, you may be working in an area, which will be made up or lowered at a later date.
37. Water mains should be located by hand digging before mechanical excavation begins. When the positions and depth of the pipes have been determined, work can proceed.
38. The danger created by damaging a water pipe with an excavator is much greater than if the damage is done with a hand-held power tool (the opposite is true for work near electricity cables and this is reflected in the different safe digging practices). Water pipes may have projections such as valve housings, which are not shown on the plans and to allow for this mechanical excavators should not be used within 500mm of a water pipe.
39. If a water leak is suspected, the following action should be taken immediately:
- Remove all people from the immediate vicinity of the damage. It is important to note that a mechanical excavator may not only cause damage/leakage at the point of impact. For example, damage to a service connection outside the building may result in further, unseen damage to the connection inside the building.
 - Shut down all working plant and machinery in the vicinity of the damage

- Inform IWNL by dialling **02920 028 711**.
 - Remain on site.
 - Do not attempt to make a repair.
 - Assist GTC, approved contractors and Police or Fire Services as requested.
40. Where water pipes cross or are parallel and close to excavations, changes in backfill etc. may cause differential ground settlement and increased stress in the pipe. For pipes parallel and close to excavations, the degree of risk depends upon the depth of the excavation, the distance of the pipe from the excavation, the type of soil and any excessive loading from heavy construction plant and materials. Wherever excavation works may affect the support of the water pipe or cause excessive loading over the water pipe then GTC must be consulted.
41. No concrete or other hard material should be placed or left under or adjacent to any water pipe as this can cause pipe fracture at a later date. Concrete backfill should not be used within 300mm of a water pipe.
42. Where an excavation uncovers a water pipe with a damaged wrapping, GTC should be told, so that repairs can be made to prevent future corrosions and leakage.
43. Pipe restraints or thrust blocks close to water mains should never be removed.
44. Anyone who carries out work near underground water plant should observe any specific requirements made by the site manager, and ensure that access to the plant by GTC staff is available at all times. No unauthorised repairs to water pipes should be made.
45. Where PE pipes and cables have been exposed and it is intended hot work (e.g. welding, grinding, etc) be carried out, contact must be made with GTC to confirm additional precautions and actions that may require to be undertaken.
46. GTC should be consulted if it is intended to carry out any of the following activities:
- using explosives within 30m of plant
 - piling or boring within 15m of water plant
 - excavating within 10m of water asset structures
 - reducing the cover or protection of a water main or service
 - carrying out nearby deep excavations

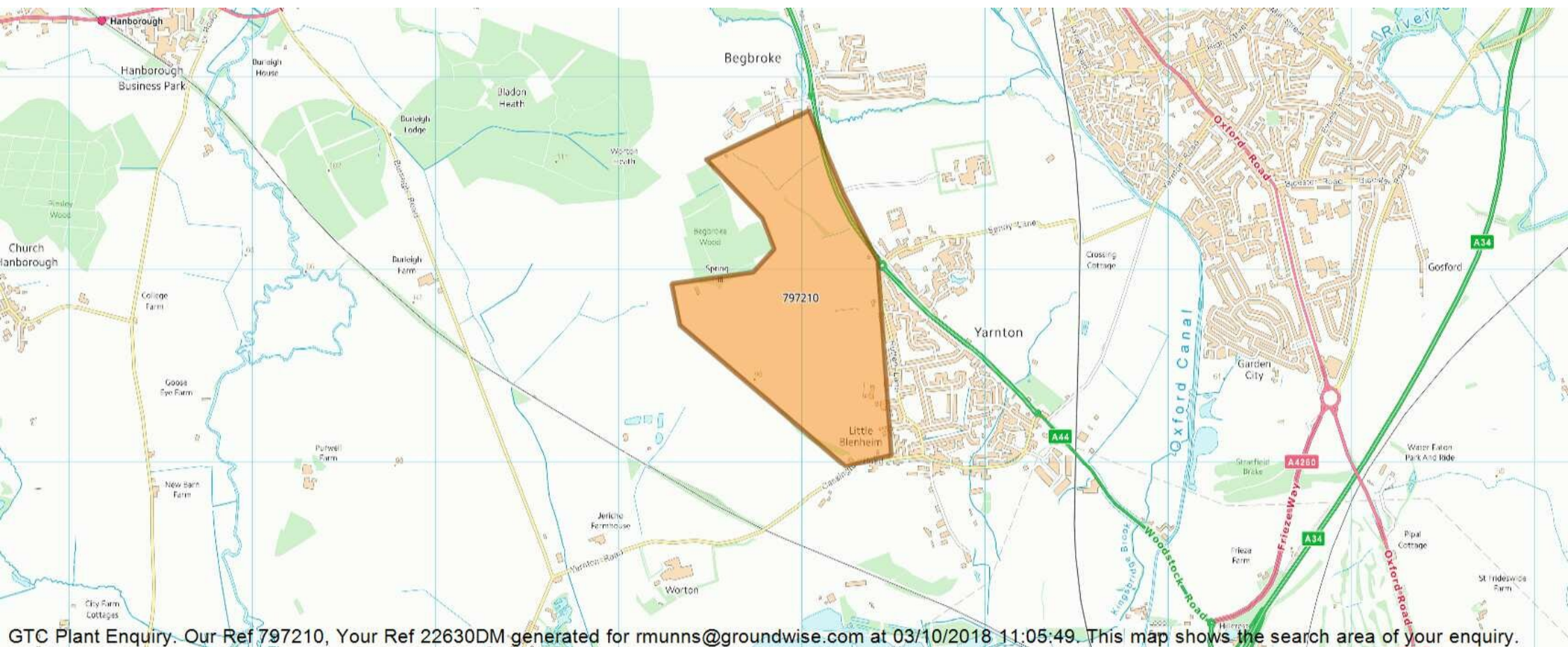
Precautions for Fibre Networks

47. Plans may not always show the presence of fibre ducts but their existence should be assumed if GTC advise they have fibre services deployed in the given area. Any planned excavation work should only proceed with due care and attention.
48. Chambers with IFNL marked lids can be used as an onsite indicator that GTC have fibre plant deployed in a given area however an exclusion of their presence does not necessarily mean there is no plant present.

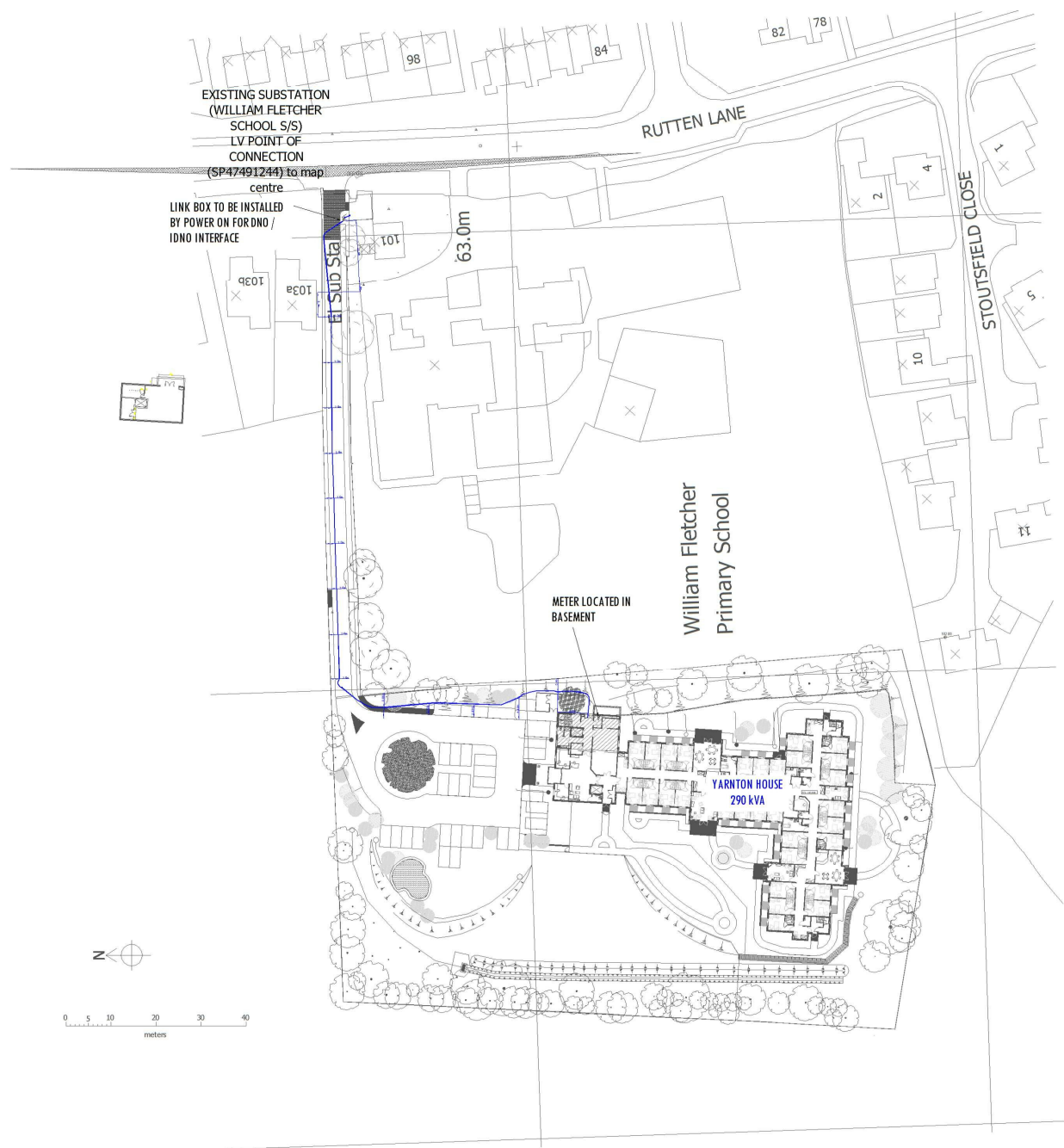
49. In most cases there will be no permanent surface marker posts or other visible indication of the presence of a buried fibre duct. Even if no ducts are shown on plans there may still be ducts present which could have live fibre service installed. A close watch should be kept for any signs which could indicate duct presence such as marker tape. Any marker which is disturbed by our excavations must be replaced once work is completed.
50. The depth of cover for fibre duct is normally 350mm in footways and grass verges, 600mm in carriageways and 1000mm in agricultural deployments. Remember these covers are to finished level, you may be working in an area, which will be made up or lowered at a later date.
51. Fibre ducts should be located by hand digging before mechanical excavation begins. When the positions and depth of the ducts have been determined, work can proceed. Even then, digging should still proceed with care as there may be other ducts adjacent or lower down.
52. If fibre duct damage is suspected, the following action should be taken immediately:
 - Remove all people from the immediate vicinity of the damage. It is important to note that a mechanical excavator may not only cause damage at the point of impact. For example, damage to a fibre connection outside the building may result in further, unseen damage to the connection inside the building.
 - Shut down all working plant and machinery in the vicinity of the damage
 - Inform IFNL NOC immediately on **0845 051 1669**.
 - Remain on site.
 - Do not attempt to make a repair.
53. Where fibre ducts cross or are parallel and close to excavations, changes in backfill etc. may cause differential ground settlement and increased stress on the duct. For ducts parallel and close to excavations, the degree of risk depends upon the depth of the excavation, the distance of the duct from the excavation, the type of soil and any excessive loading from heavy construction plant and materials. Wherever excavation works may affect the support of the fibre duct or cause excessive loading over the fibre duct then GTC must be consulted.
54. No concrete or other hard material should be placed or left under or adjacent to any fibre duct as this can cause damage to the duct at a later date. Any backfill should comply with the requirements of NRSWA. Concrete backfill should not be used within 300mm of a fibre duct.
55. Anyone who carries out work near underground fibre plant should observe any specific requirements made by the site manager, and ensure that access to the plant by GTC staff is available at all times. No unauthorised repairs to fibre ducts should be made.
56. Where fibre ducts have been exposed and it is intended hot work (e.g. welding, grinding, etc) be carried out, contact must be made with GTC to confirm additional precautions and actions that may require to be undertaken.

57. GTC should be consulted if it is intended to carry out any of the following activities:

- using explosives within 30m of plant or fibre asset structures
- piling or boring within 15m of fibre plant
- excavating within 10m of fibre asset structures (including the OSCP)
- reducing the cover or protection of a fibre duct
- carrying out nearby deep excavations



Rev	Revision Note	Date	Drawn by	Approved
1	Original drawing C01213DWG-010 REV 1	26/07/11	CB	N/A
1-1	UIP as-laid from dwg: A01213DWG-010-REV0-AS	17/05/12	SG	N/A
1-2	UIP as-laid from dwg: A01213DWG-010 Rev 0	01/02/14	JAS	N/A
Email Sent - 31.01.14 13:13				



Proposed Cable Notes

All cables to be laid in accordance with the following notes, provided for the Designer (Owner) to be laid in the ground, unless stated otherwise.

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THIS DRAWING SHOWS:
GTC NETWORK
CONTESTABLE

Drawing Scale: 1:500
O.S. REF: 447599,212513
Network Number: N0012510-1
Project Number:
Drawing Number: EN0012510-1_R1-2_1_of_1

Developer: Power On Connections Ltd
Location: Yarnnton House,
YARNNTON,
Oxford, OX5 1LP

enc
the electricity network co

© the electricity network co

ENC 0012510-1_R1-2_1_of_1

Our Ref: 13848634 Your Ref: 22360

Wednesday, 03 October 2018

David Gunn
Suite 8 45 Chichester Road
Southend On Sea
Essex
SS1 2JU

Dear David Gunn

Thank you for your enquiry dated Wednesday, 03 October 2018

Please find an extract from our mains records for your proposed work area, any SGN assets are described in the map legend. **On some occasions blank maps may be sent to you, this is due to your proposed work being in a no gas area but within our operational boundaries.**

This mains record only shows the pipes owned by SGN in our role as a Licensed Gas Transporter (GT). Please note that privately owned gas pipes or pipes owned by other GTs may be present in this area and information regarding those pipes needs to be requested from the owners. If we know of any other pipes in the area we will note them on the plans as a shaded area and/or a series of x's.

The information shown on this plan is given without obligation or warranty and the accuracy cannot be guaranteed. Service pipes, valves, siphons, stub connections etc. are not shown but their presence should be anticipated. Your attention is drawn to the information and disclaimer on these plans. The information included on the plan is only valid for 28 days.

On the mains record you may see the low/medium/intermediate pressure gas main near your site. There should be no mechanical excavations taking place above or within 0.5m of a low/medium pressure system or above or within 3.0m of an intermediate pressure system. You should, where required confirm the position using hand dug trial holes.

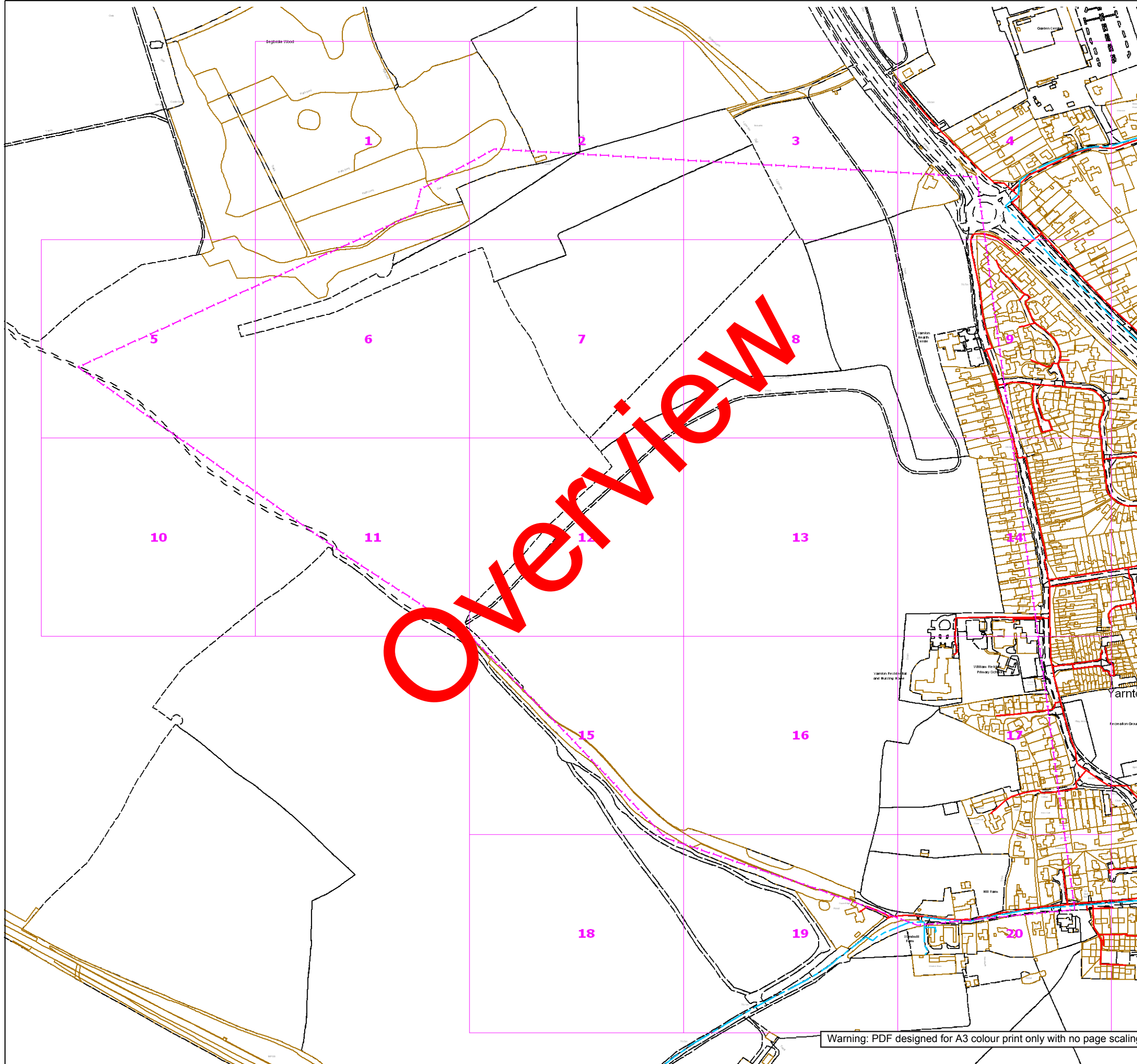
A colour copy of these plans and the gas safety advice booklet enclosed should be passed to the senior person on site in order to prevent damage to our plant and potential direct or consequential costs to your organisation.

Safe digging practices in accordance with HSE publication HSG47 "Avoiding Danger from Underground Services" must be used to verify and establish the actual position of the mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all relevant people (direct labour or contractors) working for you on or near gas pipes.

It must be stressed that both direct and consequential damage to gas plant can be dangerous for your employees and the general public and repairs to any such damage will incur a charge to you or the organisation carrying out work on your behalf. Your works should be carried out in such a manner that we are able to gain access to our apparatus throughout the duration of your operations.

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

Yours sincerely,
The Safety Admin Team
For more information, visit our Dig Safely pages on sgn.co.uk
Tel: 0800 912 1722



SGN
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Date Requested: 03/10/2018
Job Reference: 13848634
Site Location: 446894 212552
Requested by:
Mr David Gunn
Your Scheme/Reference:
22360

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



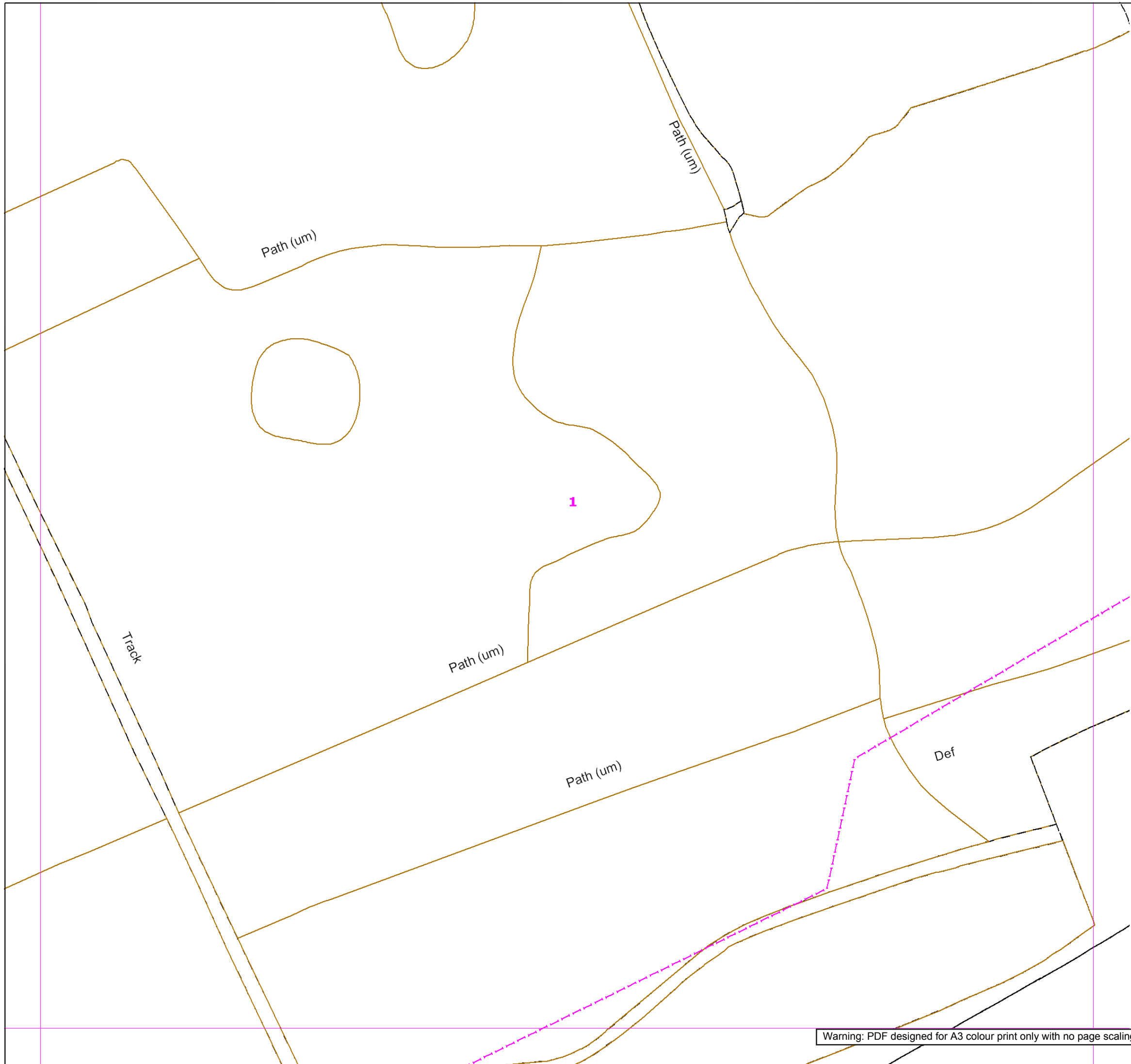
Some Examples Of Plant Items

Valve  Syphon  Depth of Cover  Diameter Change  Material Change 

Digsite: Line:  Area: 



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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

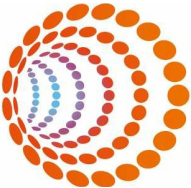
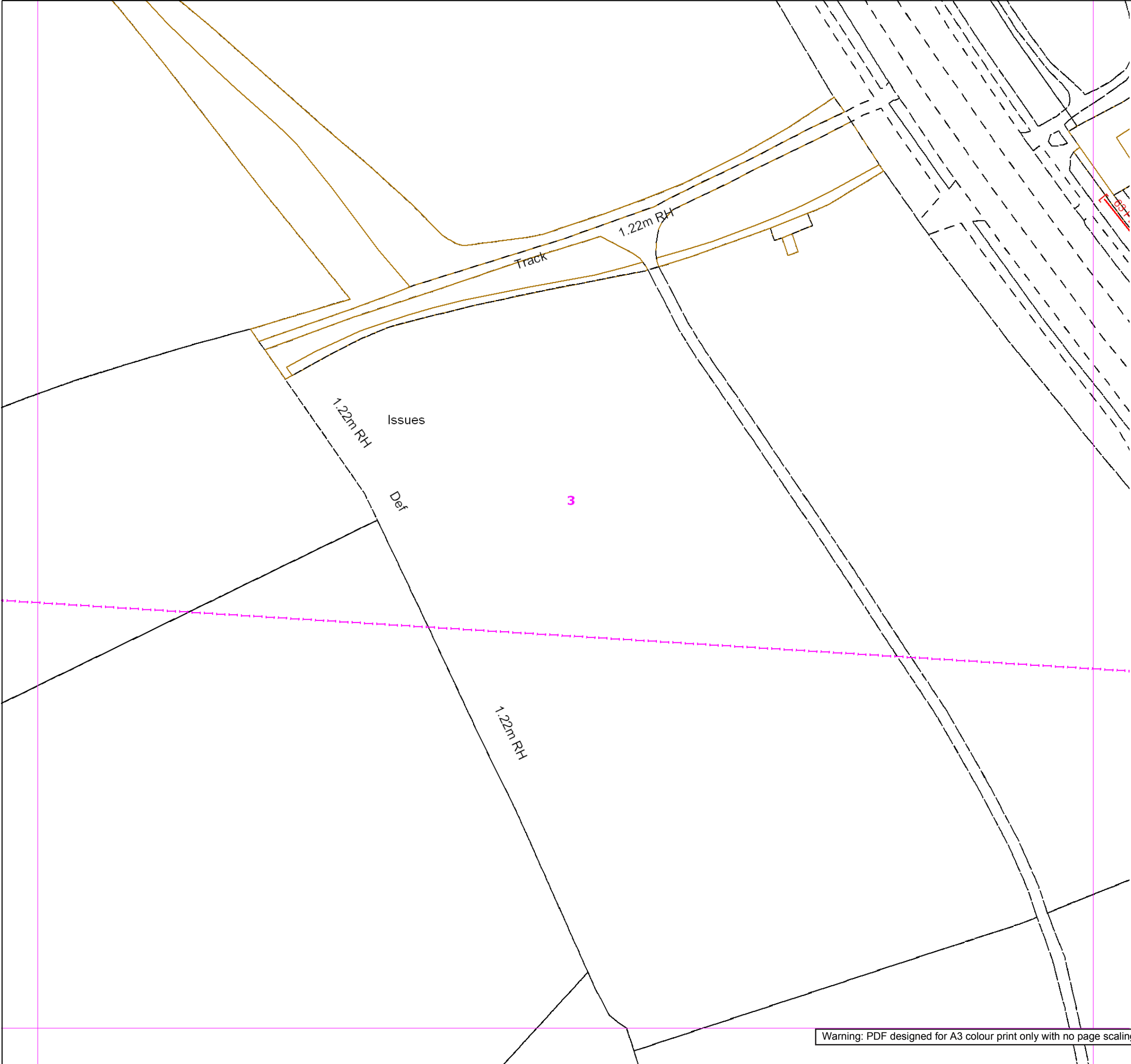
Digsite:

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

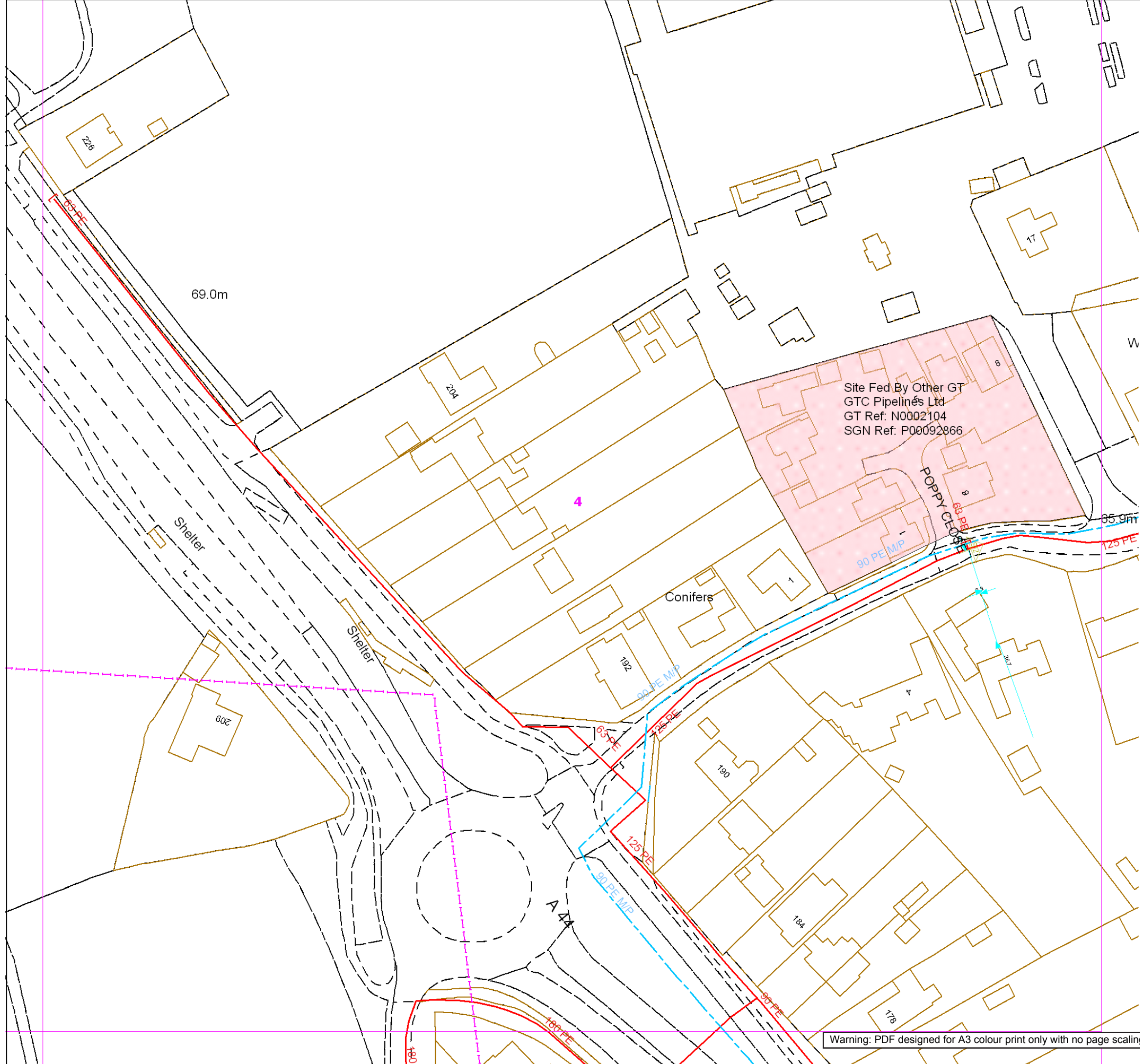
Some Examples Of Plant Items

Valve		Syphon		Depth of Cover		Diameter Change		Material Change	
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Digsite: Line: Area:



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Low Pressure Mains

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High Pressure Mains

LAs

GTs

Some Examples Of Plant Items

Valve

Syphon

Depth of Cover

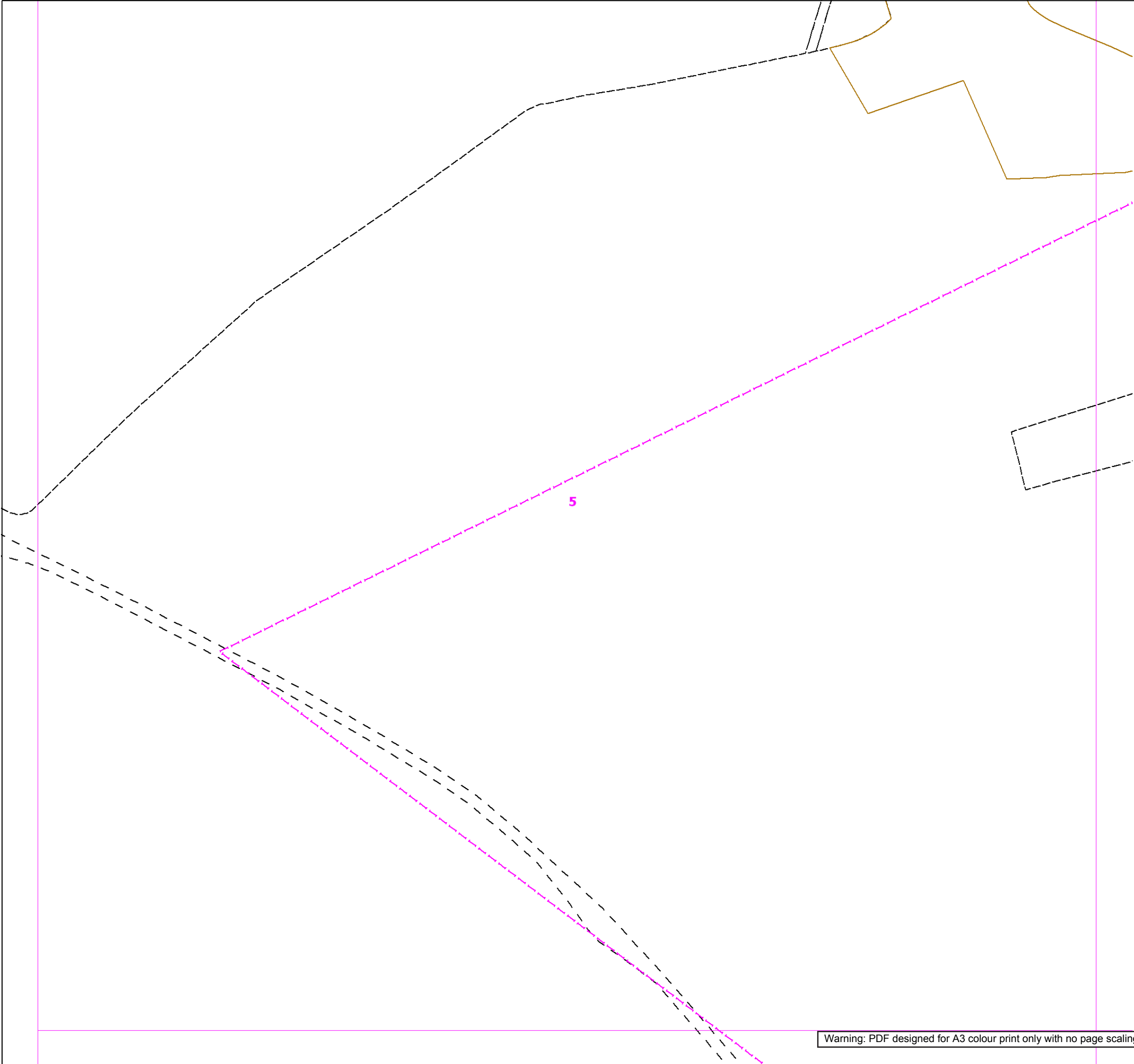
Diameter Change

Material Change

Digsite: Line: Area:



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SSSIs

Some Examples Of Plant Items

Valve

Syphon

Depth of Cover

Diameter Change

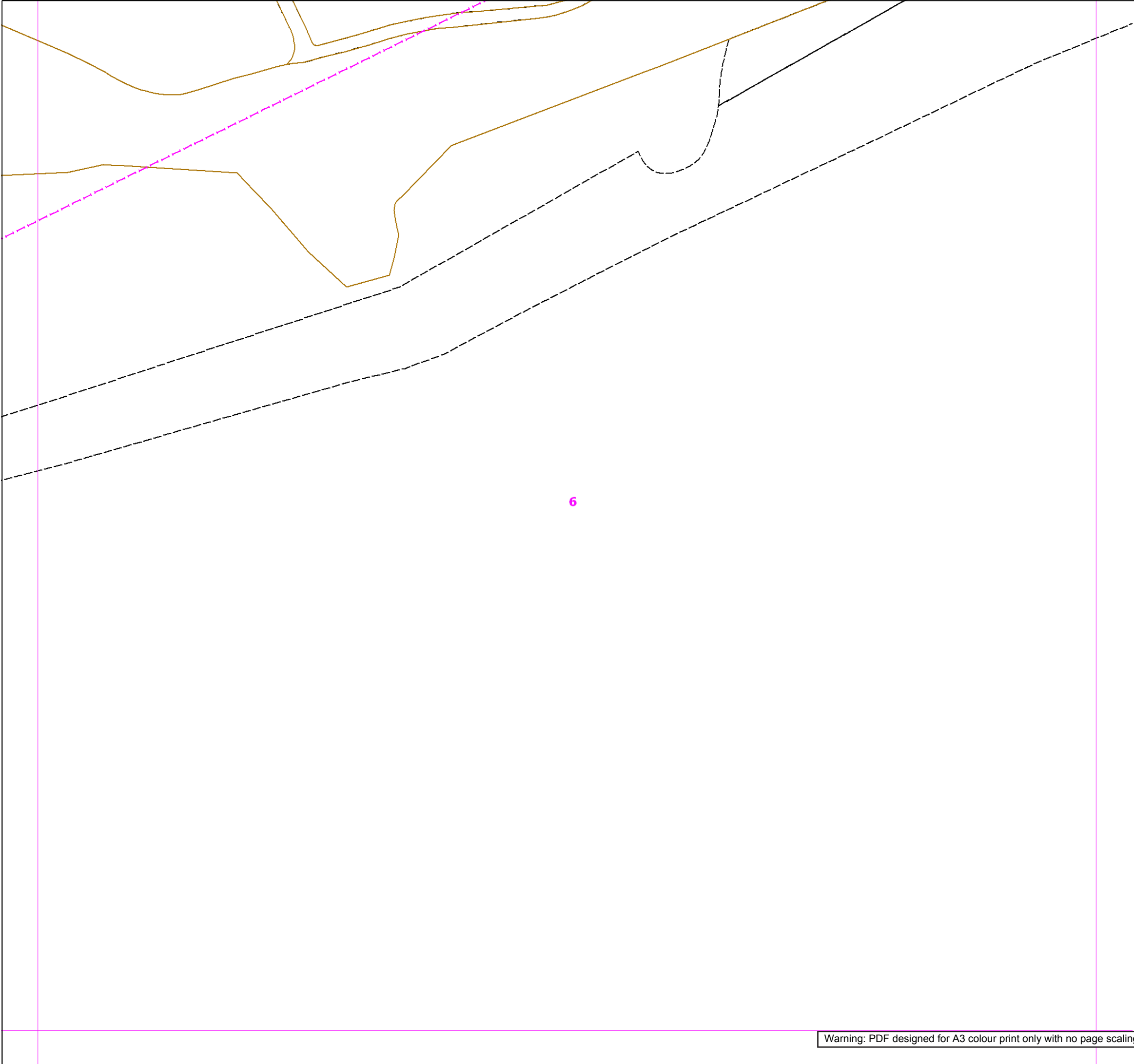
Material Change

Digsite: Line:

Area:



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

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

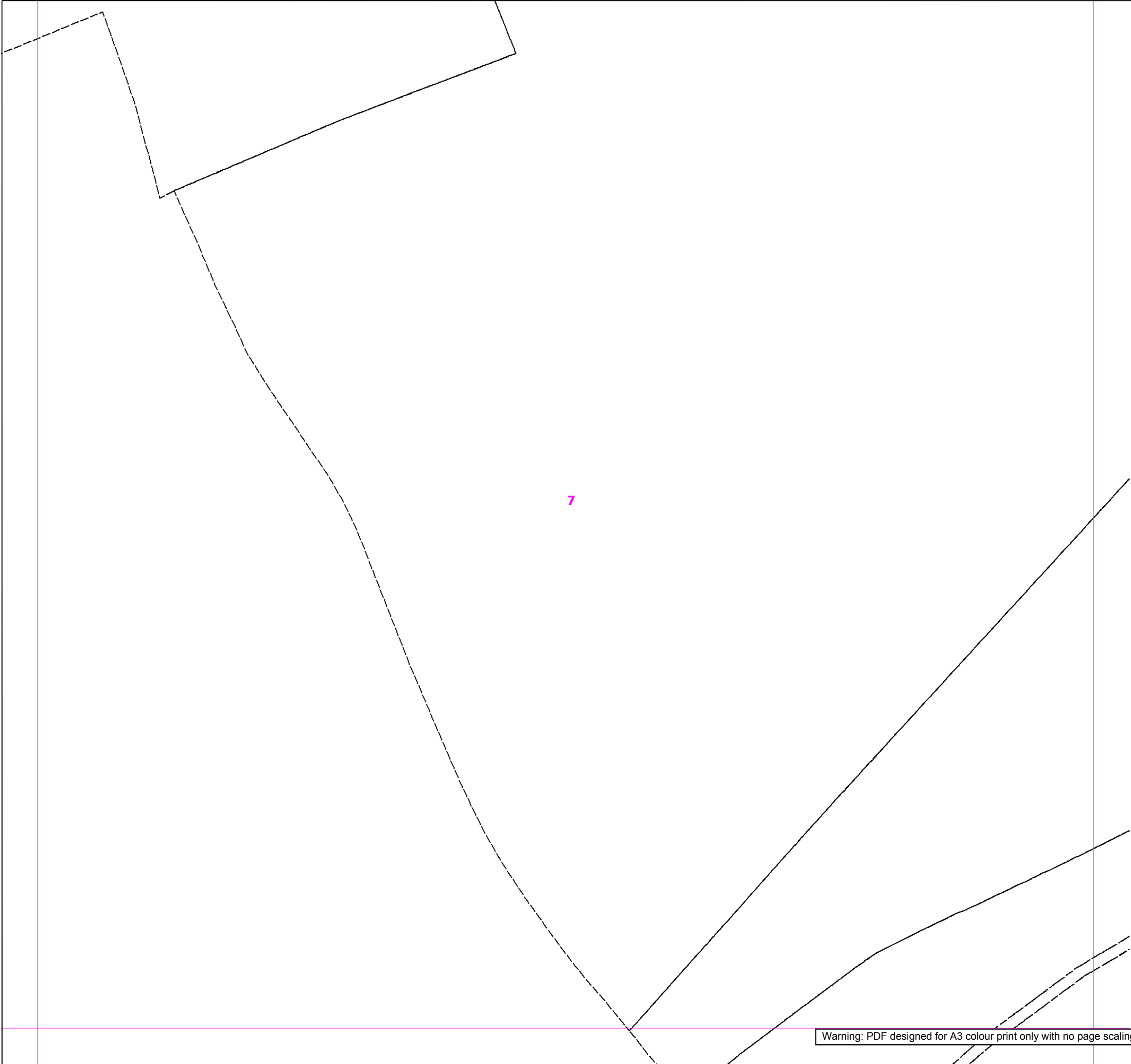
LAs 
GTs 

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

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LAs

GTs

Some Examples Of Plant Items

Valve

Syphon

Depth of Cover

Diameter Change

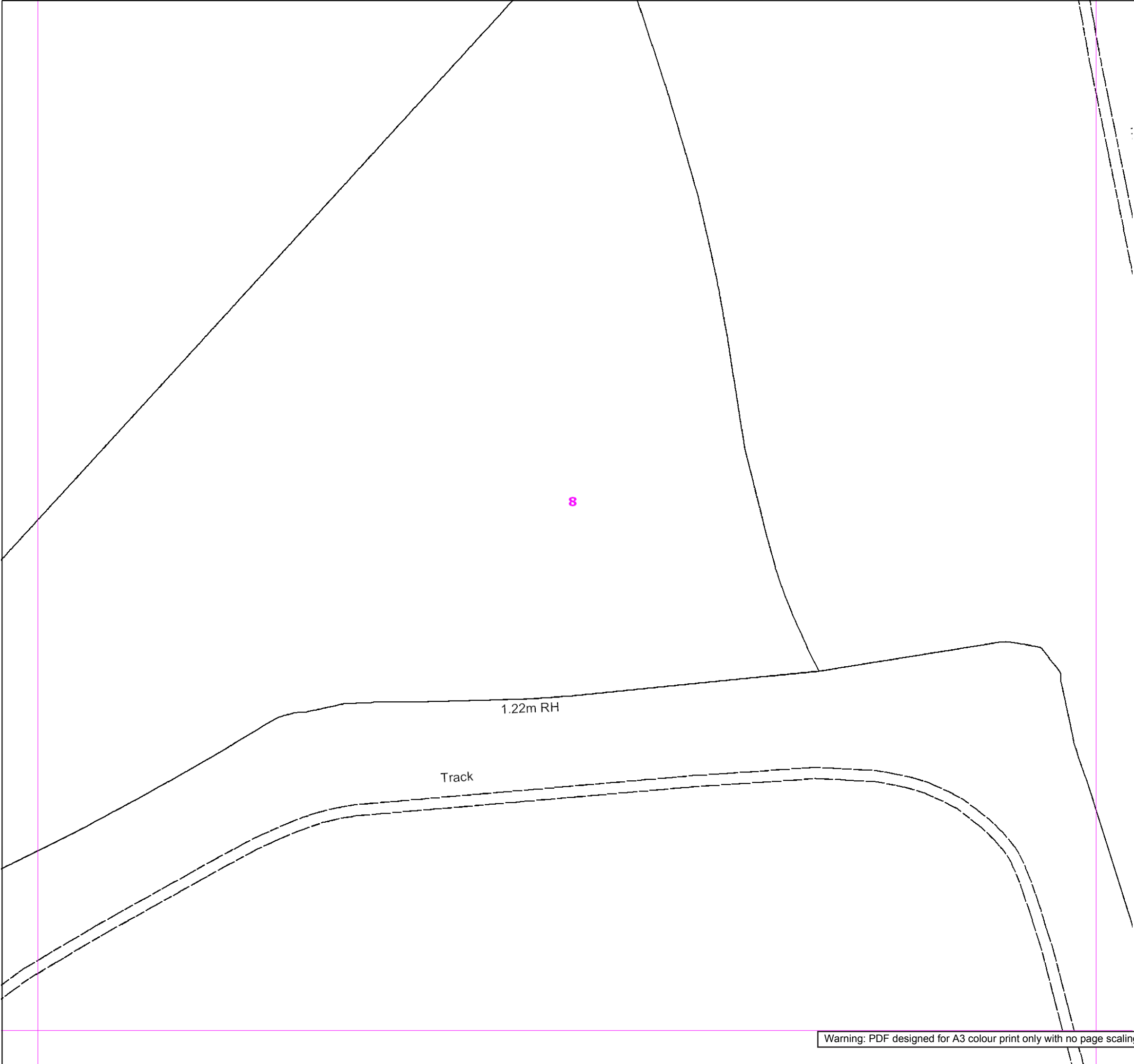
Material Change

Digsite:

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Some Examples Of Plant Items

Valve

Syphon

Depth of Cover

Diameter Change

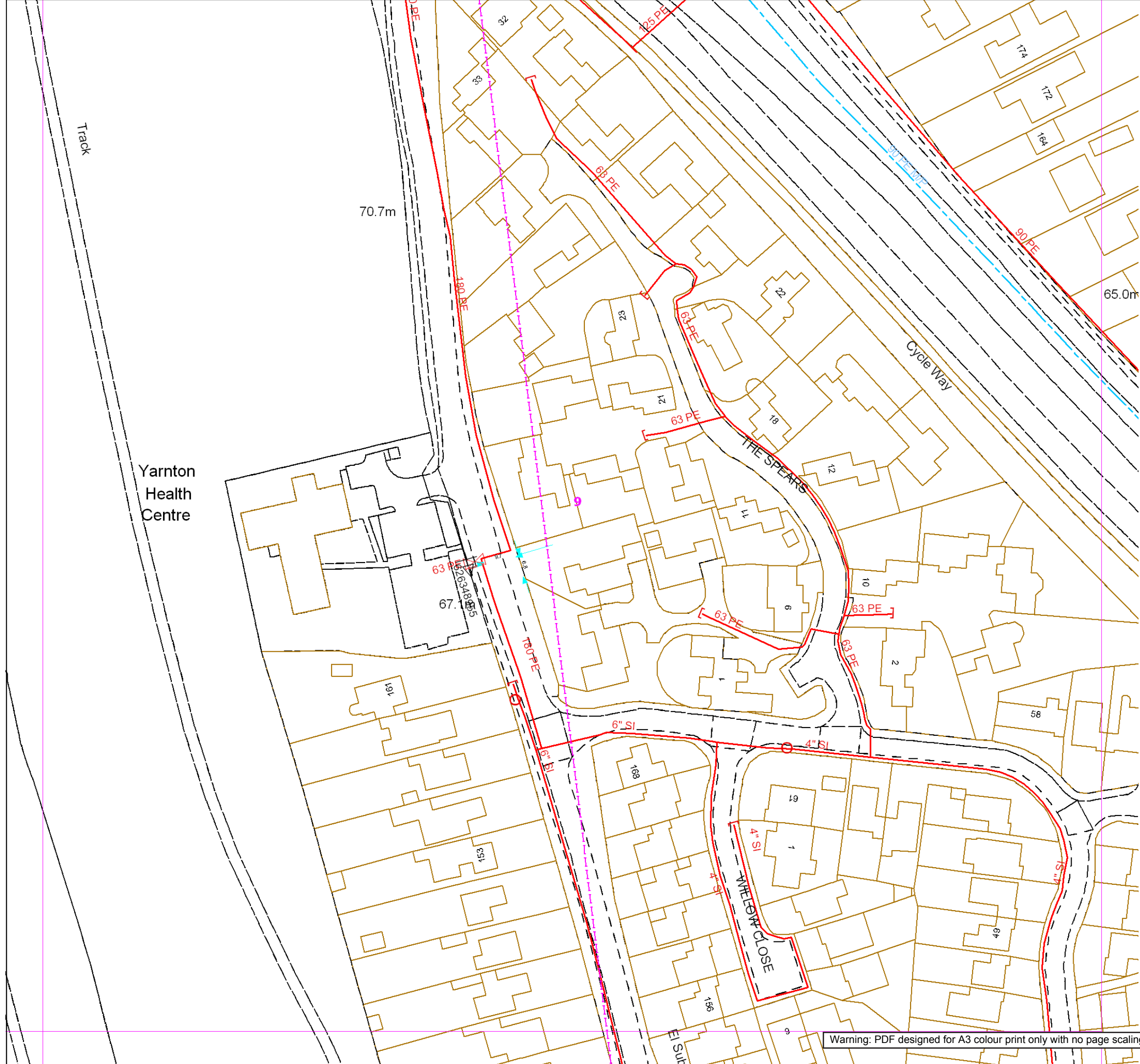
Material Change

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



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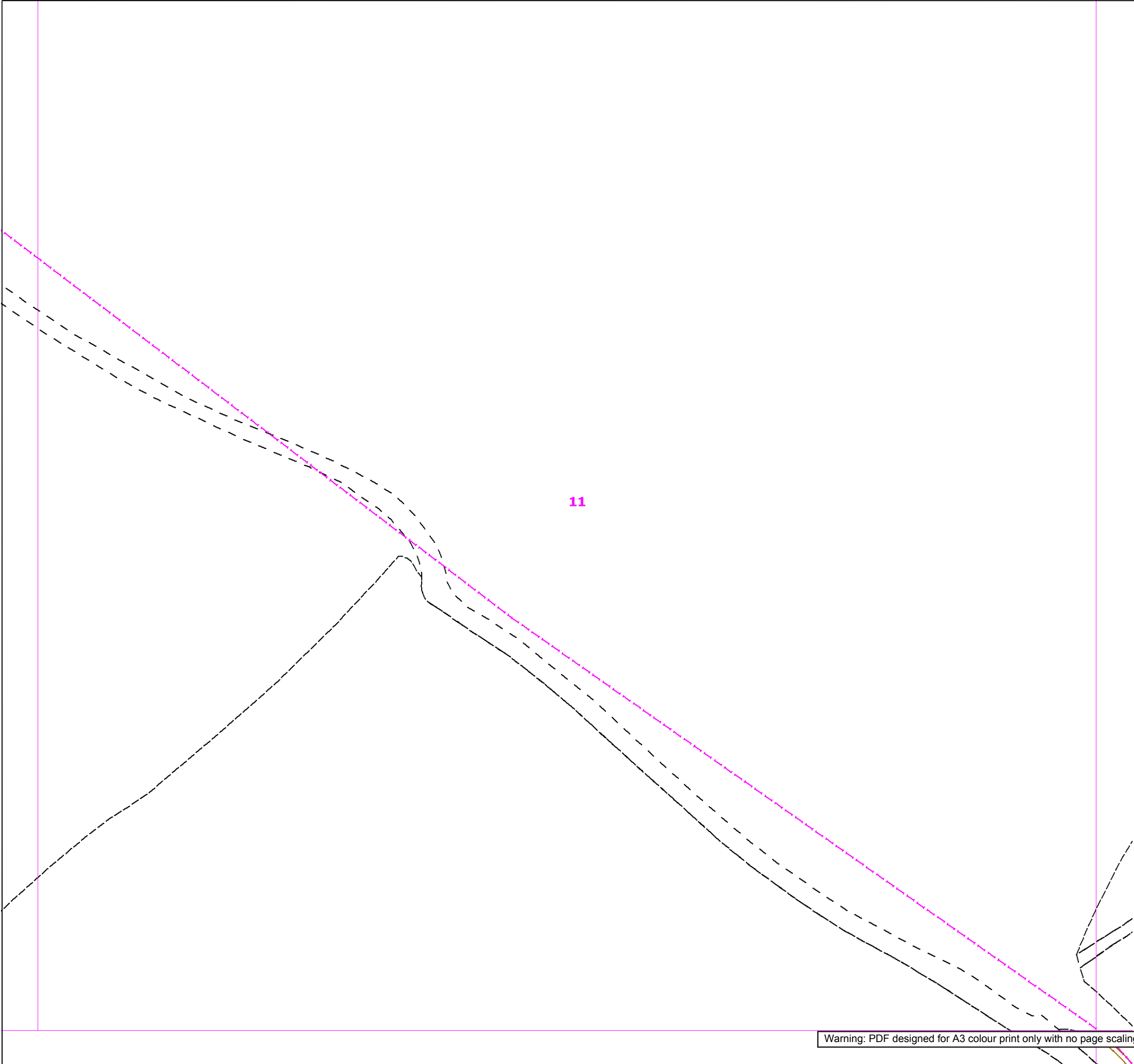
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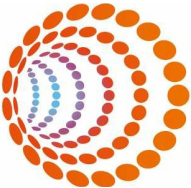
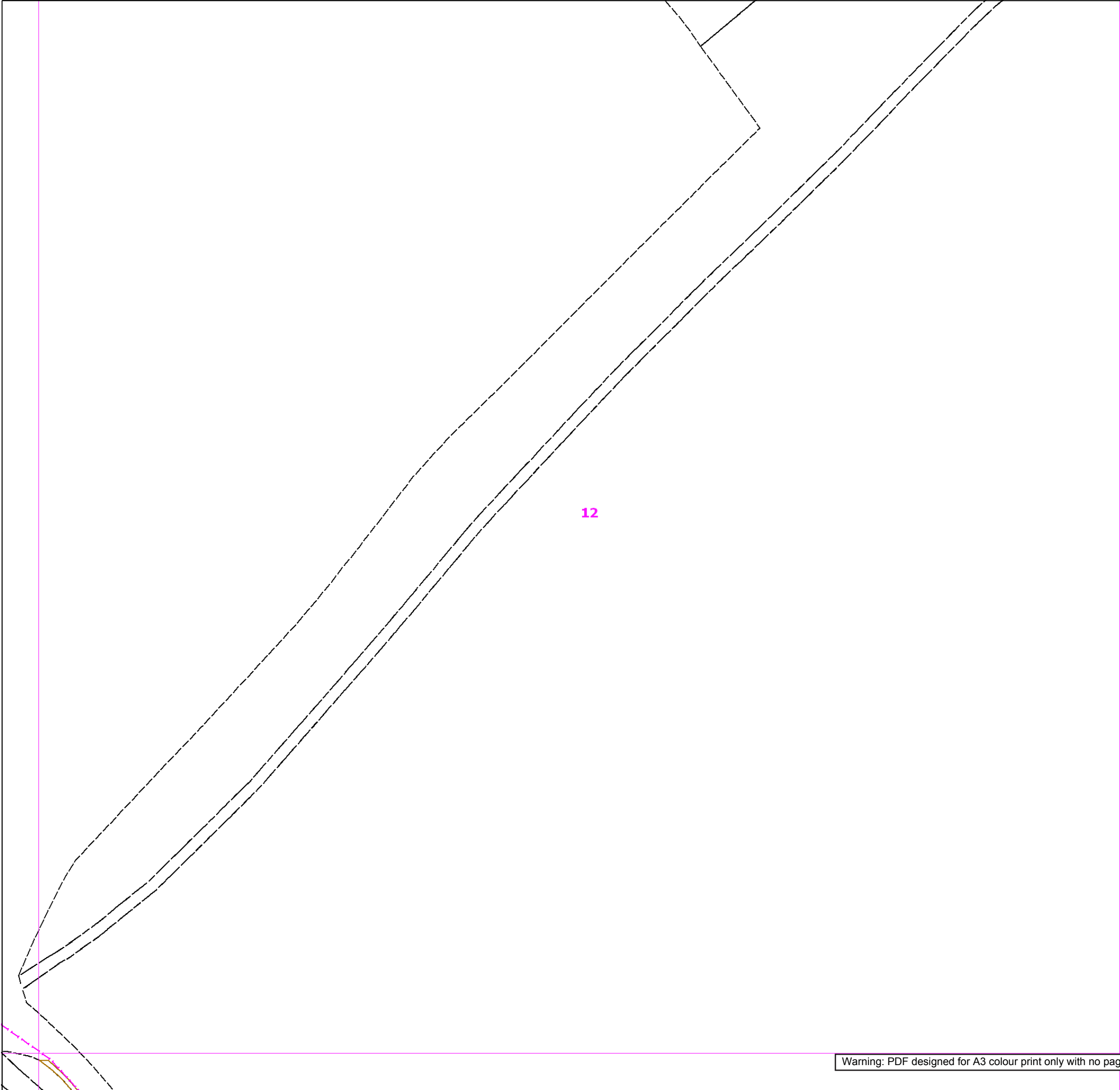
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



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

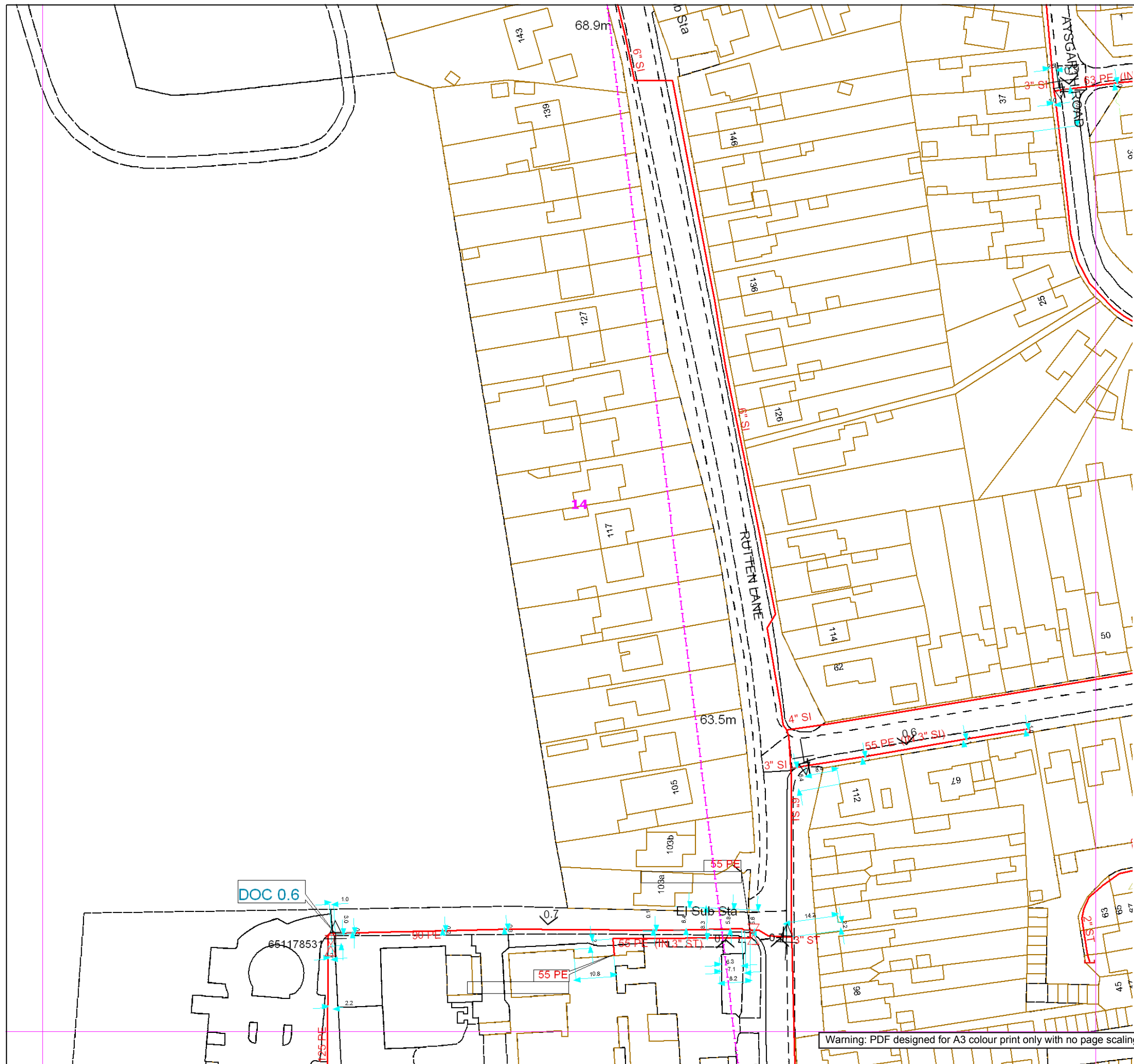
Low Pressure Mains 
Medium Pressure Mains 
Intermediate Pressure Mains 
High Pressure Mains 
LAs 
GTs  SSSIs 

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: 03/10/2018
Job Reference: 13848634
Site Location: 446894 212552
Requested by:
Mr David Gunn
Your Scheme/Reference:
22360
Exact Scales:
1:1000 Area or Circle dig site
1:1000 Line dig site

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.

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Low Pressure Mains







Medium Pressure Mains

Intermediate Pressure Mains






High Pressure Mains

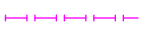
LAs


GTs



Some Examples Of Plant Items

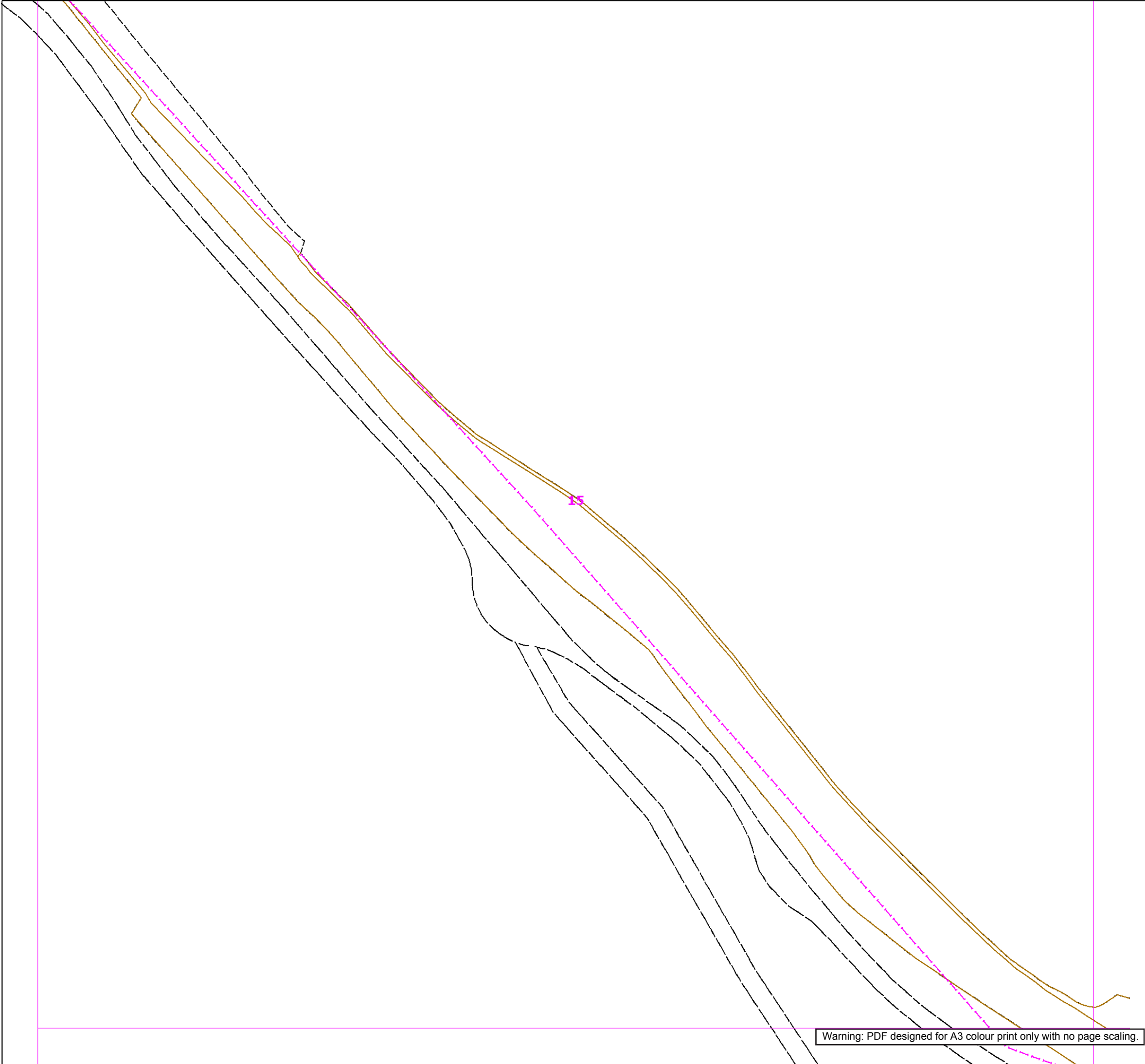
Valve  Syphon  Depth of Cover  Diameter Change  Material Change 

Digsite: Line: 

Area: 



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Contact Us

Mapping Enquiries:
All areas

General Enquiries:
All areas

Date Requested: 03/10/2018
Job Reference: 13848634
Site Location: 446894 212552
Requested by:
Mr David Gunn
Your Scheme/Reference:
22360
Exact Scales:
1:1000 Area or Circle dig site
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0800 111 999

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

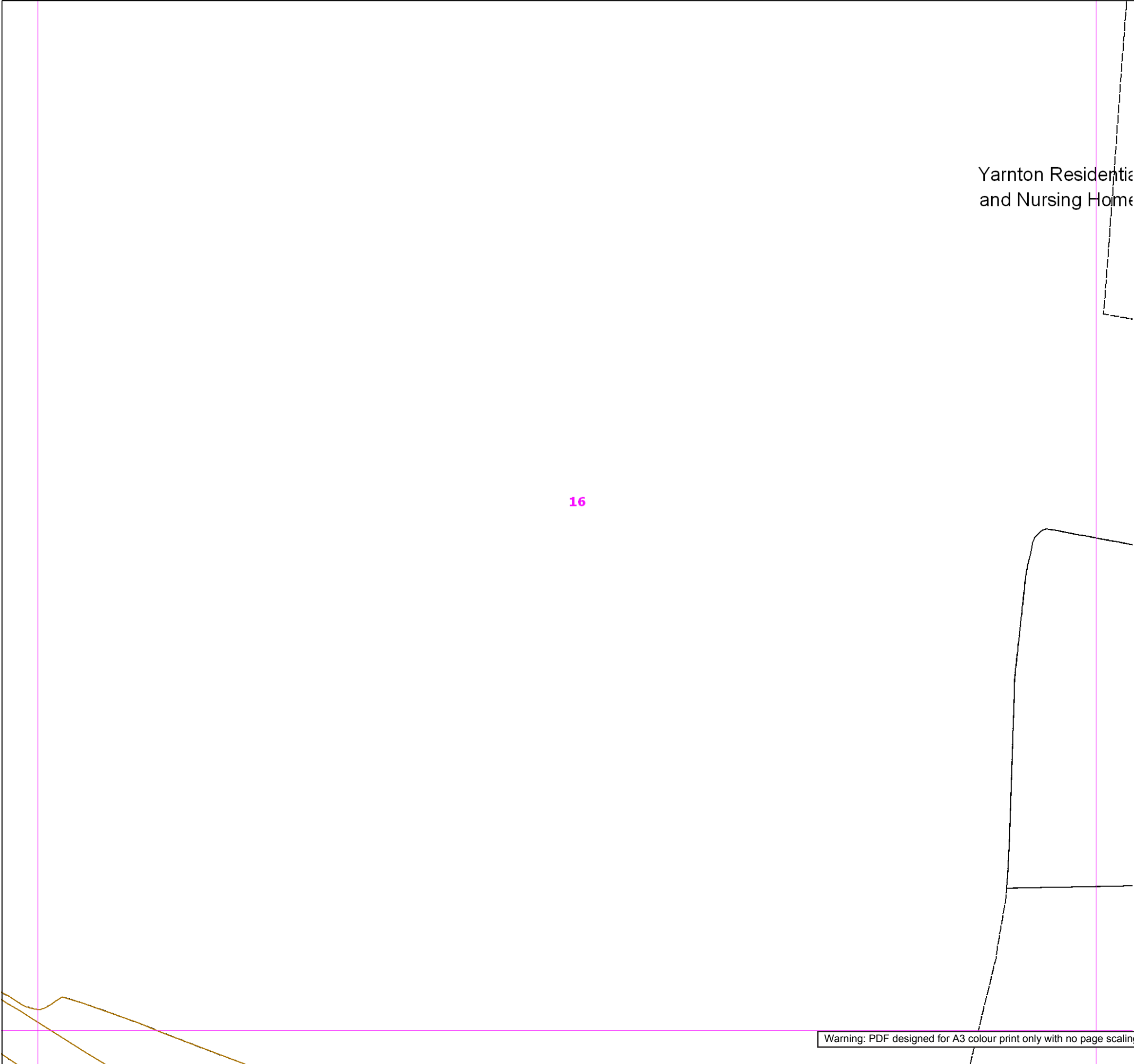
Some Examples Of Plant Items

Valve		Syphon		Depth of Cover		Diameter Change		Material Change	
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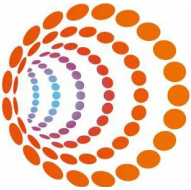
Digsite: Line: Area:



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Yarnton Residential
and Nursing Home



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

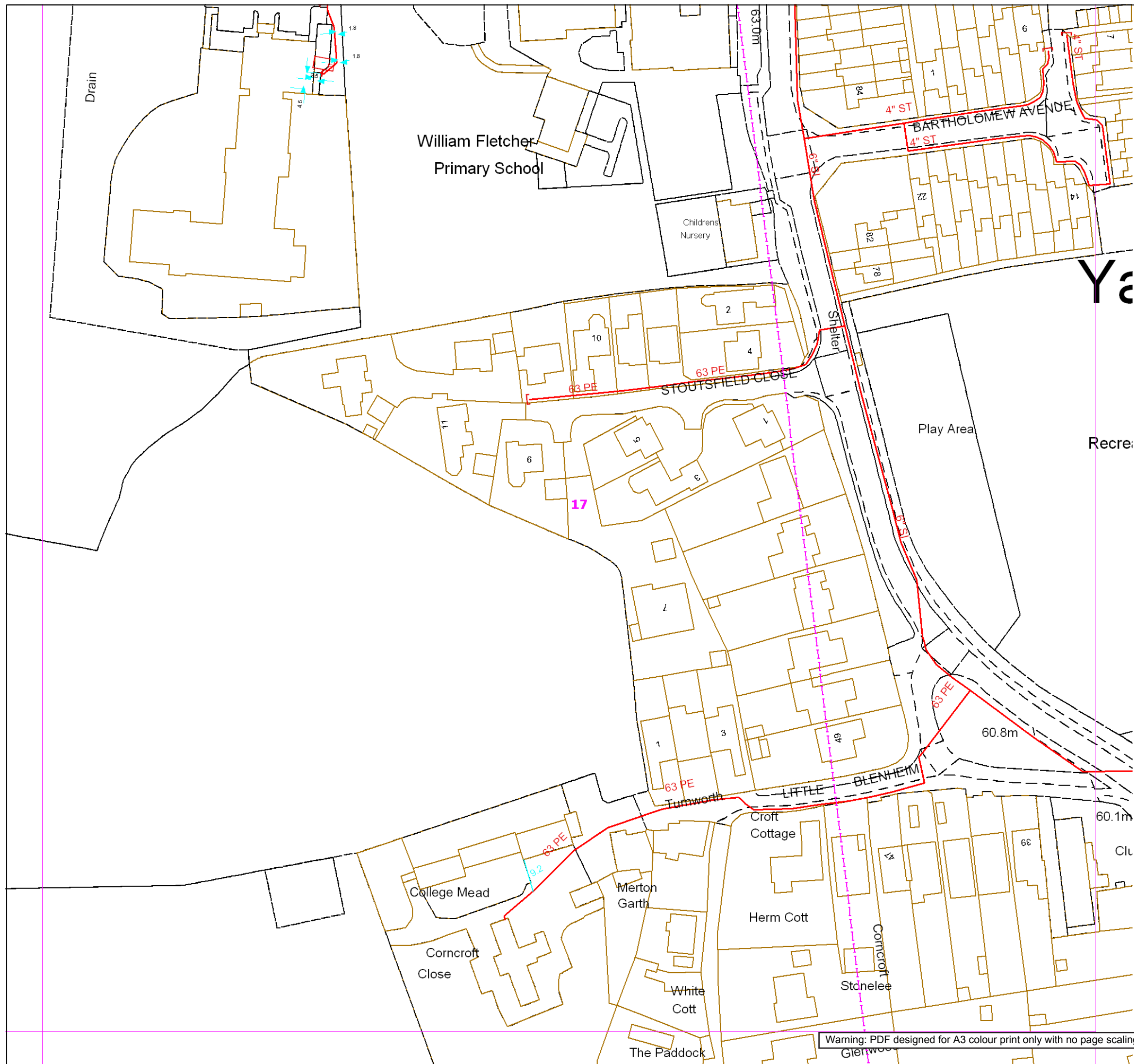
Some Examples Of Plant Items

Valve		Syphon		Depth of Cover		Diameter Change		Material Change	
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Digsite: Line: Area:



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All areas

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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

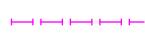
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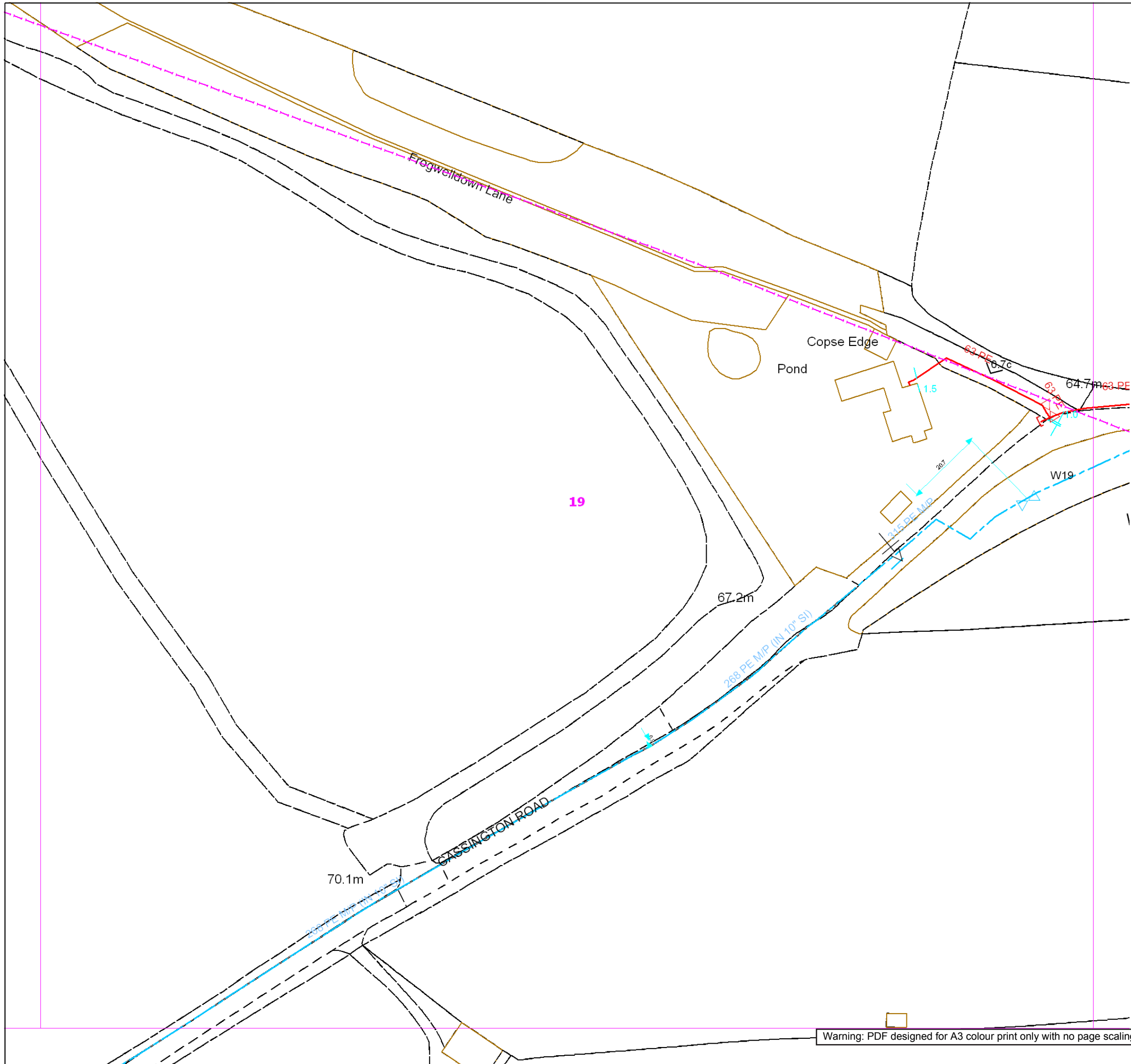
Low Pressure Mains 
Medium Pressure Mains 
Intermediate Pressure Mains 
High Pressure Mains 
LAs 
GTs  SSSIs 

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

Digsite: Line:  Area: 



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Low Pressure Mains

Medium Pressure Mains

Intermediate Pressure Mains

High Pressure Mains

LAs

GTs

Some Examples Of Plant Items

Valve

Syphon

Depth of Cover

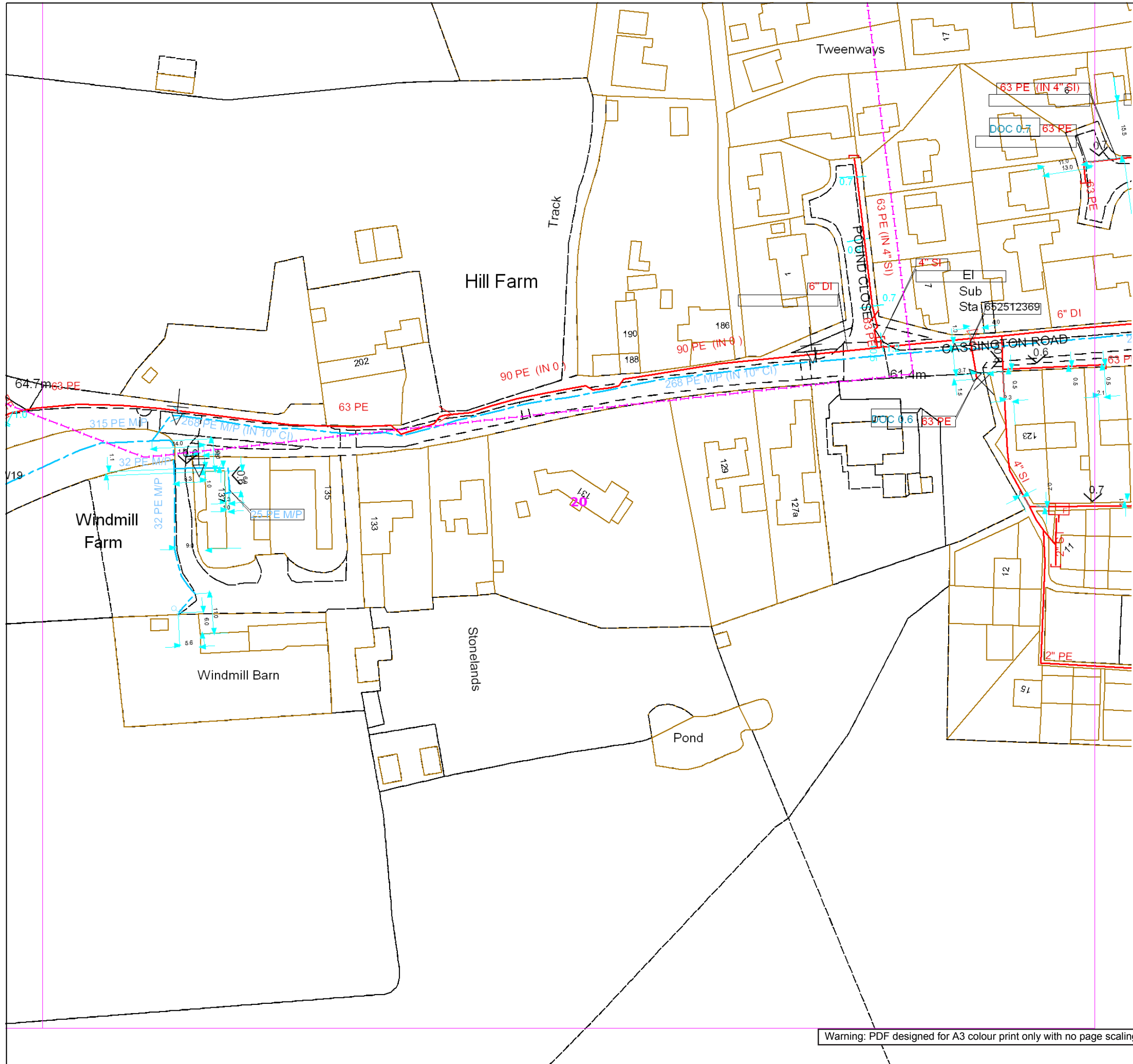
Diameter Change

Material Change

Digsite: Line: Area:



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Exact Scales:
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Low Pressure Mains

Medium Pressure Mains

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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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Our Ref: 13848652 Your Ref: 22360

Wednesday, 03 October 2018

David Gunn
Suite 8 45 Chichester Road
Southend On Sea
Essex
SS1 2JU

Dear David Gunn

Thank you for your enquiry dated Wednesday, 03 October 2018

Please find an extract from our mains records for your proposed work area, any SGN assets are described in the map legend. **On some occasions blank maps may be sent to you, this is due to your proposed work being in a no gas area but within our operational boundaries.**

This mains record only shows the pipes owned by SGN in our role as a Licensed Gas Transporter (GT). Please note that privately owned gas pipes or pipes owned by other GTs may be present in this area and information regarding those pipes needs to be requested from the owners. If we know of any other pipes in the area we will note them on the plans as a shaded area and/or a series of x's.

The information shown on this plan is given without obligation or warranty and the accuracy cannot be guaranteed. Service pipes, valves, siphons, stub connections etc. are not shown but their presence should be anticipated. Your attention is drawn to the information and disclaimer on these plans. The information included on the plan is only valid for 28 days.

On the mains record you may see the low/medium/intermediate pressure gas main near your site. There should be no mechanical excavations taking place above or within 0.5m of a low/medium pressure system or above or within 3.0m of an intermediate pressure system. You should, where required confirm the position using hand dug trial holes.

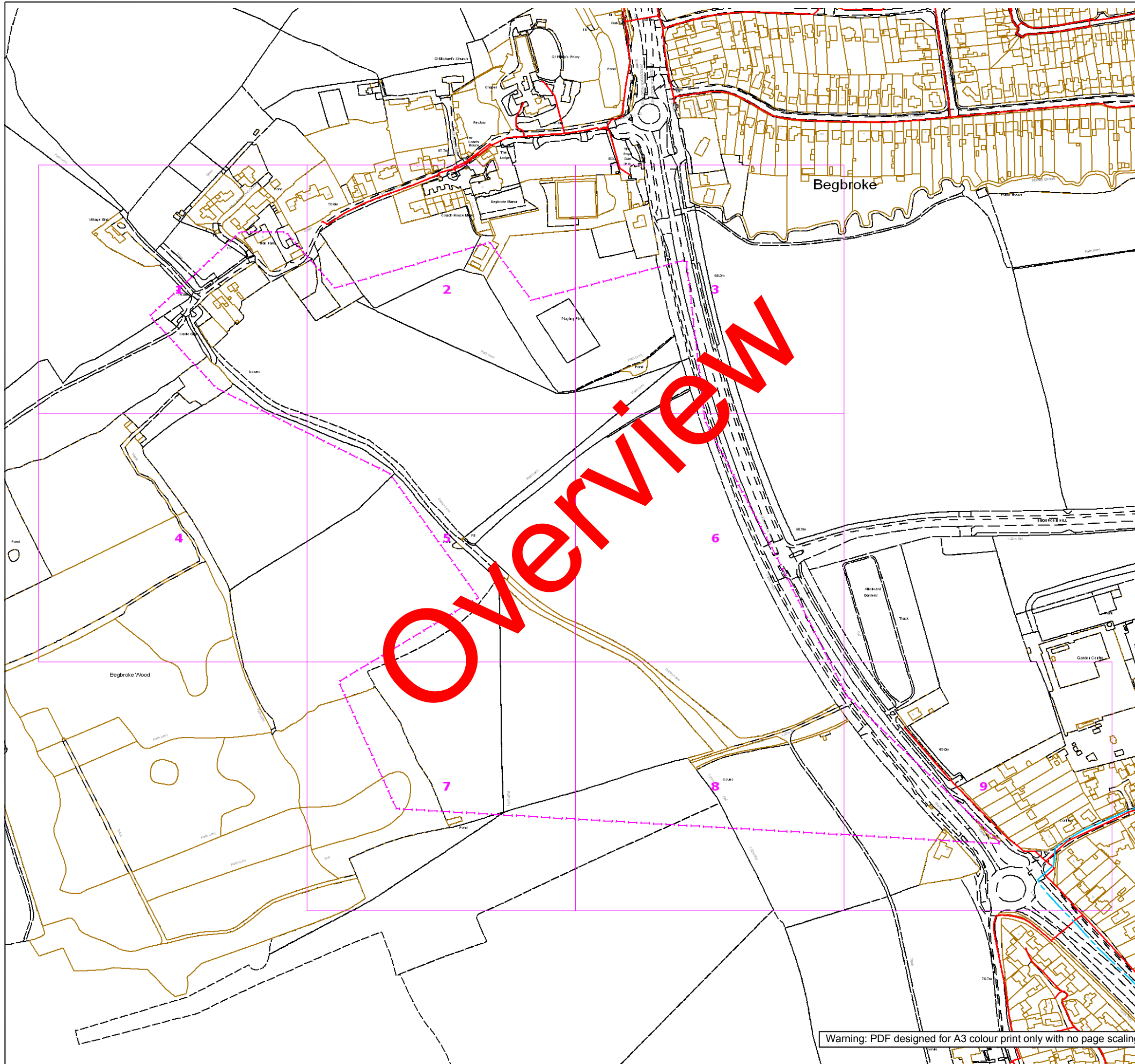
A colour copy of these plans and the gas safety advice booklet enclosed should be passed to the senior person on site in order to prevent damage to our plant and potential direct or consequential costs to your organisation.

Safe digging practices in accordance with HSE publication HSG47 "Avoiding Danger from Underground Services" must be used to verify and establish the actual position of the mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all relevant people (direct labour or contractors) working for you on or near gas pipes.

It must be stressed that both direct and consequential damage to gas plant can be dangerous for your employees and the general public and repairs to any such damage will incur a charge to you or the organisation carrying out work on your behalf. Your works should be carried out in such a manner that we are able to gain access to our apparatus throughout the duration of your operations.

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

Yours sincerely,
The Safety Admin Team
For more information, visit our Dig Safely pages on sgn.co.uk
Tel: 0800 912 1722



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Contact Us

Mapping Enquiries:
All areas

General Enquiries:
All areas

Date Requested: 03/10/2018
Job Reference: 13848652
Site Location: 446974 213418
Requested by:
Mr David Gunn
Your Scheme/Reference:
22360

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Low Pressure Mains

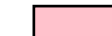
Medium Pressure Mains

Intermediate Pressure Mains

High Pressure Mains

LAs

GTs



SSSIs



Some Examples Of Plant Items

Valve



Syphon



Depth of Cover



Diameter Change



Material Change



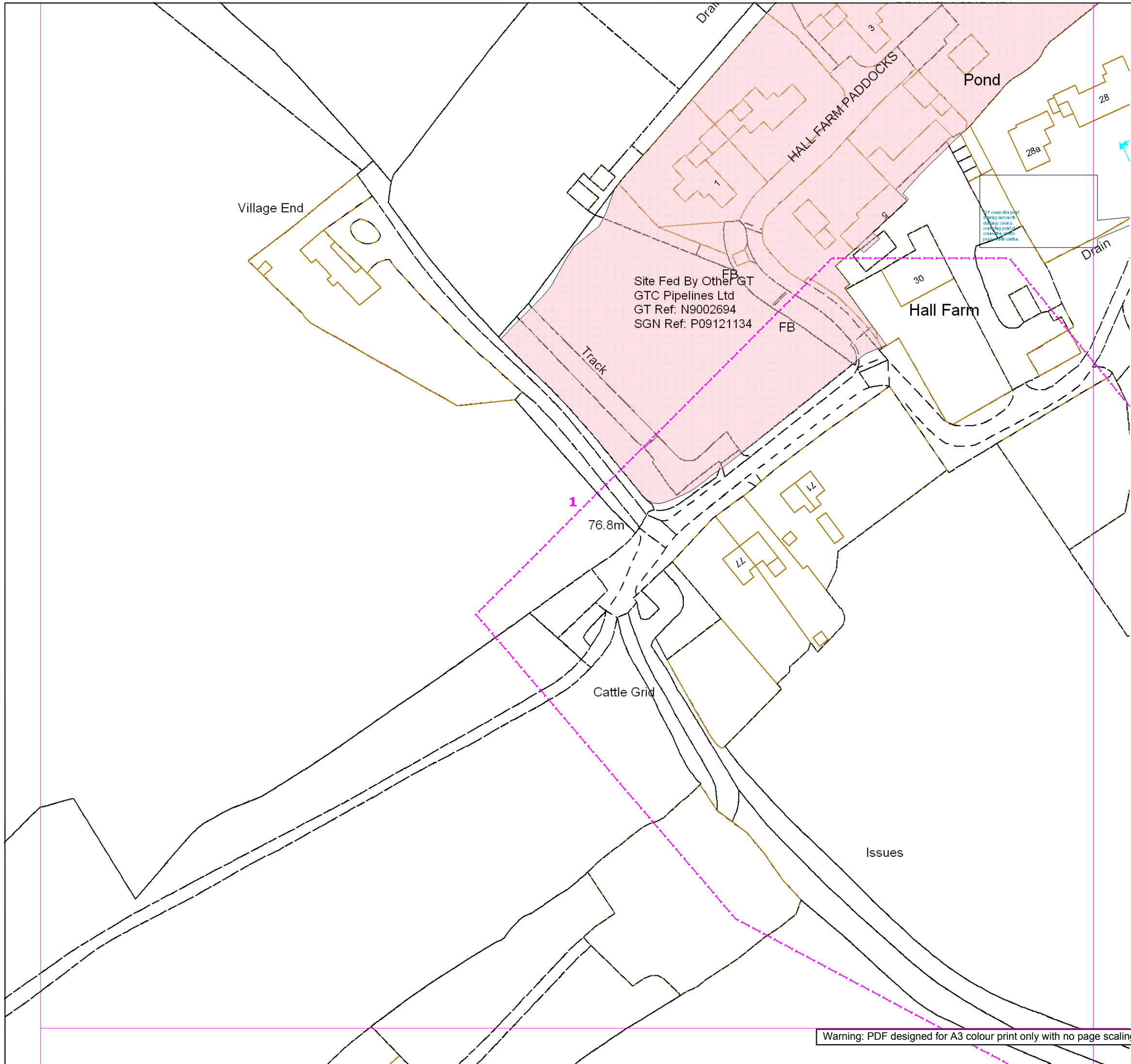
Digsite:

Line:

Area:



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Contact Us
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All areas

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Date Requested: 03/10/2018
Job Reference: 13848652
Site Location: 446974 213418
Requested by:
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Your Scheme/Reference:
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Exact Scales:
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LAs

GTs

SSSIs

Some Examples Of Plant Items

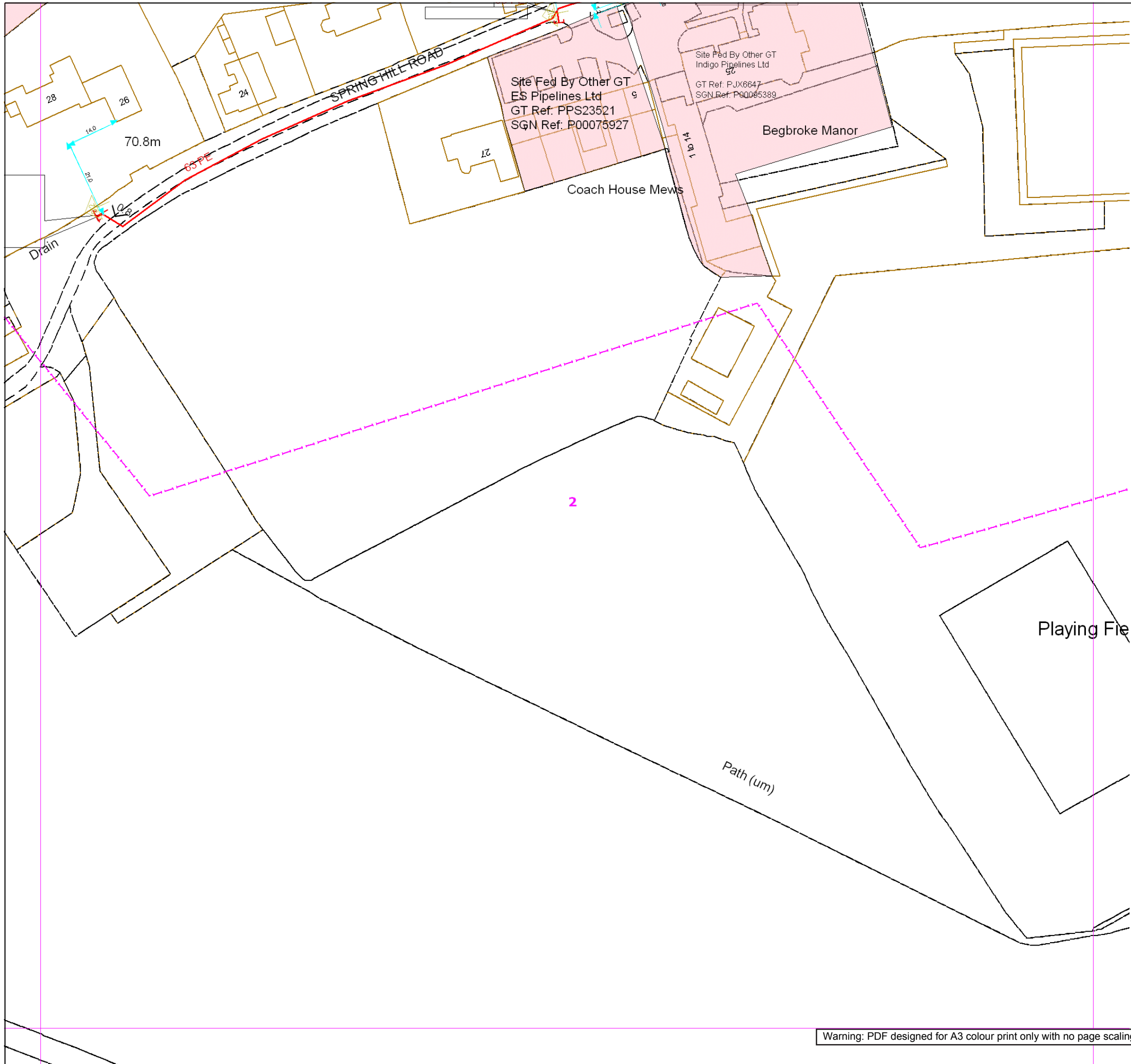
Valve Syphon Depth of Cover Diameter Change Material Change

Digsite: Line:

Area:



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Diameter Change

Material Change

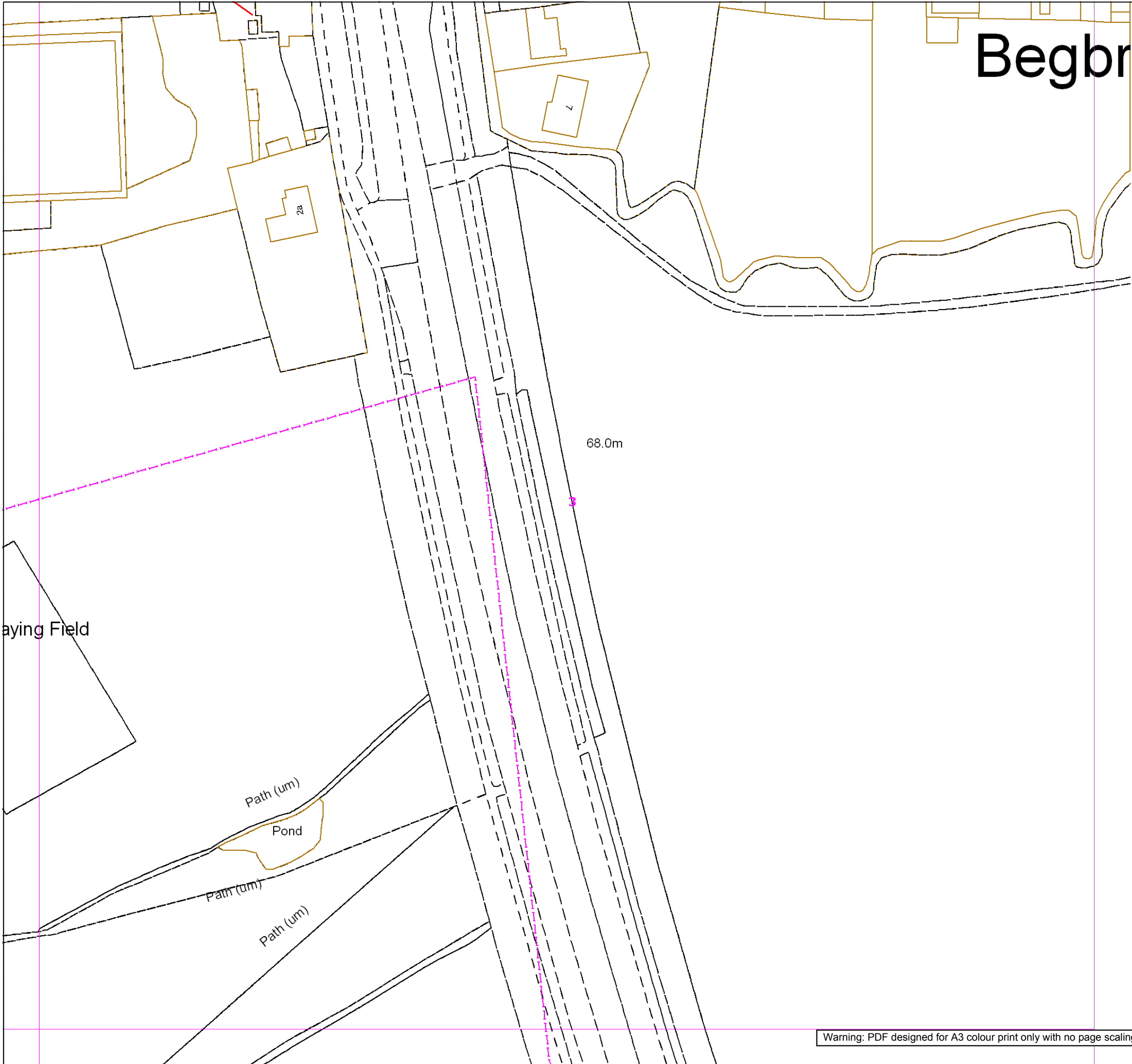
Digsite:

Line:

Area:



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Mapping Enquiries:
All areas

General Enquiries:
All areas






Date Requested: 03/10/2018
Job Reference: 13848652
Site Location: 446974 213418
Requested by:
Mr David Gunn
Your Scheme/Reference:
22360
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 ————

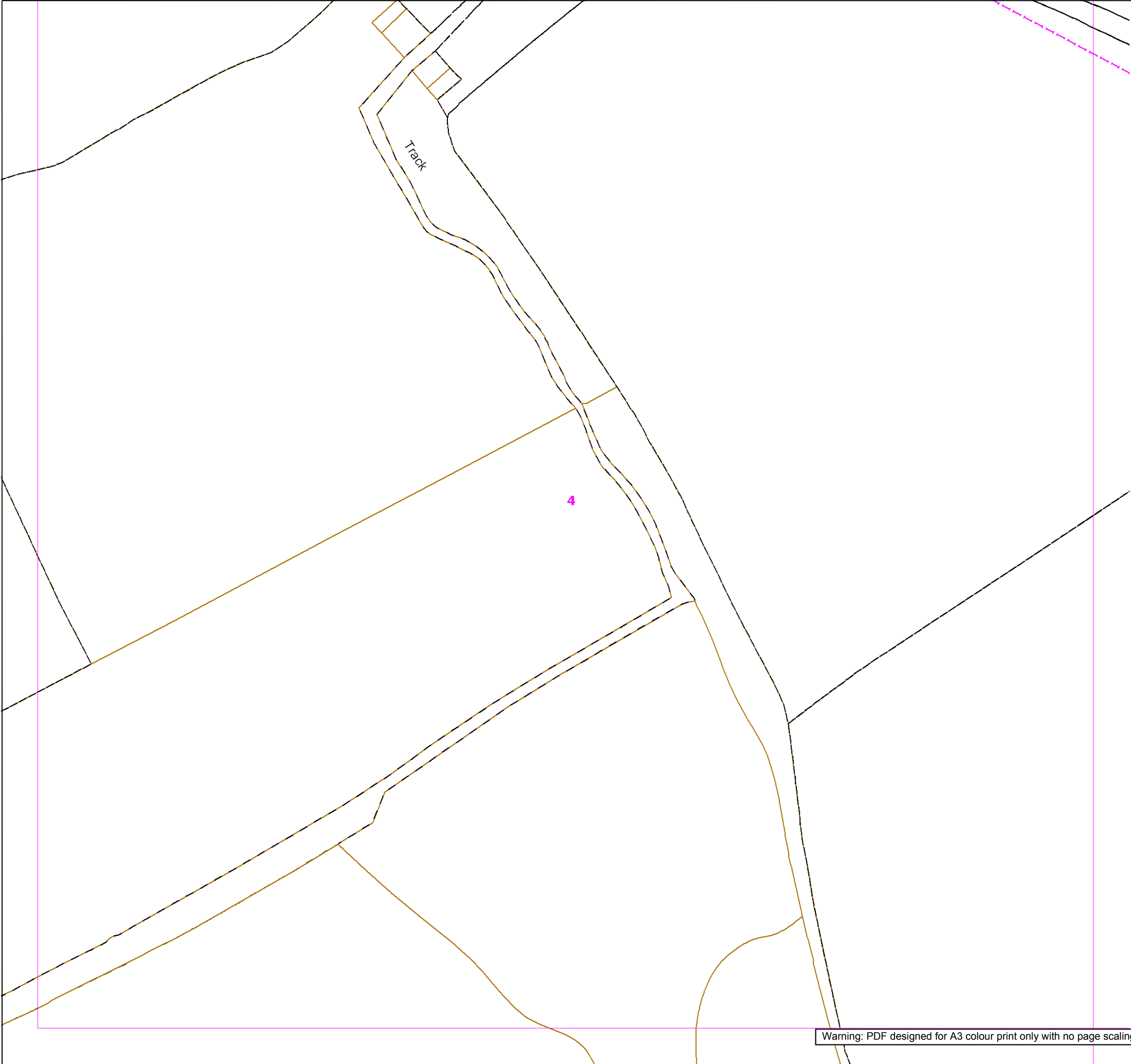
LAs
GTs  SSSIs 

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

Digsite: Line:  Area: 



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



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

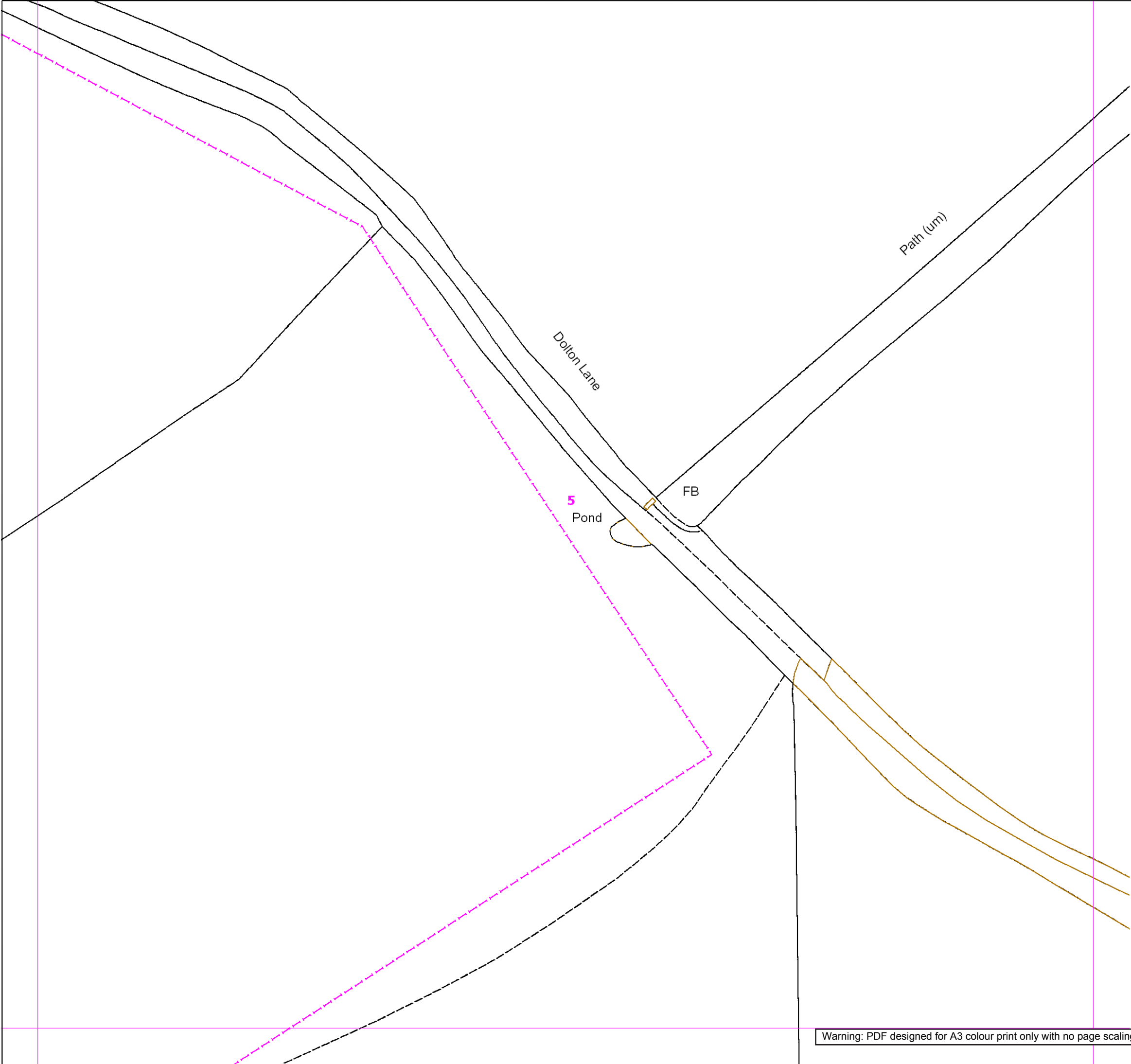
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Some Examples Of Plant Items
Valve  Syphon  Depth of Cover  Diameter Change  Material Change 

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Syphon

Depth of Cover

Diameter Change

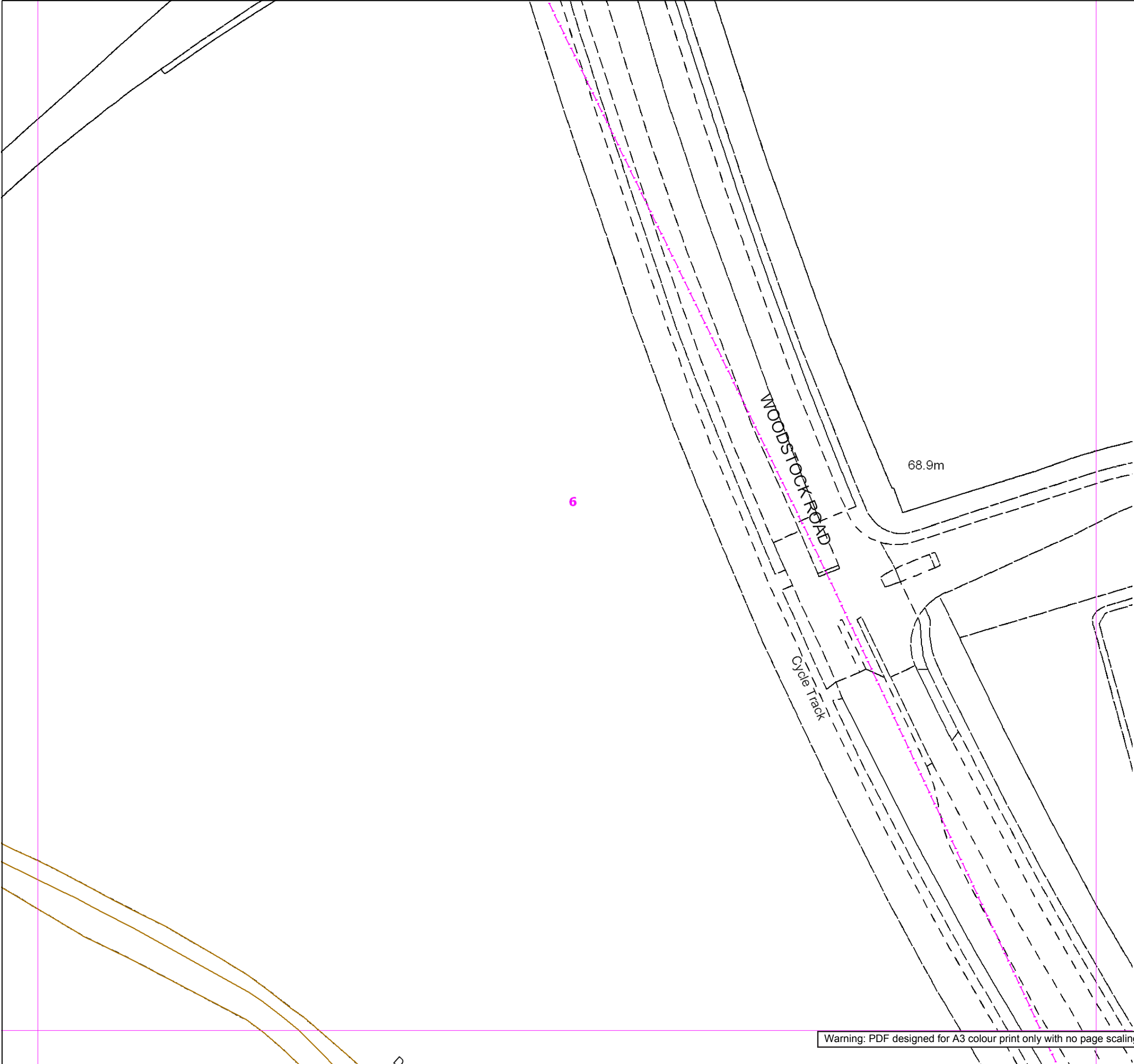
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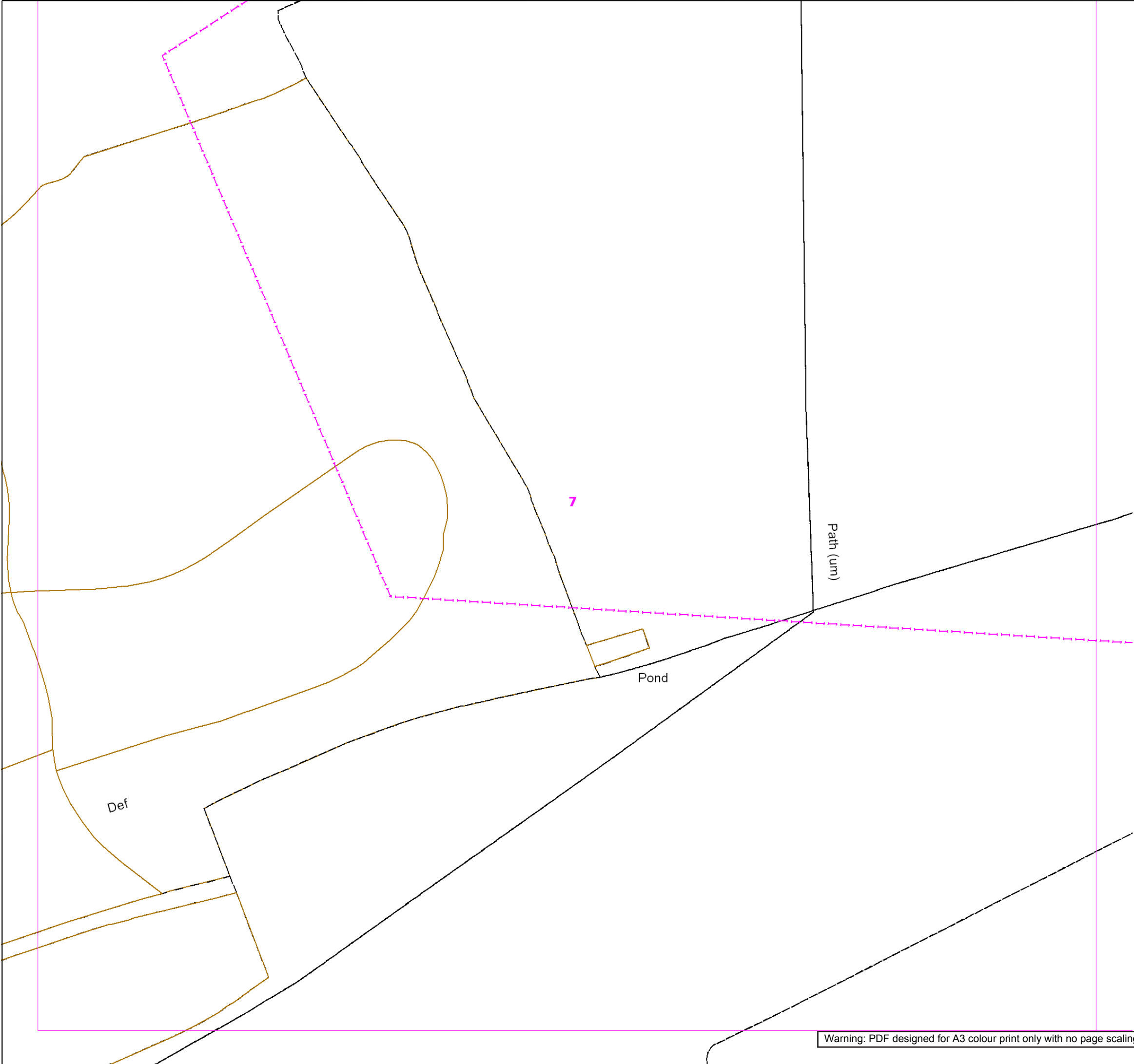
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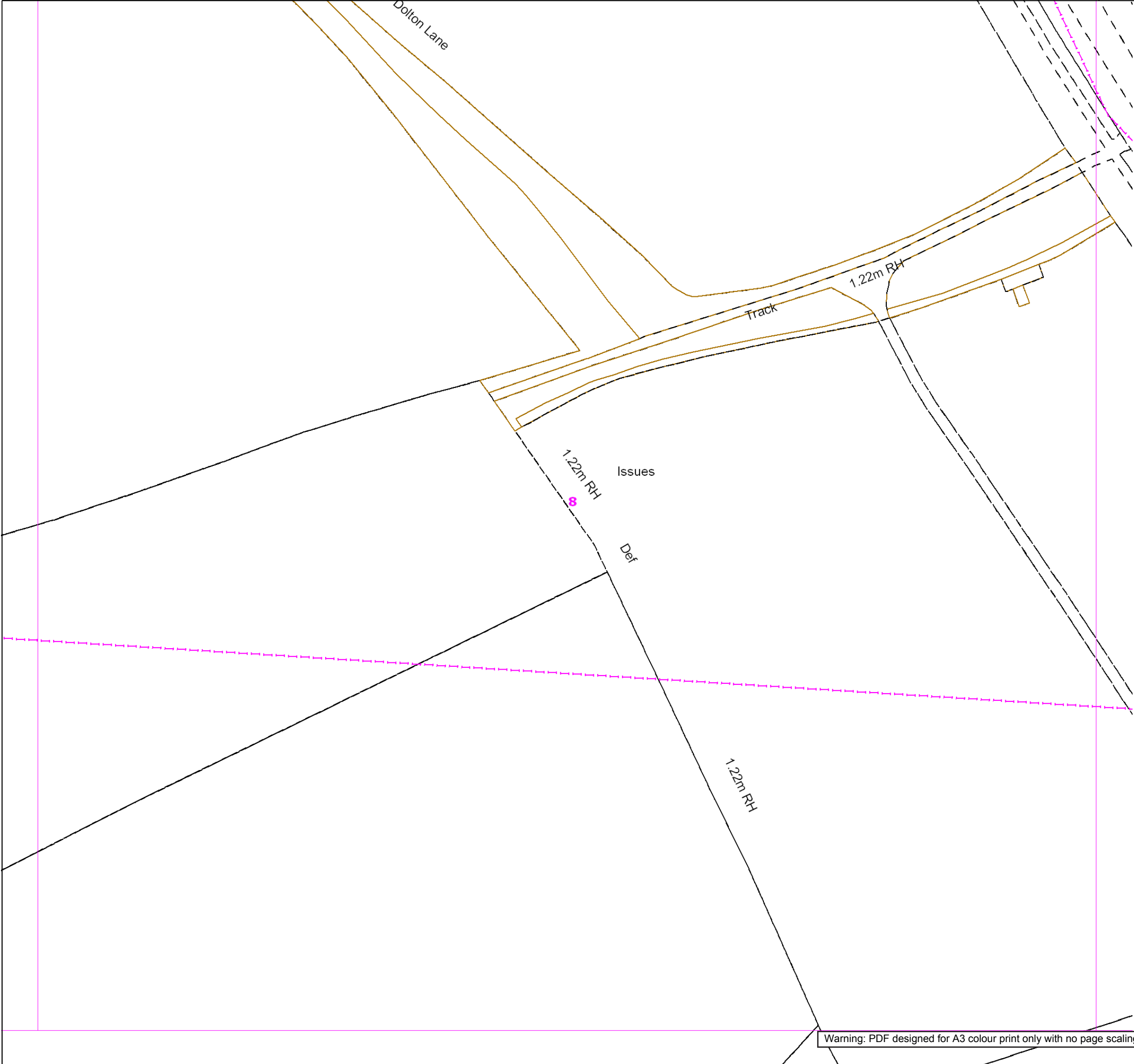
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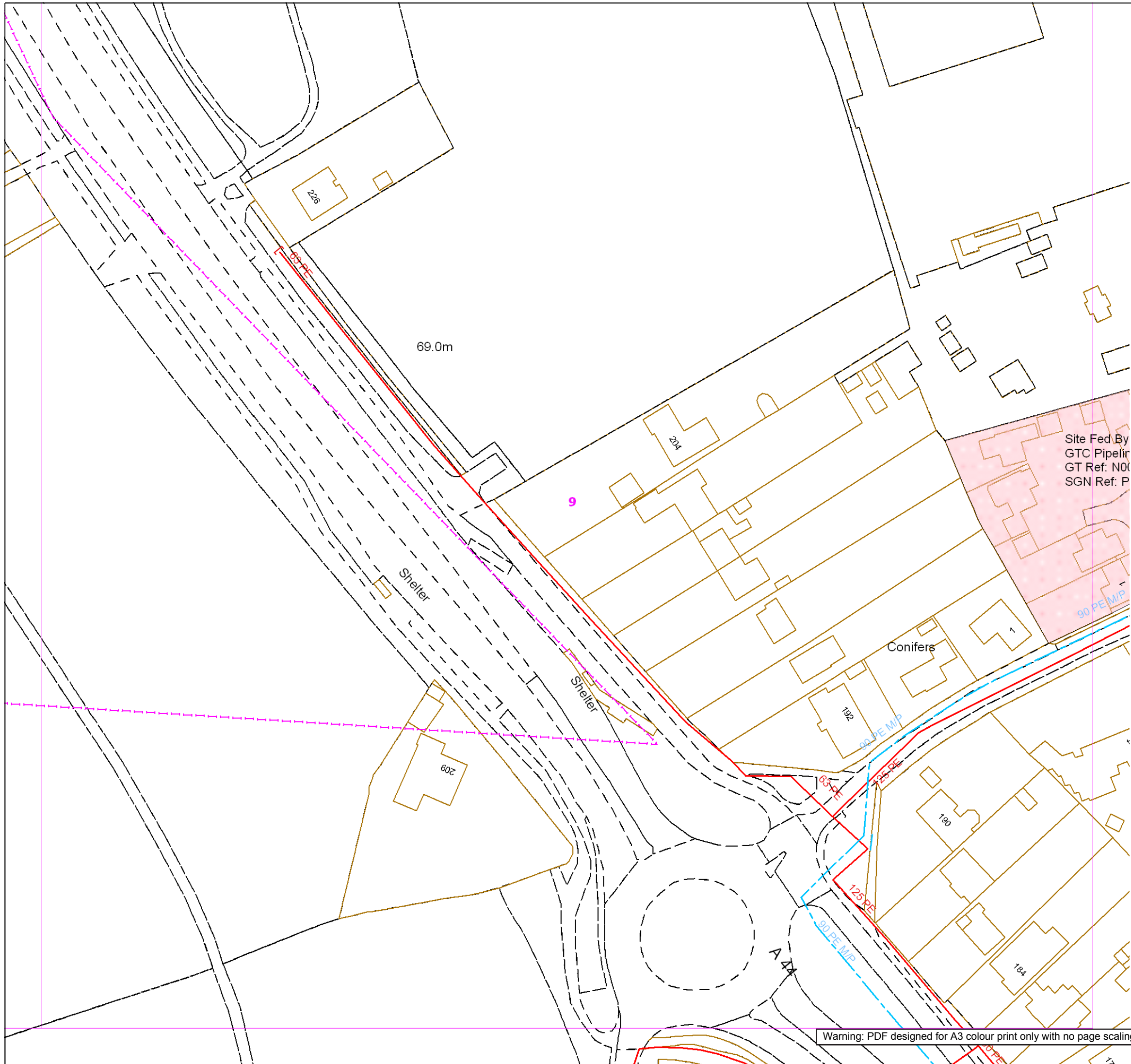
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Dig safely

Measures to avoid injury
and damage to gas pipes



The following protective and precautionary measures MUST be taken when working in the vicinity of gas mains and services.

It is the responsibility of the property owner or company carrying out the work to make sure they've complied with the relevant legislation and Health and Safety Executive (HSE) guidance, eg HS(G)47. In practice, this means that whoever is carrying out the work MUST obtain gas mains location information and/or maps showing the indicative position of the gas network before any work takes place.

To avoid injury to yourself, your employees, colleagues and the general public you MUST suitably mark the position of the pipes on site.

HS(G)47 outlines best practice that should be followed to ensure you work safely:

1. Plan the work, obtain maps.
2. Detecting, identifying and marking underground services.
3. Safe excavation and safe digging practices.

In addition to the requirements under the Health and Safety At Work etc. Act 1974 to prevent injuries to employees and others (not employed), it is an offence under regulation 15 of the Pipelines Safety Regulations 1996 to cause damage to a pipeline (which includes gas mains and services as well as higher pressure pipelines) so as to give rise to a danger to persons.

You MUST make sure that current full colour copies of our maps are issued to all relevant personnel on site and they're aware of the presence and location of our gas mains and services prior to any excavation.

In a gas emergency

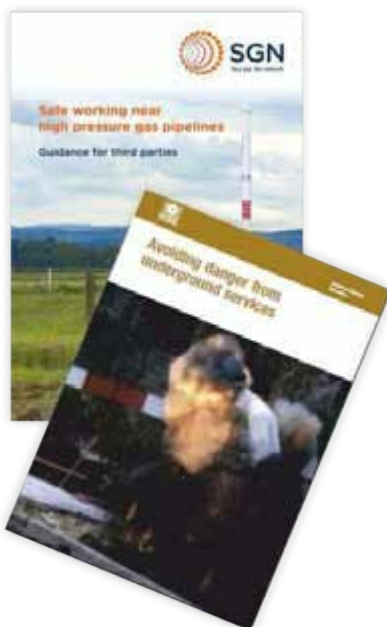
If you cause a gas leak or suspect a main or service pipe or equipment is leaking, you **MUST** take the following emergency actions immediately:

- **Ask people to move away from the area of the gas escape.**
- **Call 0800 111 999 immediately.**

1. **Don't attempt to repair the escape or stop the leakage.**
2. **As gas may enter buildings, ask people in the surrounding premises to leave until it's safe for them to return.**
3. **Stop anyone going near the immediate vicinity of the gas escape.**
4. **Prohibit smoking and extinguish all naked flames.**
5. **Don't use mobile phones or other ignition sources.**
6. **Assist our representatives and other emergency services such as the police, ambulance, and fire service as requested.**

Additional reference material

- SGN guidance for Safe Working in the Vicinity of Pipelines & Associated Installations operating >7barg. Applicable for HP only.
- HS(G)47 **Avoiding Danger from Underground Services** available from hse.gov.uk
- NJUG **Utilities Guidance on Positioning and Colour Coding of Apparatus** available from njug.org.uk





Making an enquiry for gas mains or services maps

Please visit our **Dig safely** pages on sgn.co.uk for plant protection information and links to our online mapping system and other associated information and guidance.

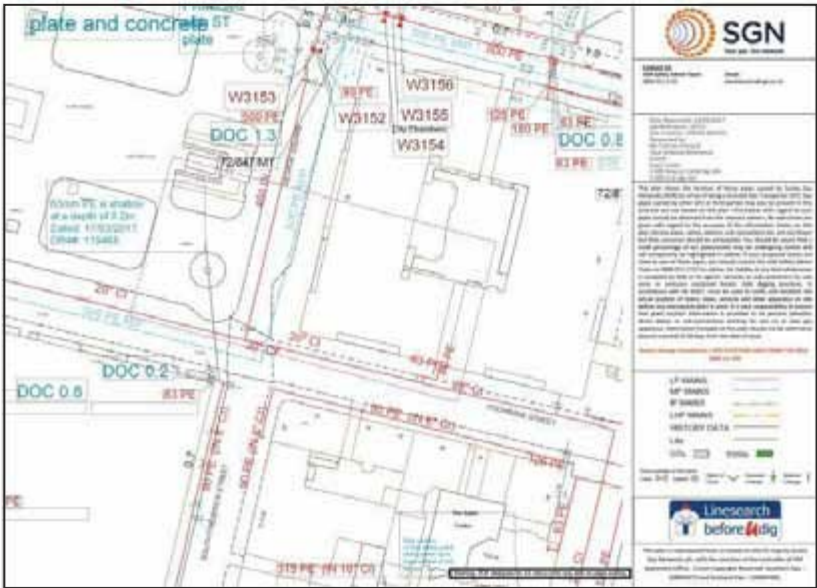
Our simple and easy to use online mapping system is available 24/7, 365 days a year.

You'll need to register/log in and provide a few details about your site location and the work you'll be carrying out. We'll respond immediately by email.

What you're likely to be sent

You'll be sent an email with a map. This will be an extract from our gas mains record, showing your site and any of our gas pipes as well as relevant safety information.

We always send out safety information, however we may forward your enquiry on to a local plant protection officer or a pipelines engineer to make direct contact with you depending on the work location.



Example of a gas map

Note: Service pipes are not shown on our maps

When working near our gas mains and services

Safe system of work

To satisfy ourselves that work in the vicinity of our gas mains is being carried out safely, we may ask for a copy of your risk assessment and/or method statement paperwork.

Where work falls under the Construction (Design and Management) Regulations 2015 reference to our gas mains and services **MUST** be made within your site Health and Safety file.

Financial

Every reasonable precaution **MUST** be taken to avoid personal injury or damage to our gas network at all times.

If we incur any costs to repair direct or consequential damage or divert any gas main or service, you'll be recharged in full.

HSE

Any damage to our gas mains or services will be subject to legislative reporting responsibilities to the Health and Safety Executive under Reporting of Injuries, Diseases & Dangerous Occurrences Regulations 2013, Gas Safety Management Regulations 1996, and the Pipelines Safety Regulations 1996.

Minimum safe working distances

Depending on the activity being undertaken and the gas mains or services you are working within the vicinity of, there are different safe distances that **MUST** be adhered to. SGN plant protection officers or pipeline engineers will inform you of these if required.

Surface boxes and manholes

Do not bury or move our surface boxes. Free access **MUST** be maintained during and after your work. No manhole cover or other structure can be built over, around or under a gas main, and no work is to be carried out that results in a reduction or increase in cover or protection without prior written agreement.

Deep excavations

Adequate protection, approved by us, **MUST** be applied for any deep excavations in the vicinity of our gas mains and services that may affect its security and integrity. Ground movement around gas mains **MUST** be prevented. We **MUST** be contacted if a sewer trench or any other water authority is to be constructed at greater than 1.5 metres depth near a buried gas main or service pipe. You **MUST** give us detailed drawings showing the line and width of the proposed sewer or other trench, together with the soil group classification of the area concerned.



Crossing our mains or services

The placing of heavy construction plant, equipment, materials or the passage of heavy vehicles over our gas mains is prohibited unless specifically agreed protective measures (ie the construction of reinforced crossing points) have been carried out. This is particularly important where reductions in side support or ground cover are planned. You **MUST NOT** carry out any work in servitudes/easements without our prior written consent.

Exposed plant

Where excavations in the vicinity of our gas mains affect its support, the plant **MUST** be adequately supported and protected in consultation with us and to our satisfaction. It **MUST** be protected from impact, restraints and thrust blocks, and supports **MUST NOT** be removed without our agreement.

Hot work

One of our representatives should be present when welding or other hot work involving naked flames is being carried out near our gas mains, as there's potential for heat damage to plastic pipeline/coatings.

Backfilling

Concrete backfill should not be placed closer than 300mm to our mains. No concrete or hard material should be placed under or adjacent to any of our gas mains. Shuttering **MUST** be constructed to maintain the stated clearances and prevent fresh concrete encasing our mains or services. Material used for backfill around our gas mains **MUST** conform to the following:

- If sand, it **MUST** be well-graded in accordance with BS EN 12620:2002.
- It **MUST NOT** contain any sharp particles (stones, bricks, lumps or corrosive materials).
- Foamed concrete **MUST NOT** be used.
- It **MUST** be laid to a minimum depth of 250mm above the crown of the gas main.

Note: Power ramming **MUST NOT** take place until a 300mm hand rammed layer has been completed over the crown of the main.

Access





Free access to our sites, mains and services, including temporary structures and spoil heaps **MUST** be available at all times.





Mechanical excavation

Mechanical excavators (including breaker attachments) **MUST NOT** be used within the following distances from the confirmed location of our gas mains and services shown on our gas maps without prior agreement:

Type of mains and services	Gas map identification	Hand excavation required inside	Pipe pressure indication shown on map
Low Pressure (LP)	0 – 75mbar	0.5 metres	
Medium Pressure (MP)	75mbar to 2 bar	0.5 metres	
Intermediate Pressure (IP)	2 – 7 bar	3.0 metres	
High Pressure (HP)	Above 7 bar	You must seek approval from us prior to any work	

Major accident hazard pipelines

High pressure pipeline

No work is to take place near an HP pipeline until it is agreed with us. After agreement and before any work does take place, the location of our pipeline **MUST** be marked up and its position confirmed by digging trial holes with our personnel in attendance.



Pipeline markers

High pressure

We will be involved in any work taking place near high pressure pipelines. We will provide you with additional information that you **MUST** familiarise yourself with before carrying out any work.

The default method of excavating near high pressure gas pipelines MUST always be by hand.



Wind turbines

The UK Onshore Pipelines Operations Association (UKOPA) has identified the appropriate exclusion zone (distance from the base of the wind turbine mast to the edge of the pipeline) as 1.5 times the turbine height. Contact MUST be made with us during the planning stages of a wind turbine or wind farm.



Tree planting

If trees or shrubs are to be planted in the vicinity of our gas mains and services, the selection of tree or shrub type and how it's planted **MUST** be considered carefully. This is to avoid root damage to buried mains or services, and to ensure our subsequent excavations for main repair and maintenance won't damage the trees or shrubs.

Written approval from us **MUST** be obtained before any tree planting is carried out on a servitude/easement. Any approval we grant to plant trees

The following trees and those of similar size (deciduous or evergreen) **MUST NOT** be planted within 6m of the centre line of the main: ash, beech, birch, most conifers, elm, maple, lime, horse chestnut, oak, and sycamore. Apple and pear trees are also included in this category.

Dwarf apple stocks may be planted up to 3m of the centre line of the main.



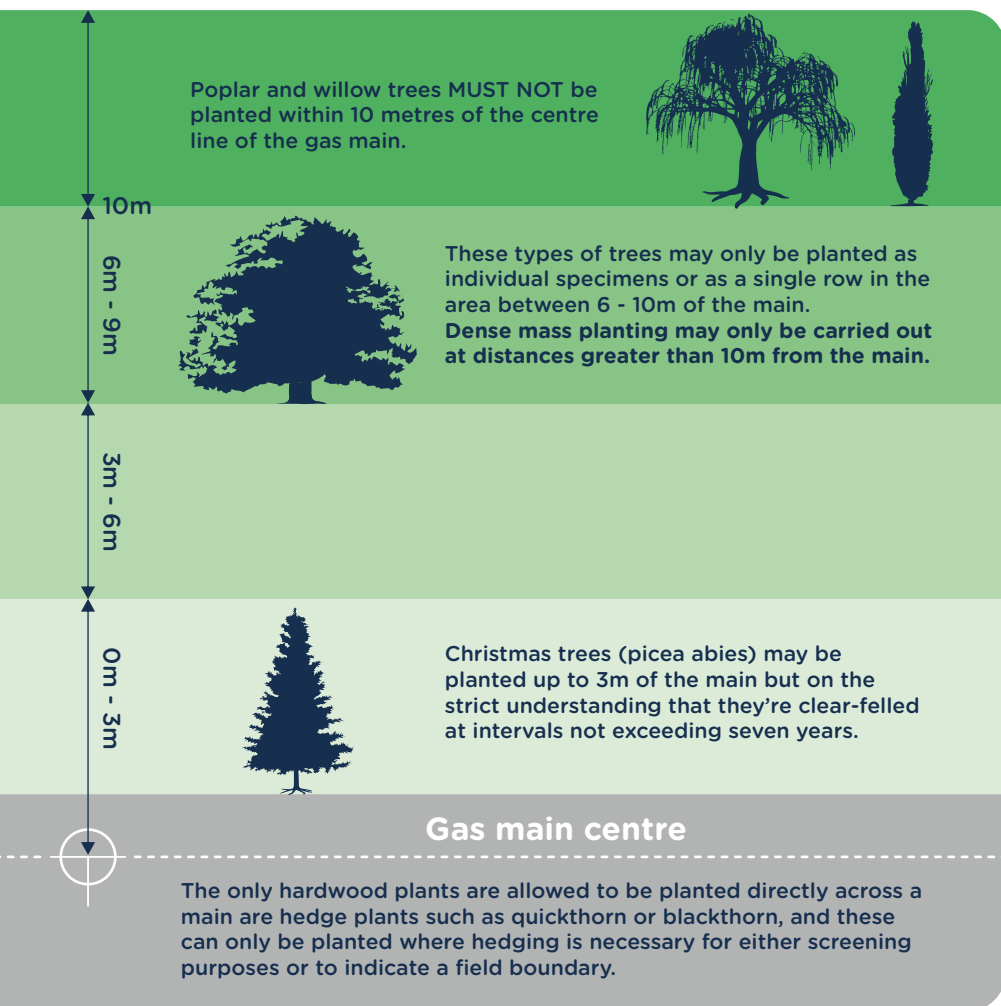
In cases where screening is required, the following are shallow rooting and may be planted close to the gas mains and services: blackthorn, broom, cotoneaster, elder, hazel, laurel, quickthorn, privet, snowberry and most ornamental shrubs.

Gas main centre

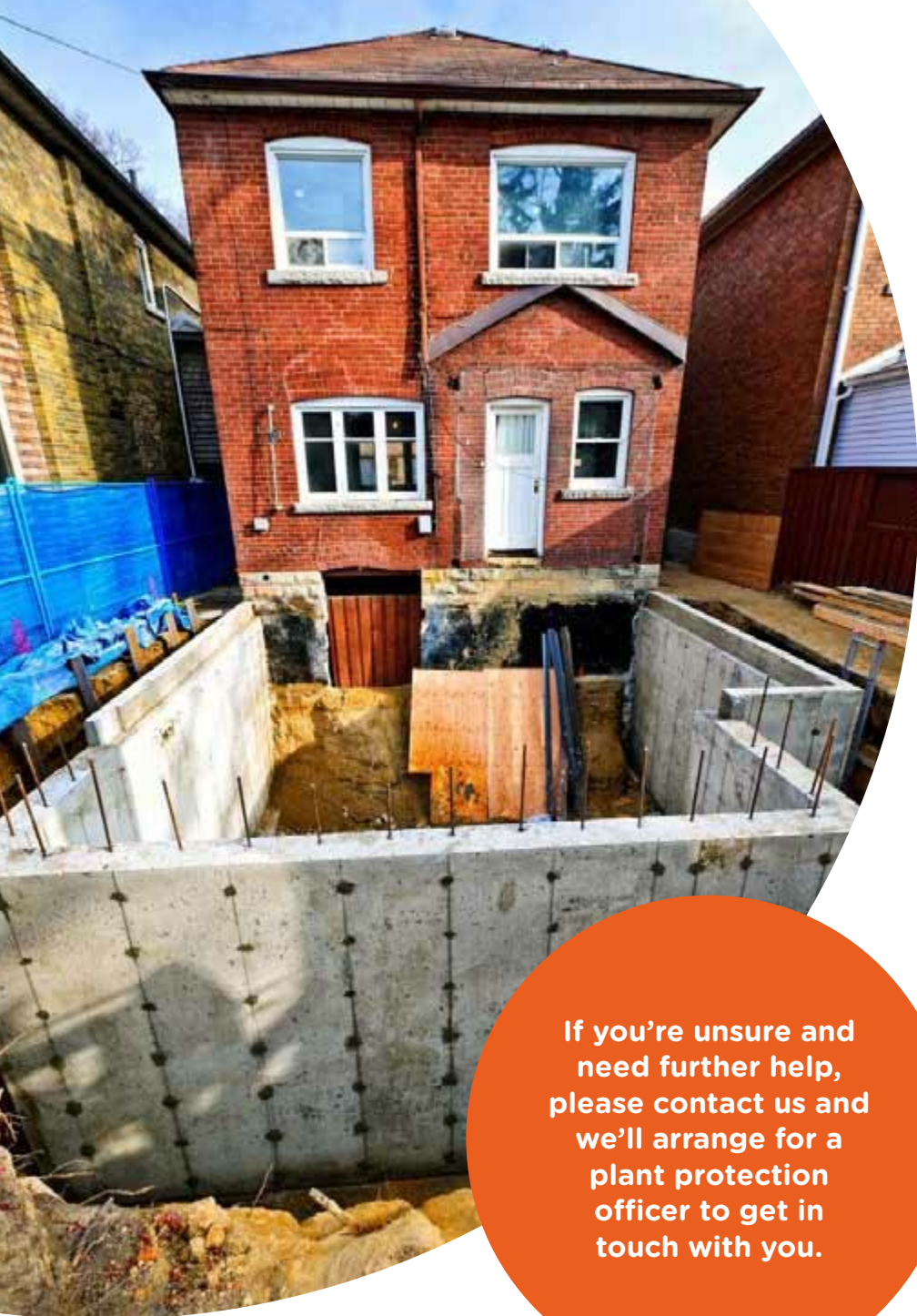
Raspberries, gooseberries and blackcurrants may be planted on the gas main, but a four metre strip, centred on the main, **MUST** be left clear at all times.

on a servitude/easement will be subject to us retaining the right to remove any tree, which in our opinion may become a danger to our mains in the future.

The written consent to plant trees will state what area may be planted and also the type of tree. The diagram details the specific species and the distances they **MUST** be planted from gas mains or services. You **MUST** contact us for further information.



Note: For further guidance, please refer to NJUG 10.

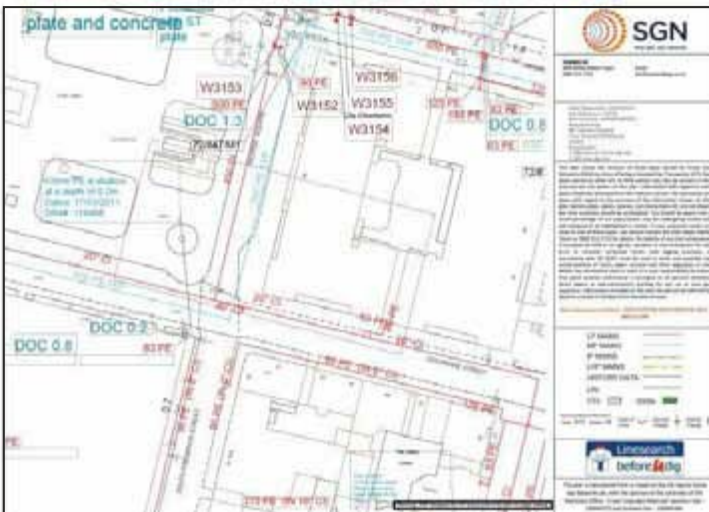


If you're unsure and need further help, please contact us and we'll arrange for a plant protection officer to get in touch with you.

Gas services/work in gardens

If you're going to be carrying out work around your home, or a third party is carrying out work on your behalf, we may send you a site map of our gas mains and services but your own gas service won't be marked.

The simplest way to understand the location of your gas service is to know where it enters your house.



< Your gas service pipe usually takes the shortest route to the gas main, as shown on the sample network map/drawing.



We provide a free plant location enquiry service and we're always happy to help.


























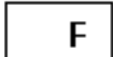














Visit our **Dig safely** pages on **sgn.co.uk**



0800 912 1722 *

*All calls are recorded and may be monitored

Map Symbols

						
VALVE OPEN	VALVE CLOSED	GOVERNOR	END CLOSURE	SYPHON	REDUCER	TEE
						
TEST POINT	CATHODIC PROTECTION	GENERAL REFERENCE	FLOW MEASURE	DIP POINT	MONO ETHYLENE GLYCOL	OILING POINT
						
FLOW STOP	PRESSURE MEASUREMENT	STAND PIPE	OFFICIAL MINISTRY RECORD	PURGE POINT	GAS CONDITIONER	DRAIN POINT
					LP MAINS	
SKETCH BUBBLE	DEPTH OF COVER	METER	MATERIAL CHANGE		MP MAINS	
					IP MAINS	
					LHP MAINS	
					HISTORY DATA	
					SSSI	 GTs
PIG TRAP	CROSSOVER CONNECTION	CHANGE OF DIAMETER	PIPE JOINT		CONTACT ZONE	 LTS

Safety Advice - Valves



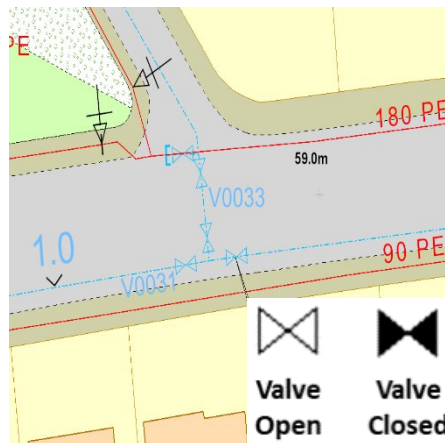
Guidance when undertaking work near gas valves in our network areas

SGN manages the network that distributes gas to 5.8 million homes and businesses across Scotland and the south of England.

Due to a manufacturing issue, we are currently replacing or upgrading certain valve types that are at risk of bolt failure. In extreme cases, this can lead to gas escapes. This is a safety hazard and we have produced this guide to ensure you undertake adequate safety precautions when working near gas valves.

Identifying gas valves

The images below are an illustration of typical gas valves. Please note, valves come in various colours, shapes and sizes, and you may come across a valve that looks different to those found in the images.



What should you do?

When planning to work in our network areas, please observe the following points:

1. You must contact us before starting any work activity within **3.0m** of a gas valve identified on our maps.
2. If an unexpected gas valve is exposed you must immediately stop excavation works and report this to us.
3. To protect yourself against the risks associated with exposing a valve, we advise that you contact us when in doubt.

Contact details

If you require further information or need assistance please contact us:

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

Valve enquiries will be forwarded to a local engineer who will provide further safety information.

Debbie Miller

From: NRSWA <nrswa.nrswa@sky.uk>
Sent: 02 October 2018 15:18
To: Debbie Miller
Subject: URGENT ASAP - Ref: 22630DM - Site : Land near Yarnton, Oxfordshire, OX5 1QD



Thank you for your enquiry.

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

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

Regards



From: Debbie Miller [mailto:DMiller@groundwise.com]
Sent: 02 October 2018 09:30
To: plantenquiries@energetics-uk.com; osm.enquiries@atkinglobal.com; plantenquiries@instalcom.co.uk; osp-team@uk.verizonbusiness.com; interoute.enquiries@plancast.co.uk; telenttelia.plantenquiries@telent.com; plantenquiries@psgservices.co.uk; plantenquiries@catelecomuk.com; NRSWA <nrswa.nrswa@sky.uk>; OPBuriedServicesEnquiries@networkrail.co.uk; plantenquiries@trafficmaster.co.uk; mbnl.plant.enquiries@turntown.com; assetrecords@utilityassets.co.uk; kpn.plantenquiries@instalcom.co.uk
Subject: [EXTERNAL] URGENT ASAP - Ref: 22630DM - Site : Land near Yarnton, Oxfordshire, OX5 1QD

Ref: 22630DM
Site : Land near Yarnton, Oxfordshire, OX5 1QD
Grid reference: 446998,212662
Requests: URGENT ASAP

For your reference, we have provided a site plan. Please use both the grid reference/postcode & site plan when responding to our requests.

We are doing research on the above site for a client and would be grateful if you could confirm whether the above operators have any cabling or apparatus in the immediate vicinity. Should there be anything detected in the vicinity plus 50 meters around the site, I would appreciate a plan showing the location. The reason we need the information is so our client can avoid digging through your cables or can investigate the potential for connecting with your network.

I enclose location plans of the site for your convenience and look forward to hearing from you. We shall of course be providing a copy of your response to our client as part of a wider report on the site including reports from other utility companies or providers.

Should you have any problems in identifying the location of the sites or should you require further clarification of the details requested, please do not hesitate to contact me.

I look forward to receiving details from you and thank you in advance for your assistance in this matter.

Kind regards,

Debbie Miller

Production Researcher
Groundwise Searches Ltd



dmiller@groundwise.com | 01702 615566 | www.groundwise.com
Suite 8 Chichester House, 45 Chichester Road, Southend-on-Sea, Essex SS1 2JU

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Company Registration Number 4130795
VAT number 769 0642 02

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Groundwise Ref: 22630DM

Our Ref: Ref shown on map

Date of issue: shown on map

email: nnhc@openreach.co.uk

Dear Customer,

NR & SW ACT 1991 – PROPOSED WORKS AT: Land near Yarnton

Prior to commencement of work: For free onsite guidance and accurate up to date location of BT Apparatus please contact our Plant Protection Service by the following methods:-

Email the Click Before You Dig Team CBYD@openreach.co.uk

Visit the Click Before You Dig Website www.openreach.co.uk/cbyd

Thank you for your request of 03/10/2018 describing the above proposals.

Enclosed are copies of our drawings marked up to show the approximate locations of BT apparatus in the immediate vicinity of your works. It is intended for general guidance only. No guarantee is given of its accuracy.

The drawings are valid for 90 days from the date of issue and should not be relied upon after this time period has expired.

When planning excavation work or other works near to BT apparatus, please be mindful our apparatus may exist at various depths and may deviate from the marked route.

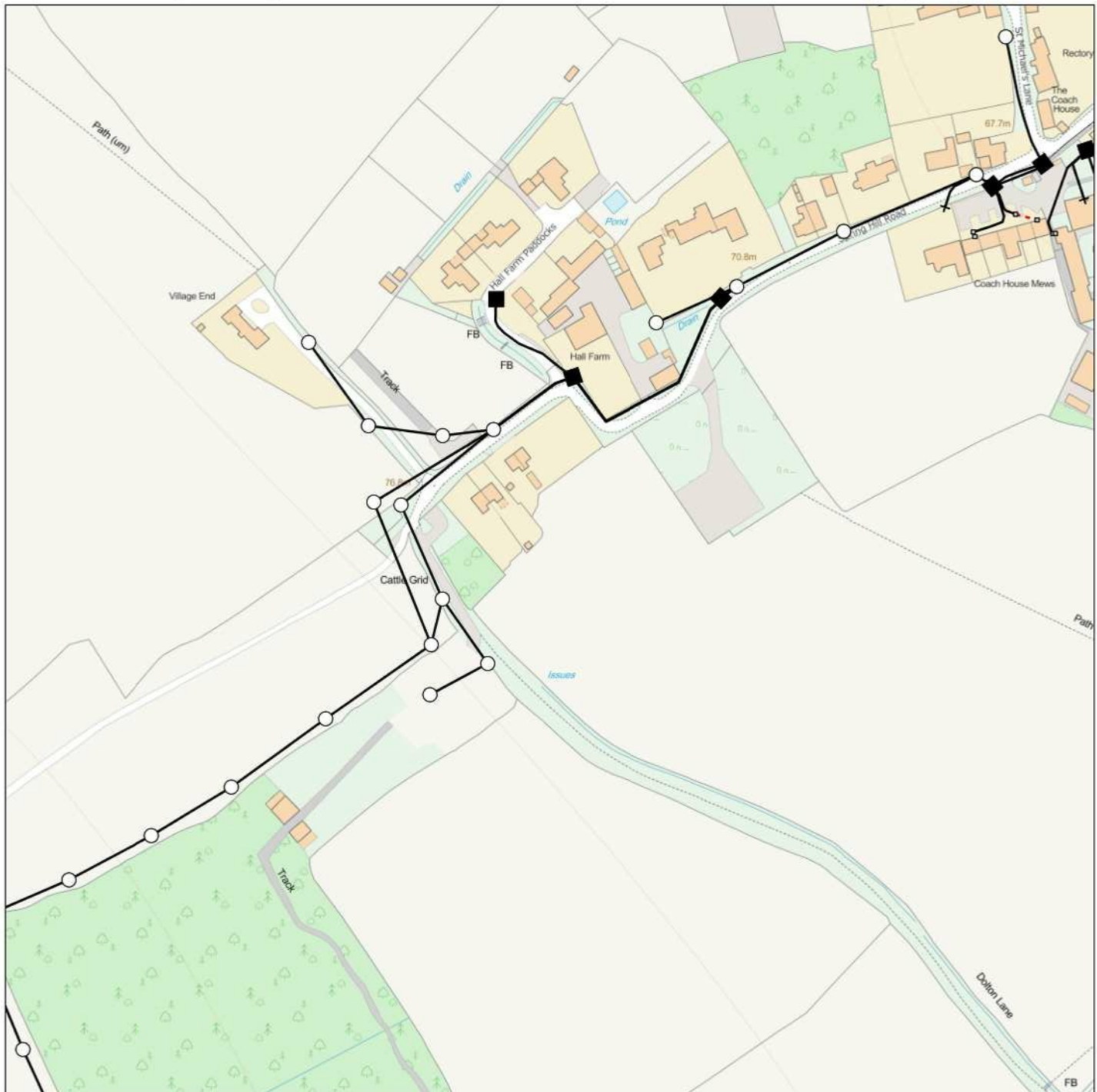
To avoid damage it is recommended that mechanical excavators or borers are not used within 600mm of BT apparatus. If scaffolding is erected, please ensure that our equipment is not enclosed, blocked, covered or otherwise obstructed by the scaffolding.

In the event of BT apparatus being in the area of your works we recommend that your plant/vehicle crossing is either resited, or apply for a budget estimate by submitting detailed plans to our Network Relocation Team at <https://www.ournetwork.openreach.co.uk/altering-our-network.aspx>

Yours faithfully,

Julie Cullum
NNHC & MBE Manager

Maps by email Plant Information Reply



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email cbyd@openreach.co.uk

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

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KEY TO BT SYMBOLS

	Planned	Live	State	Split Coupling	Built	
PCP			Duct Tee		Planned	
Pole			Building		Inferred	
Box			Kiosk		Duct	
Manhole			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.			
Cabinet						

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

BT Ref : MSP11556V

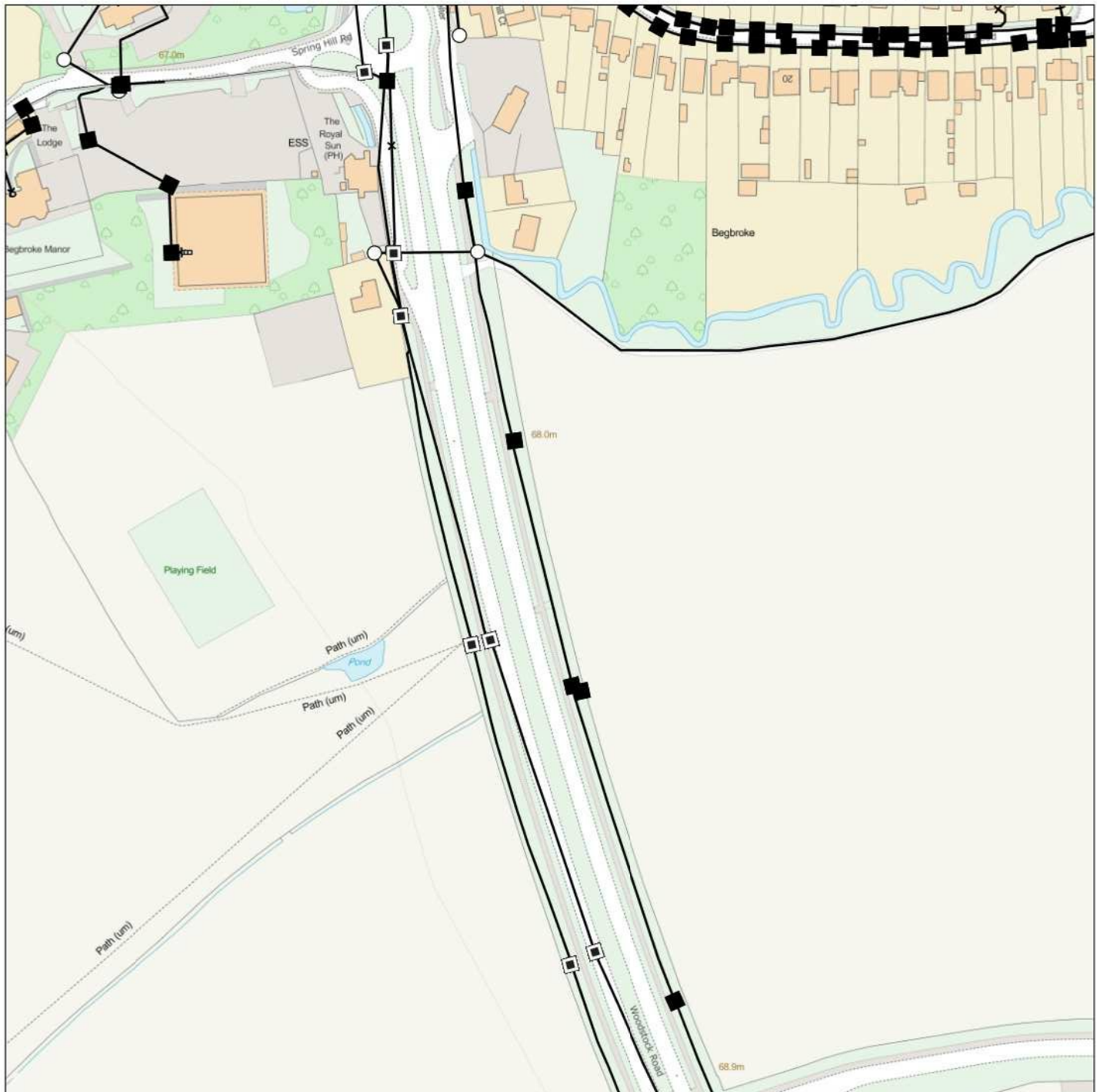
Map Reference : (centre) SP4662713663

Easting/Northing : (centre) 446627,213663

Issued : 03/10/2018 11:55:16

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Maps by email Plant Information Reply



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KEY TO BT SYMBOLS

	Planned	Live	Change Of State	+	Hatchings	
PCP			Split Coupling		Built	
Pole			Duct Tee		Planned	
Box			Building		Inferred	
Manhole			Kiosk		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 : EIE115685

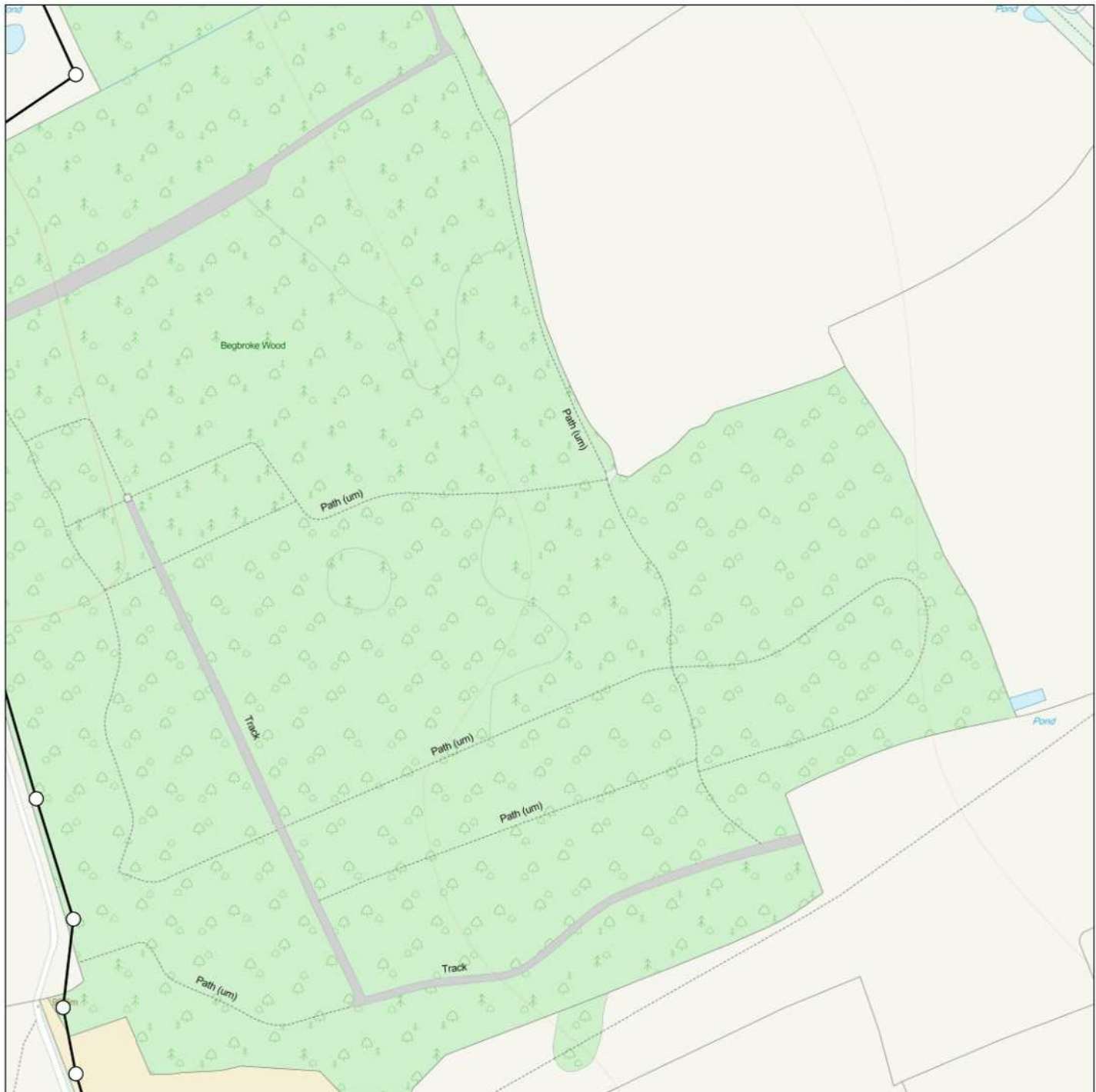
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Easting/Northing : (centre) 447127,213663

Issued : 03/10/2018 11:56:38

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KEY TO BT SYMBOLS

	Planned	Live	Change Of State	+	Hatchings	
PCP			Split Coupling		Built	
Pole			Duct Tee		Planned	
Box			Building		Inferred	
Manhole			Kiosk		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 : RJJ11582W

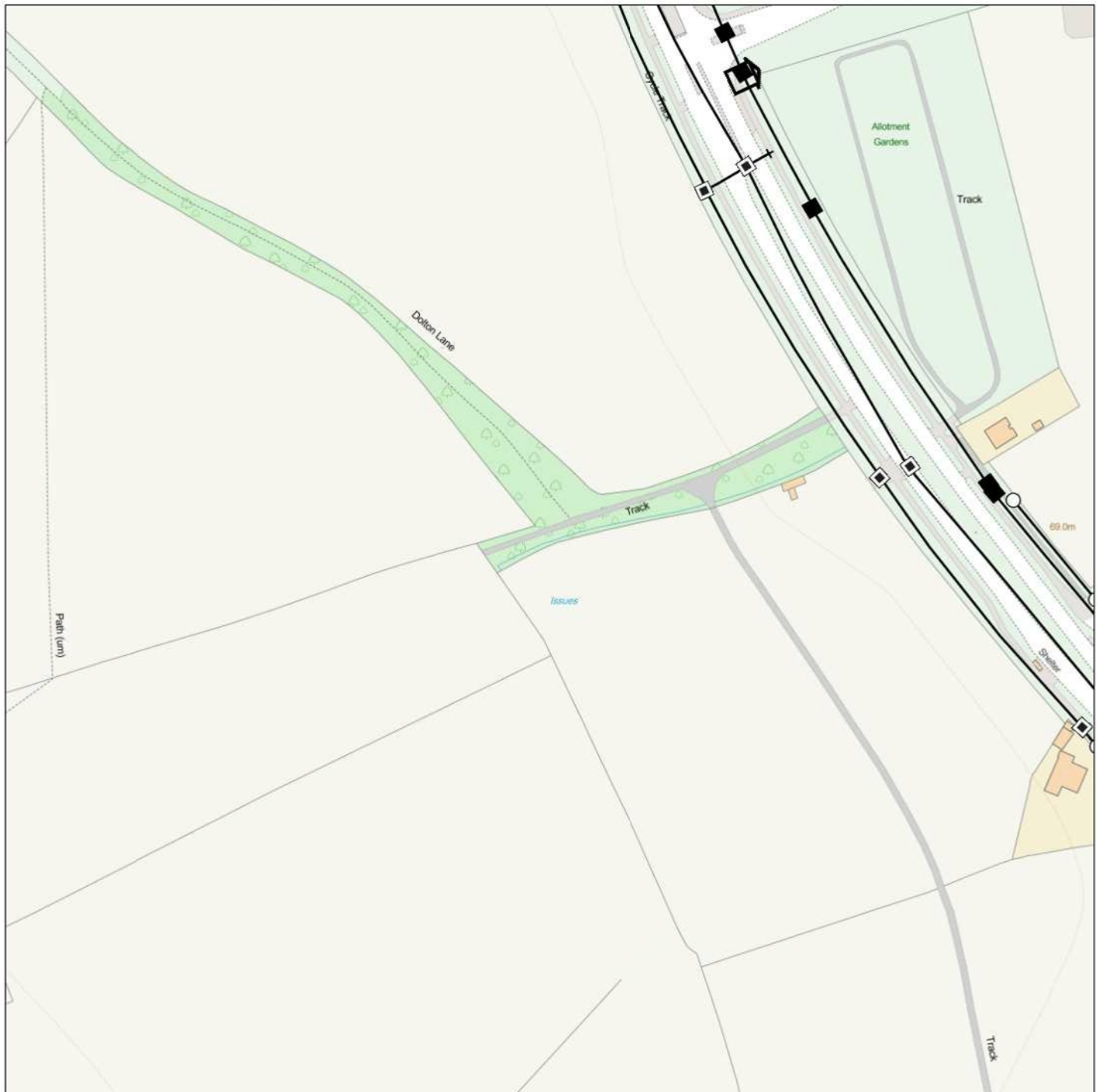
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Easting/Northing : (centre) 446627,213163

Issued : 03/10/2018 11:58:29

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KEY TO BT SYMBOLS

	Planned	Live	State	Split Coupling	Built	Matchings
PCP			Duct Tee		Planned	
Pole			Building		Inferred	
Box			Kiosk		Duct	
Manhole			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded.			
Cabinet			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 : MPU115621

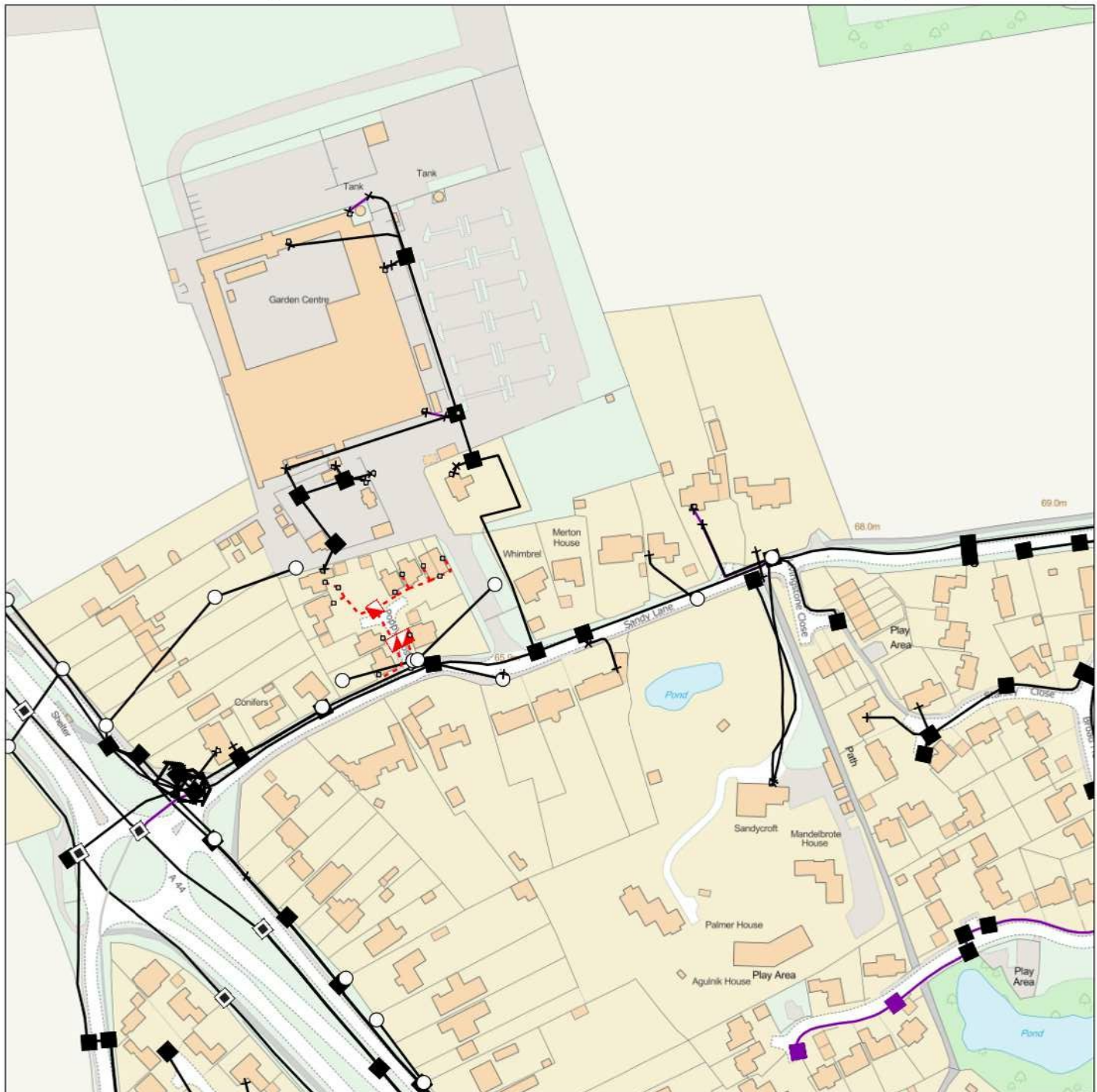
Map Reference : (centre) SP4712713163

Easting/Northing : (centre) 447127,213163

Issued : 03/10/2018 11:56:55

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KEY TO BT SYMBOLS

	Planned	Live	Change Of State	+	Hatchings	⊗
PCP			Split Coupling	×	Built	
Pole			Duct Tee	▲	Planned	
Box			Building		Inferred	
Manhole			Kiosk		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 : NSP12038X

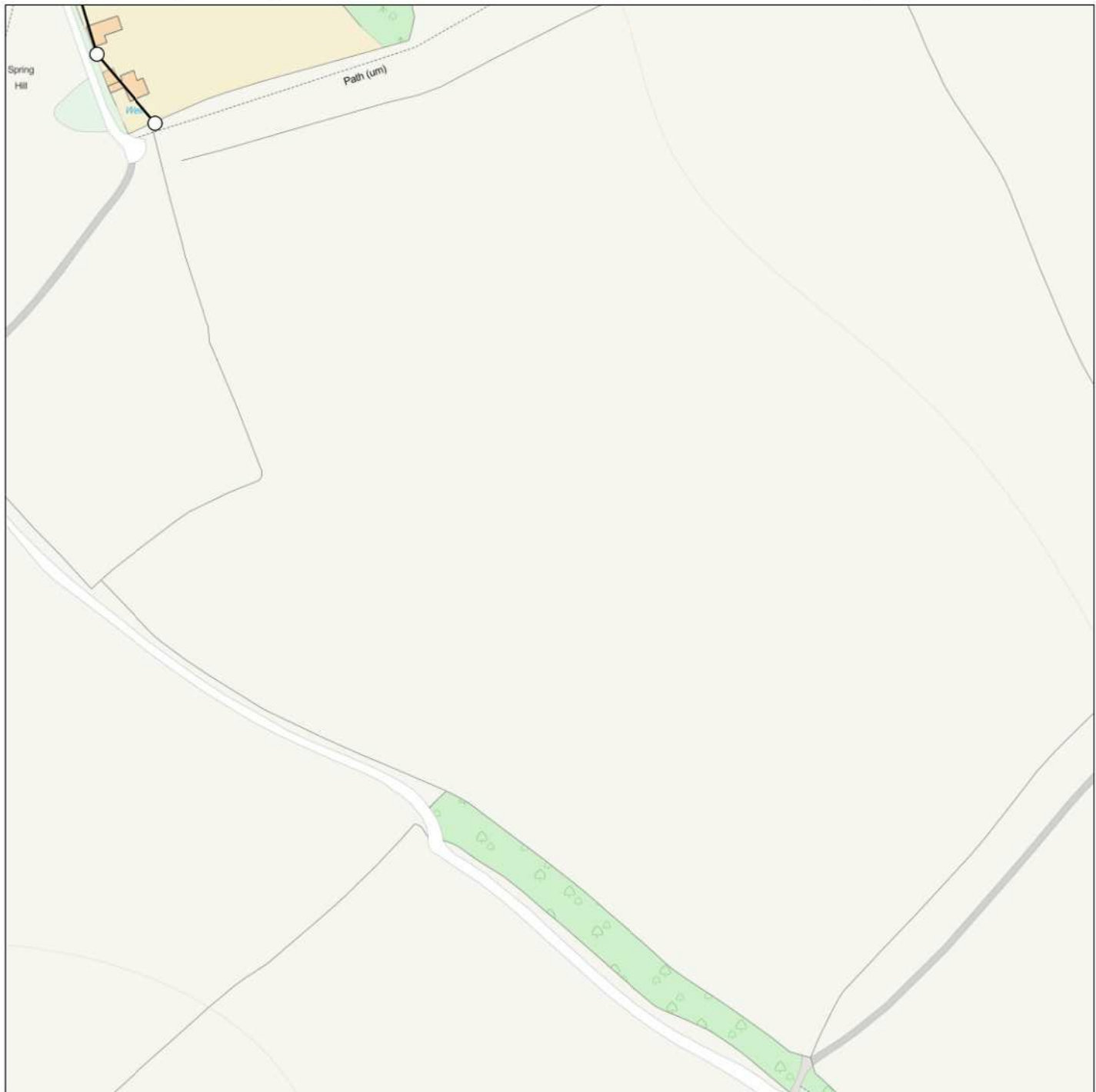
Map Reference : (centre) SP4762713163

Easting/Northing : (centre) 447627,213163

Issued : 03/10/2018 12:04:00

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KEY TO BT SYMBOLS

	Planned	Live	Change Of State	+	Hatchings	
PCP			Split Coupling		Built	
Pole			Duct Tee		Planned	
Box			Building		Inferred	
Manhole			Kiosk		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 : ZVS12001L

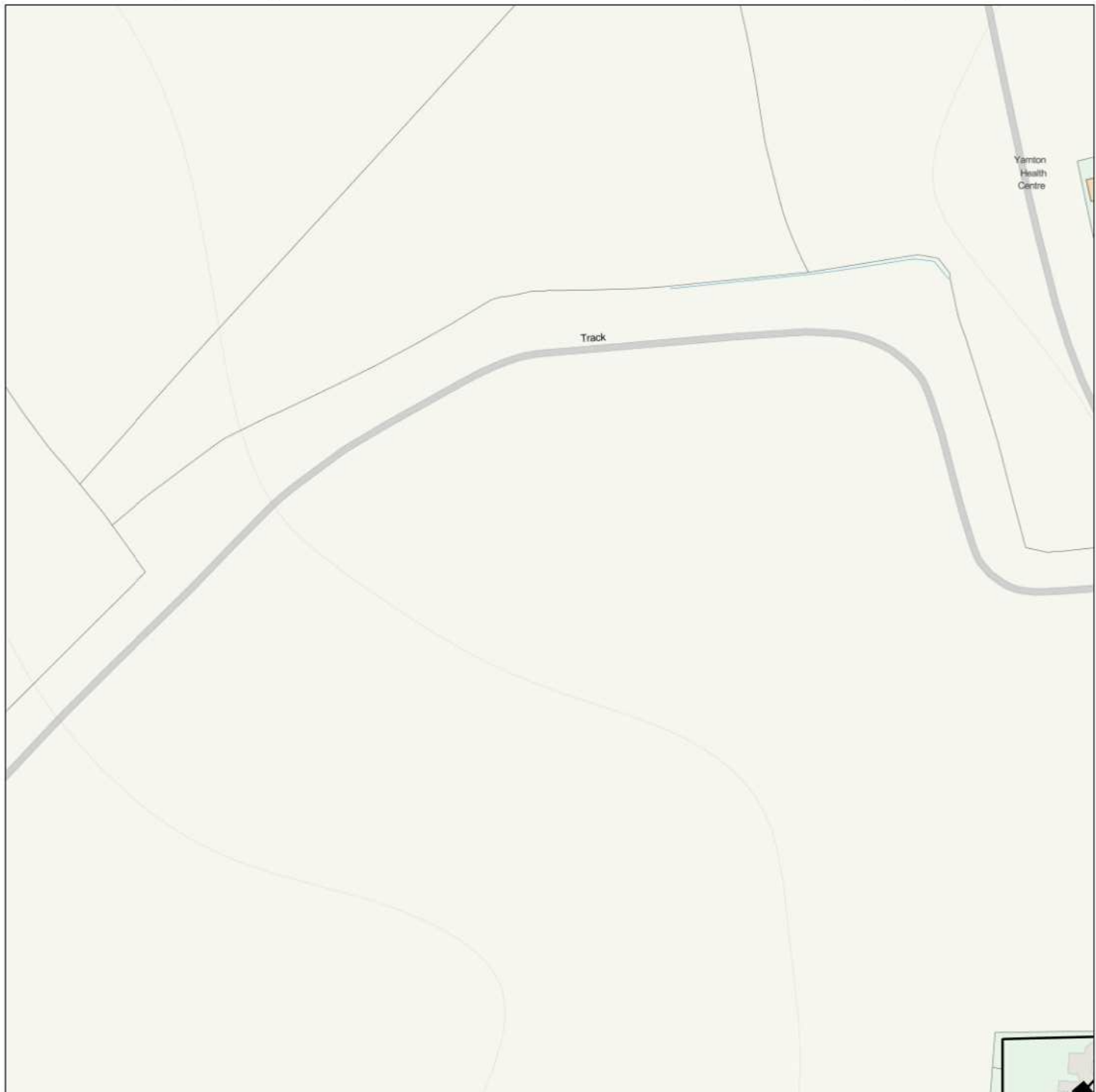
Map Reference : (centre) SP4662712663

Easting/Northing : (centre) 446627,212663

Issued : 03/10/2018 12:00:17

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KEY TO BT SYMBOLS

	Planned	Live	Change Of State	+	Hatchings	
PCP			Split Coupling		Built	
Pole			Duct Tee		Planned	
Box			Building		Inferred	
Manhole			Kiosk		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 : PPB11575V

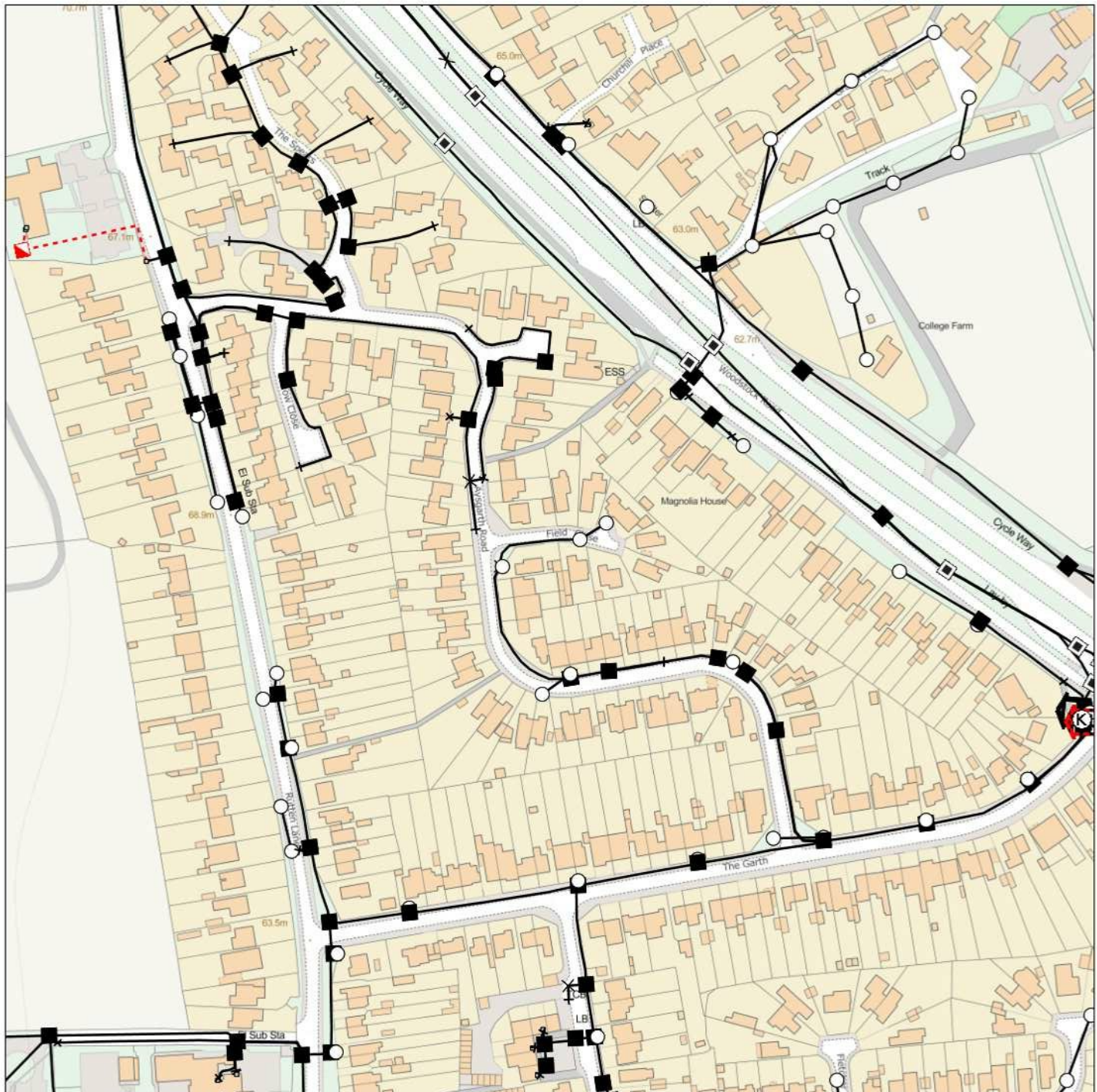
Map Reference : (centre) SP4712712663

Easting/Northing : (centre) 447127,212663

Issued : 03/10/2018 11:57:07

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KEY TO BT SYMBOLS

	Planned	Live	Change Of State	+	Hatchings	
PCP			Split Coupling		Built	
Pole			Duct Tee		Planned	
Box			Building		Inferred	
Manhole			Kiosk		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 : WRY12043M

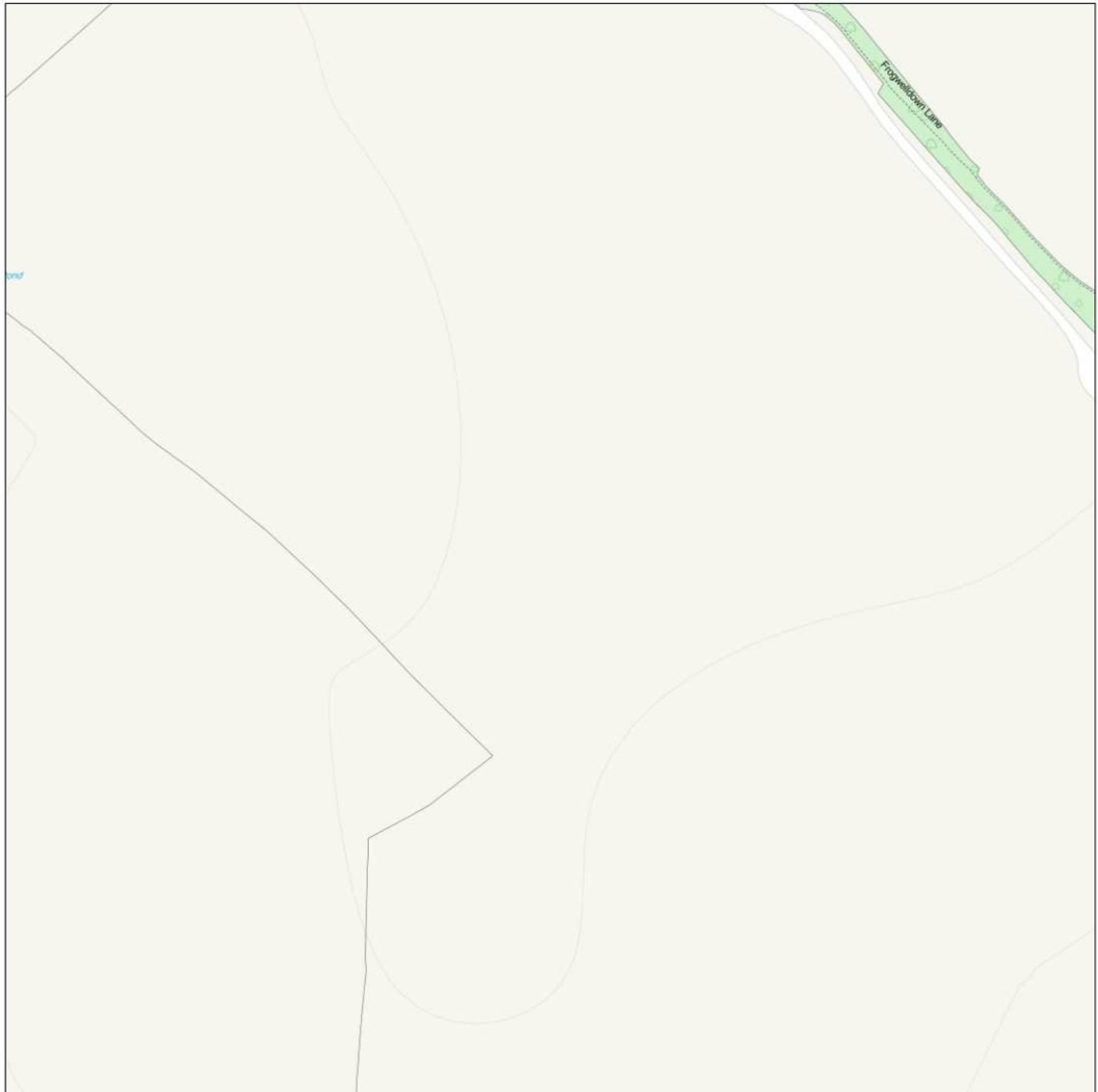
Map Reference : (centre) SP4762712663

Easting/Northing : (centre) 447627,212663

Issued : 03/10/2018 12:04:24

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Maps by email Plant Information Reply



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KEY TO BT SYMBOLS

	Planned	Live	Change Of State	+	Hatchings	
PCP			Split Coupling		Built	
Pole			Duct Tee		Planned	
Box			Building		Inferred	
Manhole			Kiosk		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 : WMO12012T

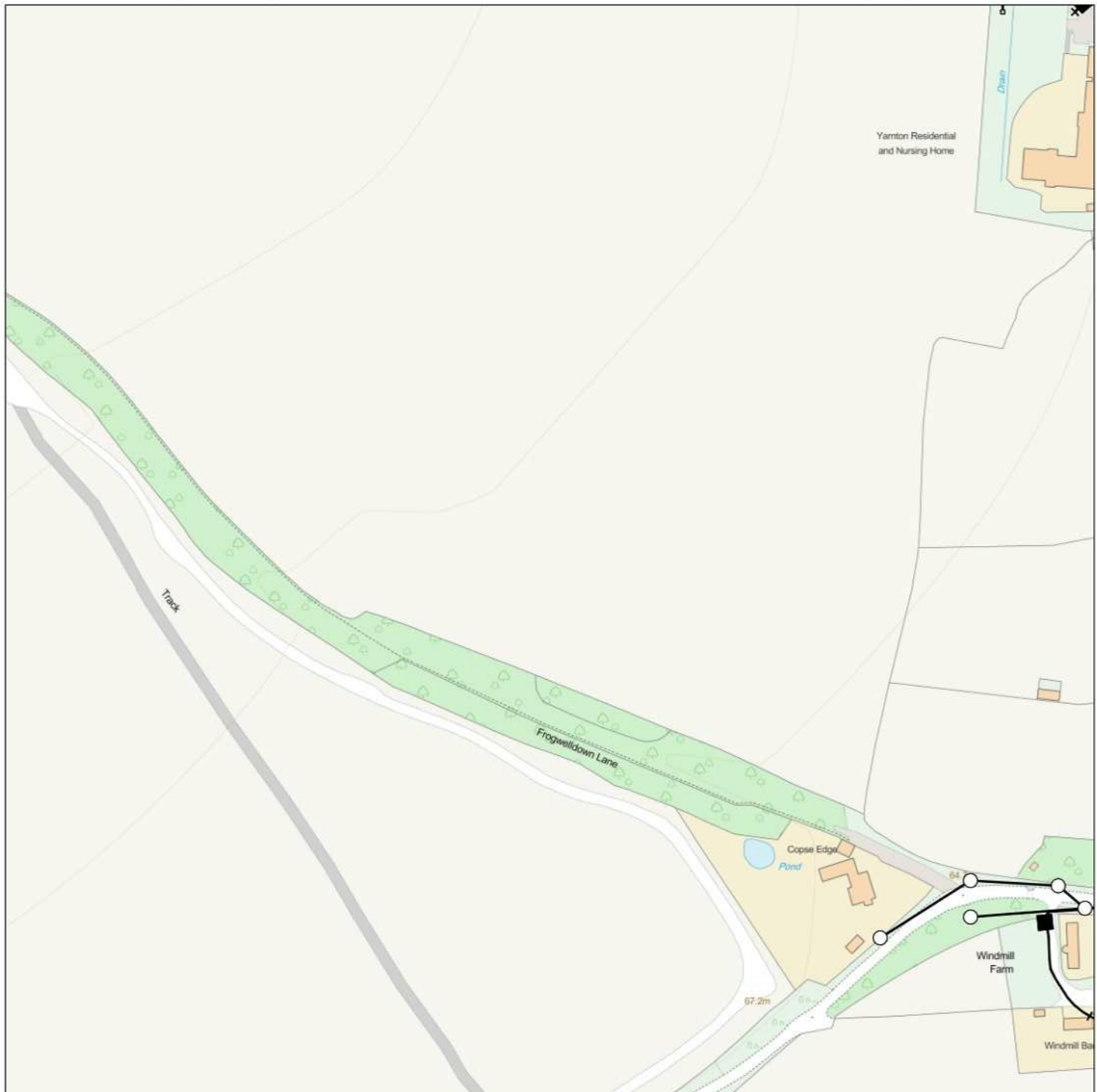
Map Reference : (centre) SP4662712163

Easting/Northing : (centre) 446627,212163

Issued : 03/10/2018 12:01:18

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

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

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KEY TO BT SYMBOLS

	Planned	Live	Change Of State	+	Hatchings	
PCP			Split Coupling		Built	
Pole			Duct Tee		Planned	
Box			Building		Inferred	
Manhole			Kiosk		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 : PFC12072R

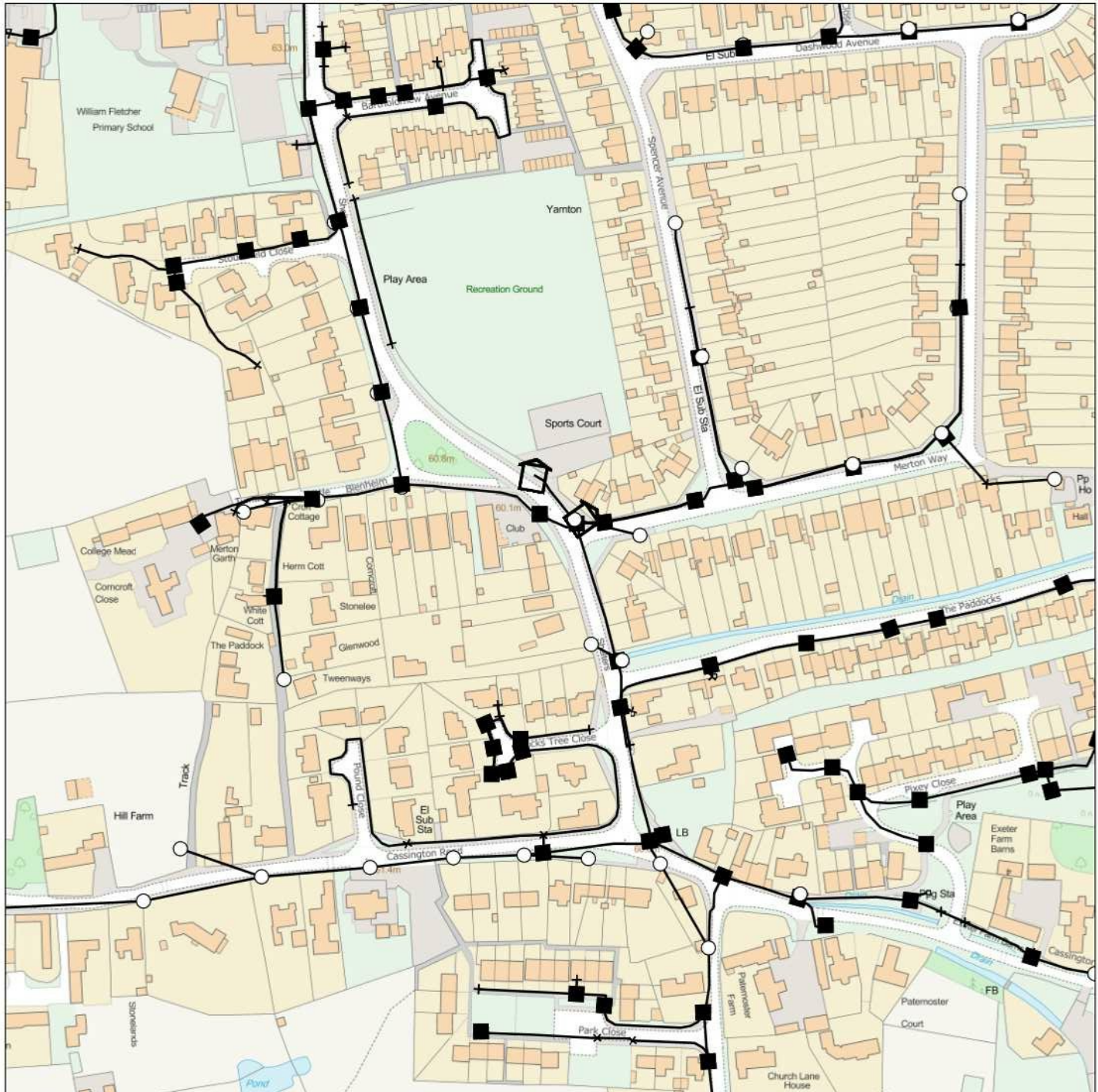
Map Reference : (centre) SP4712712163

Easting/Northing : (centre) 447127,212163

Issued : 03/10/2018 12:08:14

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Maps by email Plant Information Reply



IMPORTANT WARNING

Information regarding the location of BT apparatus is given for your assistance and is intended for general guidance only. No guarantee is given of its accuracy.

It should not be relied upon in the event of excavations or other works being made near to BT apparatus which may exist at various depths and may deviate from the marked route.



openreach

CLICK BEFORE YOU DIG

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

email cbyd@openreach.co.uk

ADVANCE NOTICE REQUIRED

(Office hours: Monday - Friday 08.00 to 17.00)

www.openreach.co.uk/cbyd

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KEY TO BT SYMBOLS

	Planned	Live	Change Of State	+	Hatchings	
PCP			Split Coupling		Built	
Pole			Duct Tee		Planned	
Box			Building		Inferred	
Manhole			Kiosk		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 : PWW12055P

Map Reference : (centre) SP4762712163

Easting/Northing : (centre) 447627,212163

Issued : 03/10/2018 12:05:26

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

Debbie Miller

From: Plantenquiries <plantenquiries@catelecomuk.com>
Sent: 08 October 2018 12:32
To: Debbie Miller
Subject: RE: URGENT ASAP - Ref: 22630DM - Site : Land near Yarnton, Oxfordshire, OX5 1QD

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

Dear Sir/Madam,

Thank you for your enquiry for the above reference.

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

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

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

Kind regards,

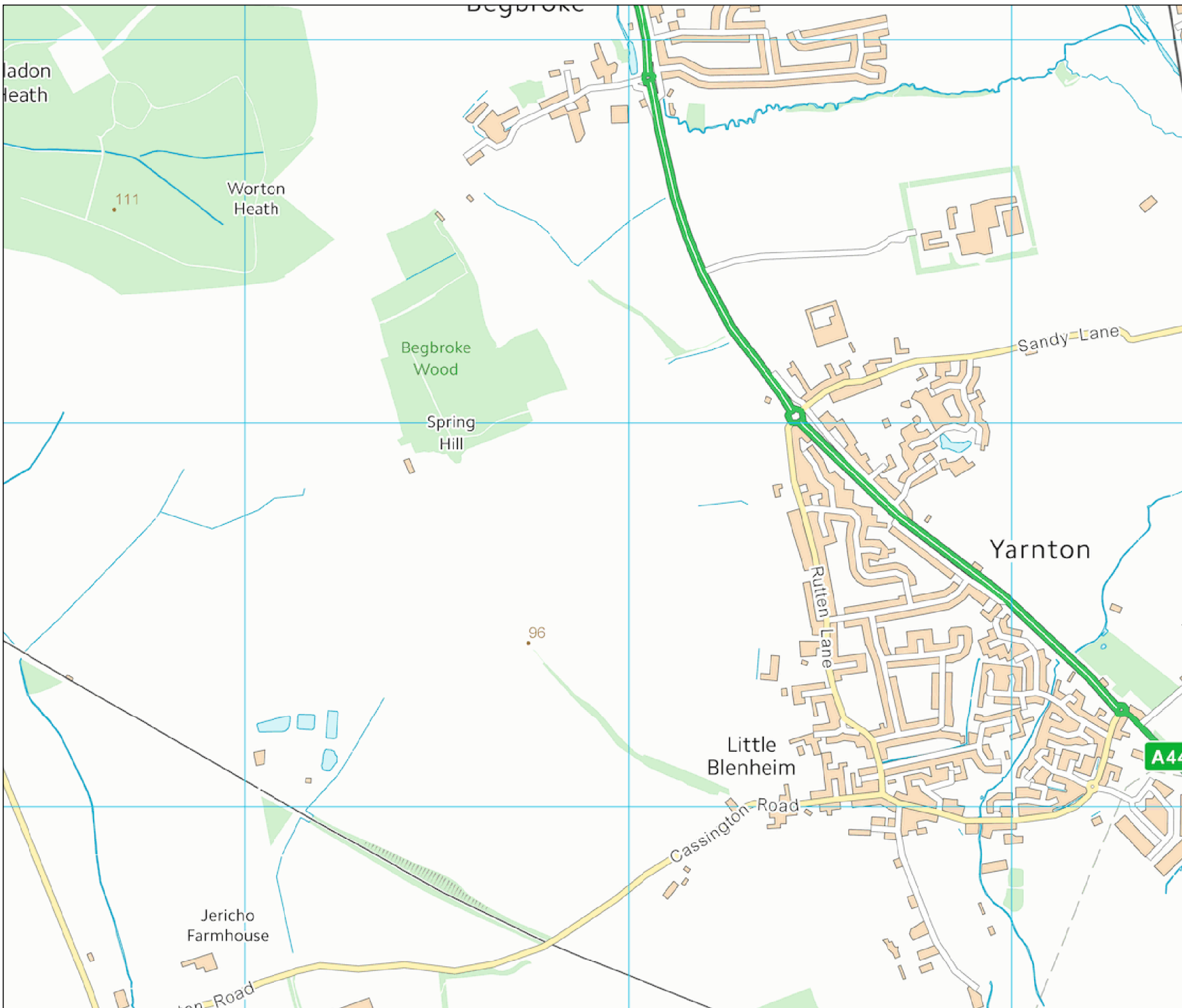
Plant Enquiry Team



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From: Debbie Miller [mailto:DMiller@groundwise.com]
Sent: 02 October 2018 09:30
To: plantenquiries@energetics-uk.com; osm.enquiries@atkinsglobal.com; plantenquiries@instalcom.co.uk; osp-team@uk.verizonbusiness.com; interoute.enquiries@plancast.co.uk; telenttelia.plantenquiries@telent.com; plantenquiries@psgservices.co.uk; Plantenquiries <plantenquiries@catelecomuk.com>; NRSWA@bskyb.com;



LEGEND

- EXISTING PLANT
- EXISTING PLANT

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Select a bitmap

Head Office CityFibre Holdings Ltd 15 Bedford Street, London, WC2E 9HE	Asset Office CityFibre Holdings Ltd, Rutherford House, Birchwood, Warrington, WA3 6ZH
Tel: 0845 293 0774 Web: www.cityfibre.com	Email: asset.team@cityfibre.com

Disclaimer:

Information shown on this plan is for general guidance only. No warranty is made as to its accuracy. This plan must not be solely relied upon in the event of excavation or other works being carried out in the vicinity of Cityfibre plant. No liability of any kind is accepted by Cityfibre, its agents or servants for any error, omission, discrepancy or deviation. This information is valid for the date printed.

Project

Plant Enquiry

Drawing

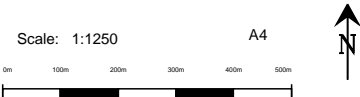
Existing Plant

Drawn by:

smallworld

Date: 03/10/2018

Drawing No.	Revision
CFH_EP_000001	001



Debbie Miller

From: plantenquiries@psgservices.co.uk
Sent: 02 October 2018 09:48
To: Debbie Miller
Subject: URGENT ASAP - Ref: 22630DM - Site : Land near Yarnton, Oxfordshire, OX5 1QD

To Whom It May Concern:

Thank you for your recent enquiry regarding your proposed work at the above location.

euNetworks Fiber UK Limited do not have plant in the vicinity of your proposed works and no strategic additions to our existing network are envisaged in the immediate future.

This information is only valid for a period of 3 months so, if your start date is 3 months or more from the date of this email, please re-apply for updated information at our generic email address: plantenquiries@psgservices.co.uk.

Kind regards

ALL PLANT ENQUIRIES AND DIVERSIONARY REQUESTS SHOULD BE ADDRESSED BY EMAIL TO THE OPERATIONS TEAM AT plantenquiries@psgservices.co.uk , WITH A PLAN AND FULL POSTAL ADDRESS OF YOUR ENQUIRY, THANK YOU



For and on behalf of euNetwork Fiber UK Limited

Thanks

Vivien Hart

T 01772 514453 | **E** plantenquiries@psgservices.co.uk



Telecommunications Survey, Planning, Engineering & GIS Services

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=====



Virus-free. www.avg.com

Debbie Miller

From: Pflanzenquiries <Pflanzenquiries@instalcom.co.uk>
Sent: 02 October 2018 09:39
To: Debbie Miller
Subject: E10-18-0287 RE: URGENT ASAP - Ref: 22630DM - Site : Land near Yarnton, Oxfordshire, OX5 1QD

Dear Sir or Madam,

Thank you for your plant enquiry below.

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

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

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

Regards

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

Office: +44 (0)208 731 4613
Fax: +44 (0)208 731 4601
Email: pflanzenquiries@instalcom.co.uk
Web: <http://www.instalcom.co.uk>



From: Debbie Miller [mailto:DMiller@groundwise.com]

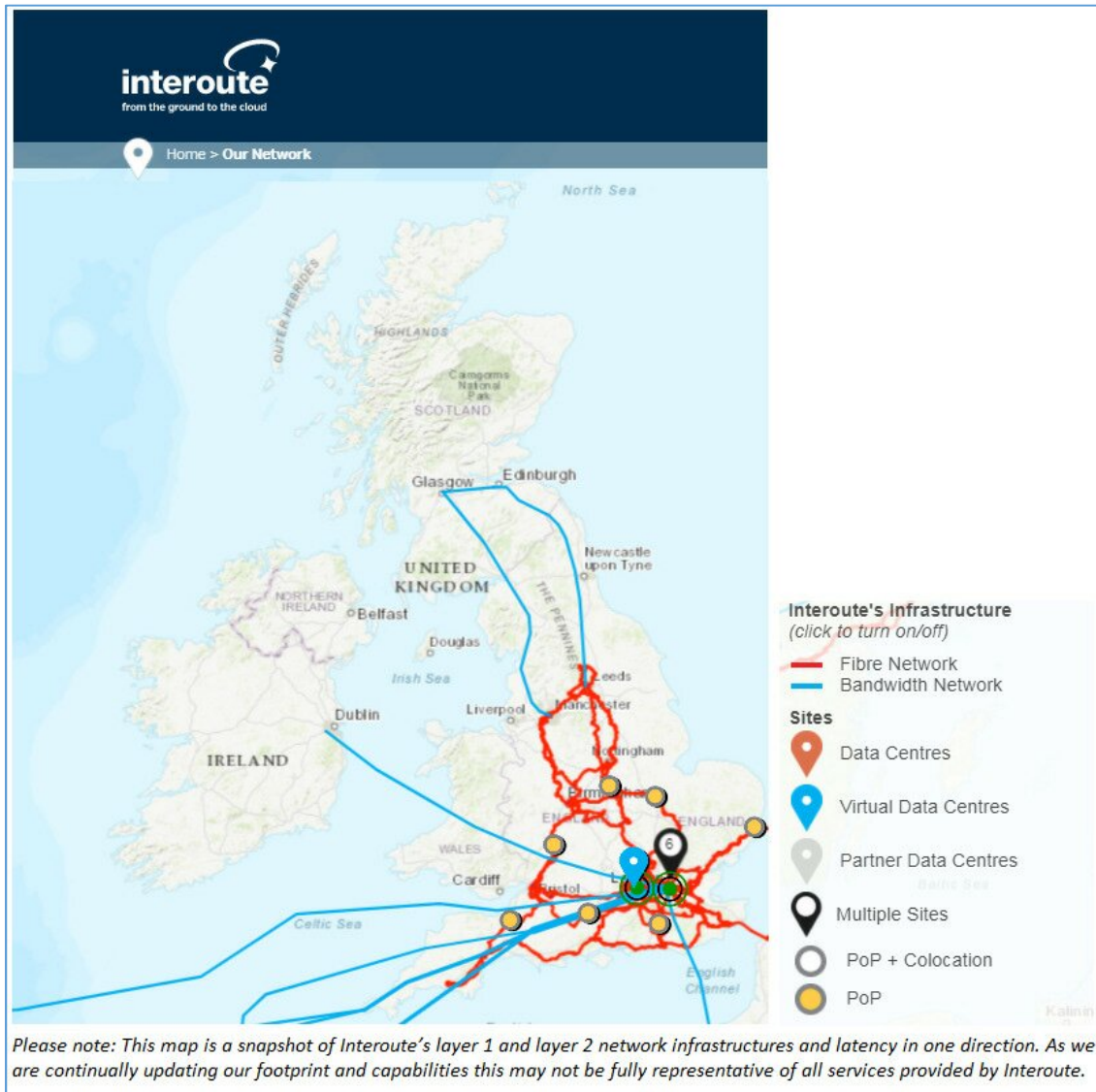
Sent: 02 October 2018 09:30

To: pflanzenquiries@energetics-uk.com; osm.enquiries@atkinsglobal.com; Pflanzenquiries <Pflanzenquiries@instalcom.co.uk>; osp-team@uk.verizonbusiness.com; interoute.enquiries@plancast.co.uk; telenttelia.pflanzenquiries@telent.com; pflanzenquiries@psgservices.co.uk; pflanzenquiries@catelecomuk.com; NRSWA@bskyb.com; OPBuriedServicesEnquiries@networkrail.co.uk; pflanzenquiries@trafficmaster.co.uk; mbnl.plant.enquiries@turntown.com; assetrecords@utilityassets.co.uk; KPN Plant Enquiries

Information taken from the GTT Interoute Vtesse website:

View the GTT Interoute Vtesse Interactive Network Map

<http://www.interoute.com/our-network>



Debbie Miller

From: KPN Plant Enquiries <kpn.plantenquiries@instalcom.co.uk>
Sent: 03 October 2018 09:57
To: Debbie Miller
Subject: RE: K10-18- 0334 URGENT ASAP - Ref: 22630DM - Site : Land near Yarnton, Oxfordshire, OX5 1QD



Dear Sir or Madam,

With reference to your plant enquiry below, we can confirm that KPN do not have any apparatus within the immediate proximity of your proposed works.

If you require any further information, please do not hesitate to contact us.

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

Regards

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

Office: +44 (0)208 731 4613
Fax: +44 (0)208 731 4601
Email: kpn.plantenquiries@instalcom.co.uk
Web: <http://www.instalcom.co.uk>



From: Debbie Miller [mailto:DMiller@groundwise.com]

Sent: 02 October 2018 09:30

To: plantenquiries@energetics-uk.com; osm.enquiries@atkinsglobal.com; Plantenquiries <Plantenquiries@instalcom.co.uk>; osp-team@uk.verizonbusiness.com; interoute.enquiries@plancast.co.uk;

MBNL

Dear Sir/Madam

Many thanks for your email. Turner & Townsend would like to assure you that all plant enquiries we receive are reviewed thoroughly before making a decision on how to progress. Unfortunately, due to the sheer volume of enquiries we receive, we are unable to reply to every individual enquiry. We endeavour to reply to all **relevant** enquiries within a period of 14 working days. **Kindly note that if you do not receive a reply to your enquiry within 14 working days, you are able to assume that your proposal will NOT impact upon one of our sites.**

Kind Regards

MBNL SHQE Team

Turner & Townsend

t: +44 (0) 121 262 3663

<http://www.turnerandtownsend.com>

Turner & Townsend Europe Limited

Registered Office: Low Hall, Calverley Lane, Horsforth, Leeds LS18 4GH, United Kingdom | Registered in England and Wales | Registration No: 3514794"

Turner & Townsend Limited

Project of the Year | Building Awards 2015

Construction Consultant of the Year | Building Awards 2014, 2013

Queen's Award for Enterprise: International Trade 2014

For further information and registration details visit our website <http://www.turnerandtownsend.com>

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Debbie Miller

From: Interoute Enquiries <interoute.enquiries@plancast.co.uk>
Sent: 02 October 2018 10:25
To: Debbie Miller
Subject: RE: URGENT ASAP - Ref: 22630DM - Site : Land near Yarnton, Oxfordshire, OX5 1QD

This response does not include Vtesse or Easynet plant, please continue to use Vtesse or Easynet details for their enquiries

To whom it may concern

Thank you for your enquiry regarding the above proposals at the above location

We would advise that we are unaware of any Interoute plant or services in this Location as indicated in your enquiry.

We bring to your attention the fact that whilst we try to ensure the information we provide is accurate, the information is provided Without Prejudice and Interoute and its Agents accept no liability for claims arising from any inaccuracy, omissions or errors contained in this response.

All responses are only valid for 28 days

Yours faithfully

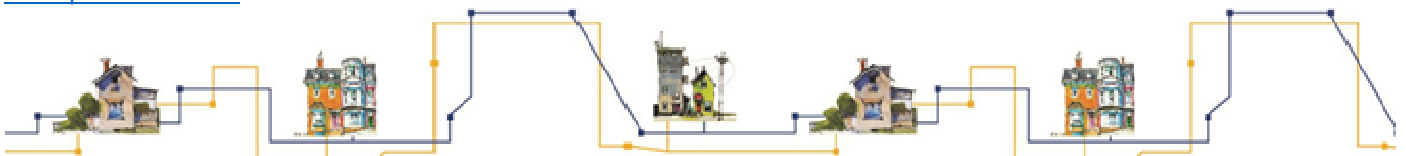
PLANCAST Plant Enquiry Department



The Old Haybarn
Rosebery Mews, Mentmore
Bedfordshire LU7 0UE

T: 01296 662 647

www.plancast.co.uk



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Registered office: 1st Floor, The Old Haybarn, Rosebery Mews, Mentmore LU7 0UE.

Registered in England and Wales with number 4455025 VAT No. 8567 195 80

telent
Mayne House
Fenton Way
Basildon
Essex
SS15 6TD
United Kingdom

www.telent.com

Date 23/10/2018
Our Ref OSA181023

Dear Sir/Madam

Teliasonera Line Plant Enquiry.

Thank you for your correspondence enclosing details of your proposals. Our client's apparatus, Teliasonera, is not located within the vicinity of your enquiry and we therefore have no further interest in this current location.

Please note that all enquiries relating to the Teliasonera line plant should be forwarded to:

By post – to, telent,

Teliasonera line plant enquiries,

Mayne House,

Fenton Way,

Basildon,

Essex

SS15 6TD

By email - to, telenttelia.plantenquiries@telent.com

By phone – to, 01268 269096

Yours faithfully

Telent CCO

Basildon

Debbie Miller

From: TM Plant Enquiries <plantenquiries@trafficmaster.co.uk>
Sent: 04 October 2018 09:29
To: Debbie Miller
Subject: RE: URGENT ASAP - Ref: 22630DM - Site : Land near Yarnton, Oxfordshire, OX5 1QD

Our ref: Damian Sweeney TEL: 01234759112 or 07712129249

New Roads and Street Works Act 1991- Sections 83, 84,142 and 143 Codes of Practice Appendix C2

In response to your notice regarding works which you, are proposing to undertake.

I can confirm that *Trafficmaster* does not have equipment installed within the boundary of the works.

If you have any further queries regarding this or any other programme, please do not hesitate to contact me on my details below.

Yours sincerely
For & on Behalf of
Trafficmaster Ltd

Infrastructure Maintenance
plantenquiries@trafficmaster.co.uk

From: Debbie Miller <DMiller@groundwise.com>
Sent: 02 October 2018 09:30
To: plantenquiries@energetics-uk.com; osm.enquiries@atkingglobal.com; plantenquiries@instalcom.co.uk; osp-team@uk.verizonbusiness.com; interoute.enquiries@plancast.co.uk; telenttelia.plantenquiries@telent.com; plantenquiries@psgservices.co.uk; plantenquiries@catelecomuk.com; NRSWA@bskyb.com; OPBuriedServicesEnquiries@networkrail.co.uk; TM Plant Enquiries <plantenquiries@trafficmaster.co.uk>; mbnl.plant.enquiries@turntown.com; assetrecords@utilityassets.co.uk; kpn.plantenquiries@instalcom.co.uk
Subject: URGENT ASAP - Ref: 22630DM - Site : Land near Yarnton, Oxfordshire, OX5 1QD

Ref: 22630DM
Site : Land near Yarnton, Oxfordshire, OX5 1QD
Grid reference: 446998,212662
Requests: URGENT ASAP

For your reference, we have provided a site plan. Please use both the grid reference/postcode & site plan when responding to our requests.

We are doing research on the above site for a client and would be grateful if you could confirm whether the above operators have any cabling or apparatus in the immediate vicinity. Should there be anything detected in the vicinity plus 50 meters around the site, I would appreciate a plan showing the location. The reason we need the information is so our client can avoid digging through your cables or can investigate the potential for connecting with your network.

Debbie Miller

From: UK OSP-Team <osp-team@uk.verizon.com>
Sent: 02 October 2018 11:46
To: Debbie Miller
Cc: UK OSP-Team
Subject: RE: URGENT ASAP - Ref: 22630DM - Site : Land near Yarnton, Oxfordshire, OX5 1QD

Dear Sir/Madam

Verizon is a licensed Statutory Undertaker.

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

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

Yours faithfully

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

From: Debbie Miller [mailto:DMiller@groundwise.com]
Sent: 02 October 2018 09:30
To: plantenquiries@energetics-uk.com; osm.enquiries@atkinsglobal.com; plantenquiries@instalcom.co.uk; UK OSP-Team; interoute.enquiries@plancast.co.uk; telenttelia.plantenquiries@telent.com; plantenquiries@psgservices.co.uk; plantenquiries@catelecomuk.com; NRSWA@bskyb.com; OPBuriedServicesEnquiries@networkrail.co.uk; plantenquiries@trafficmaster.co.uk; mbnl.plant.enquiries@turntown.com; assetrecords@utilityassets.co.uk; kpn.plantenquiries@instalcom.co.uk
Subject: URGENT ASAP - Ref: 22630DM - Site : Land near Yarnton, Oxfordshire, OX5 1QD

Ref: 22630DM
Site : Land near Yarnton, Oxfordshire, OX5 1QD
Grid reference: 446998,212662
Requests: URGENT ASAP

For your reference, we have provided a site plan. Please use both the grid reference/postcode & site plan when responding to our requests.

We are doing research on the above site for a client and would be grateful if you could confirm whether the above operators have any cabling or apparatus in the immediate vicinity. Should there be anything detected in the vicinity plus 50 meters around the site, I would appreciate a plan showing the location. The reason we need the information is so our client can avoid digging through your cables or can investigate the potential for connecting with your network.

I enclose location plans of the site for your convenience and look forward to hearing from you. We shall of course be providing a copy of your response to our client as part of a wider report on the site including reports from other utility companies or providers.

Should you have any problems in identifying the location of the sites or should you require further clarification of the details requested, please do not hesitate to contact me.



Groundwise Searches Ltd

Suite 8 Chichester House
45 Chichester Road
Southend-on-Sea
SS1 2JU

Virgin Media
Field Services
Units 1-12
Broad Lane
Mayfair Business Park
Bradford
Yorkshire
BD4 8PW

Tel: 0870 888 3116 Opt 2

Plant Enquiry Ref: VM.1117450
Letter Date 04.10.2018
Your Ref: 22630DM
Date: 05.10.2018

Dear Sir/Madam,

Enquiry Location:

Land near Yarnton, Oxfordshire, OX5 1QD

Thank you for your enquiry regarding work at the above location.
I enclose a copy of our above referenced drawing, marked to show the approximate position of plant owned and operated by Virgin Media.

You will be aware that you have a duty to ensure that no damage results to this equipment as a result of your proposed works. Please note that this apparatus may contain Fibre Optic, Coaxial and/or 240v Power Cables and as such, special care must be taken when excavating this area.

Should you require Virgin Media apparatus to be diverted we must agree a specification of works and provide a detailed estimate of costs. The costs are £720 (Business) or £240 (Residential) Inc VAT and the charge applies to each individual scheme requested. Both the estimate and specification will be sent to you within 25 working days of when the payment was received.

This initial payment will cover the following: -

- Detailed site visit by an experienced planning engineer.(Up to 10 hours planning time)
- Detailed specification of works.
- Detailed breakdown of costs.

Payment is required in advance for the estimated cost of detailed design work and the charge applies whether or not your works proceed. Please supply us with your payment and a copy of your plans or drawings and quote 'Our Ref' as above.

The address to send the cheque is:

Diversionary Works, Virgin Media, 1 Dove Wynd, Strathclyde Business Park Bellshill ML4 3AL

Or if you prefer to talk, please call the Diversionary Team on: 0800 408 0088 Option 1

Yours faithfully

National Plant Enquiries Team,



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Important Information - please read The purpose of this plan is to identify Virgin Media apparatus. We have tried to make it as accurate as possible but we cannot warrant its accuracy. In addition, we caution that within Virgin Media apparatus there may be instances where mains voltage power cables have been placed inside green, rather than black ducting. Further details can be found using the "Affected Postcodes.pdf", which can be downloaded from this website. Therefore, you must not rely solely on this plan if you are carrying out any excavation or other works in the vicinity of Virgin Media apparatus. The actual position of any underground service must be verified by cable detection equipment, etc. and established on site before any mechanical plant is used. Accordingly, unless it is due to the negligence of Virgin Media, its employees or agents, Virgin Media will not have any liability for any omissions or inaccuracies in the plan or for any loss or damage caused or arising from the use of and/or any reliance on this plan. This plan is produced by Virgin Media Limited (c) Crown copyright and database rights 2018 Ordnance Survey 100019209.

Duct, Trench



Chamber



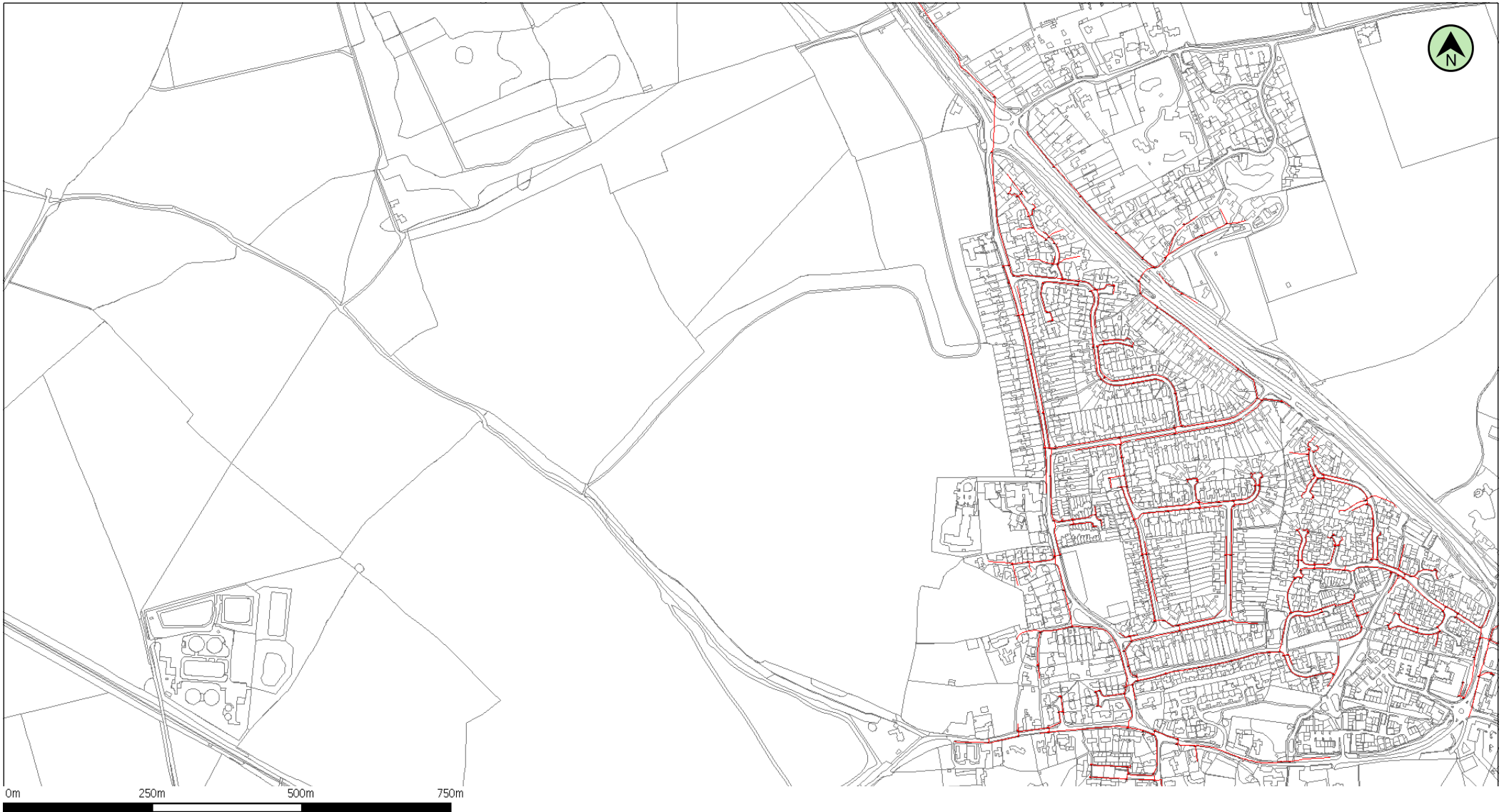
Cabinet



chilakala.apsar@virginmedia.co.uk

2





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Important Information - please read The purpose of this plan is to identify Virgin Media apparatus. We have tried to make it as accurate as possible but we cannot warrant its accuracy. In addition, we caution that within Virgin Media apparatus there may be instances where mains voltage power cables have been placed inside green, rather than black ducting. Further details can be found using the "Affected Postcodes.pdf", which can be downloaded from this website. Therefore, you must not rely solely on this plan if you are carrying out any excavation or other works in the vicinity of Virgin Media apparatus. The actual position of any underground service must be verified by cable detection equipment, etc. and established on site before any mechanical plant is used. Accordingly, unless it is due to the negligence of Virgin Media, its employees or agents, Virgin Media will not have any liability for any omissions or inaccuracies in the plan or for any loss or damage caused or arising from the use of and/or any reliance on this plan. This plan is produced by Virgin Media Limited (c) Crown copyright and database rights 2018 Ordnance Survey 100019209.

Duct, Trench



Chamber



Cabinet



chilakala.apsar@virginmedia.co.uk

1



Debbie Miller

From: Khandke, Harshita <Harshita.Khandke@atkinsglobal.com>
Sent: 03 October 2018 09:05
To: Debbie Miller
Subject: RE: URGENT ASAP - Ref: 22630DM - Site : Land near Yarnton, Oxfordshire, OX5 1QD
Attachments: A44-3.pdf; A44-2.pdf; A44-1.pdf; Vodafone External Apparatus Special Requirements.pdf

Please accept this email as confirmation that Vodafone: Fixed does have apparatus within the vicinity of your proposed works detailed below.

Please see attached network information.

Note: Only affected part is printed and our network is not present in the remaining areas of your proposed works.

IMPORTANT - PLEASE READ = Your Next Step?:-

Where apparatus is affected and requires diversion, please send all the scheme related proposals that affects the Vodafone Network to c3requests@vodafone.com with a request for a 'C3 Budget Estimate'. Please ensure you include a plan showing proposed works. (A location plan is insufficient for Vodafone to provide a costing). These estimates will be provided by Vodafone directly, normally within 20 working days from receipt of your request. Please include proof of this C2 response when requesting a C3 (using the 'forward' option). Diversionary works may be necessary if the existing line of the highway/railway or its levels are altered.

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

ATKINS working on behalf of Vodafone: Fixed 

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

PLEASE NOTE:

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



Please consider the environment before printing this e-mail

From: Debbie Miller <DMiller@groundwise.com>
Sent: 02 October 2018 14:00
To: plantenquiries@energetics-uk.com; National Plant Enquiry's <OSM.enquiries@atkinsglobal.com>; plantenquiries@instalcom.co.uk; osp-team@uk.verizonbusiness.com; interoute.enquiries@plancast.co.uk; telenttelia.plantenquiries@telent.com; plantenquiries@psgservices.co.uk; plantenquiries@catelecomuk.com;



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Legend

- Underground Utility Box.Location Act., T02
- Underground Route.Route Act. – Owned

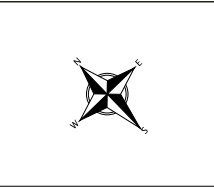


Vodafone Limited (No01471587) registered office is at Vodafone House, The Connection, Newbury, Berkshire, RG142FN

Plot Date : 03/10/2018 Scale : 1:1250



This plan shows apparatus owned by members of the Vodafone Group of companies (including legacy telecommunication companies currently within the group)

Information with regard to such apparatus should always be obtained from Vodafone or its appointed agents.



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Legend

-  Underground Utility Box.Location Act., T02
-  Underground Route.Route Act. – Owned

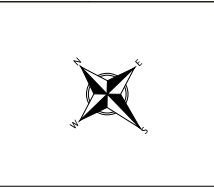


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- Underground Utility Box.Location Act., T02
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Special Requirements relating to the External Plant Network of Vodafone

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1. Introduction

This document sets out the procedure that will apply when Other Parties intend or are undertaking works in the vicinity of Vodafone apparatus (see Appendix B for further information on what constitutes Vodafone apparatus).

2. Purpose of document

This document provides a means by which the Vodafone specific special requirements relating to their apparatus, regardless of it being situated in the public highway / road, private street, land or any other areas, is made aware to Other Parties.



3. Scope

This document will be presented to Other Parties or Contractors to encourage those undertaking works within the vicinity of Vodafone apparatus to refer to and comply with. This is in order to protect where necessary the Vodafone apparatus and to avoid damage to the apparatus and loss of service.

A National Joint Utilities Group (NJUG) document NJUG Volume 3 Guidelines on the Management of Third Party Cable Ducting provides useful reference material.

It should be noted that, where appropriate, additional information on avoiding danger from underground apparatus is contained within the HSG47 guidance book titled "Avoiding Danger from Underground Services."

4. Vodafone Network and Apparatus

Damage to Vodafone apparatus is extremely disruptive and can be expensive to repair, especially where long lengths of cable have to be replaced.

In order to maintain the network integrity and minimise disruption to service, it is essential that disturbances are absolutely minimal. When working within the vicinity of Vodafone apparatus, extreme care is necessary in order to avoid costly repairs. The Other Parties / Contractor shall make every effort to ensure that disturbance of Vodafone apparatus is no more than is absolutely necessary for the completion of the works in accordance with their contract. It should be noted that it is an offence to interfere with Vodafone apparatus without first contacting the company for advice.

5. Plant records

It is the responsibility of the Other Parties undertaking works which may affect Vodafone apparatus to obtain all relevant Vodafone plant records from our agent Atkins Global prior to works commencing. This may be done by contacting the Atkins Global Plant Enquiries Team listed in Appendix B.

Plant records for such enquiries will generally be provided within 10 working days of receipt and in compliance with the New Roads and Street Works Act 1991 [NRSWA] requirements.

6. Definitions

The following definitions are applicable in this document:

- a) **Apparatus** - means all surface or sub-surface equipment and plant used by Vodafone including any associated cables or ducts owned, leased or rented by Vodafone.
- b) **Cable** - means any polythene or other sheath containing optical fibres or metallic conductors.
- c) **Depth of cover** - means the depth from the surface to the topmost barrel of the duct nest, in the case of ducts encased in concrete, to the top of the concrete, and in the case of directly buried cable, the top of the cable.
- d) **Jointing chamber** - means any manhole, surface box or other chamber giving access to Vodafone apparatus or their network.
- e) **Utility** - means an organisation licensed to provide gas, water, electricity, Cable TV or telecommunications services.
- f) **Developer** - means an organisation licensed to develop industrial/residential premises or given license to connect to utility apparatus.



- g) **Contractor** - means the individual, firm or company contracted to undertake the work for a Utility or Other Parties.
- h) **Other Parties** - means the Utilities, Highway or Roads Authorities, Developers, Street/Roads Authority Section 50/109 licensees
- i) **Site** - means the location of, or in the vicinity of, the various works.

7. Requirements

Prior to commencing any work or moving heavy plant or equipment over any portion of the site, the Other Parties or Contractor shall notify Vodafone of their intentions. This may be done by contacting Vodafone via the contact list in Appendix B.

Upon receipt of this notification, Vodafone will identify if their apparatus is affected. If any Vodafone apparatus is affected by the works then they will arrange for the necessary records to be provided and confirm details of Vodafone apparatus and network operated within the affected area or adjacent to the proposed work site.

7.1 Location of Plant

It is the responsibility of the Other Parties or Contractors to undertake adequate plant location procedures. These may include searches for metallic cables which must be performed by actively inducing a signal in a cable conductor via a transmitter. A passive search is not considered sufficient.

Before applying a tracing signal to the Vodafone apparatus, the Other Parties or Contractors shall seek confirmation from Atkins Global that the Vodafone apparatus will not suffer any disruption to its networks normal workings as a result of the nature of the signal being induced.

7.2 Trial excavations

Optic fibre cables are very susceptible to damage from excavation tools. They are not electrically conductive and cannot be located by radio induction methods. Once an approximate location is known, the exact location must be ascertained by means of hand dug pilot holes. Where the work to be carried out by the Other Party or Contractor involves excavation in the vicinity of our apparatus, the Other Party or Contractor shall, by trial excavation at his own expense, determine the exact location and depth of the Vodafone apparatus. All excavations adjacent to the Vodafone apparatus are to be carried out by hand until the extent and /or location of the apparatus is known.

All excavation work shall be executed in accordance with the current issue of Health and Safety series booklet HSG47, Avoiding danger from underground services.

8. Depths of cover

The Other Party or Contractor should note that the minimum depths of cover for Vodafone apparatus shall be maintained together with specified separation requirements. Where the minimum depths of cover specified by Vodafone cannot be maintained, the Other Party or Contractor shall at their own expense, carry out the instructions of Vodafone requirements for the protection or diversion of their apparatus.

The Other Party or Contractor should have particular regard to the possibility of encountering Vodafone apparatus (including ducts and cables), at depths of cover other than that reported.

Surface cables (such as cables on bridges or walls) which are liable to be placed in danger from the Other Parties or Contractors works shall be protected, at the Other Parties expense, as directed by the Vodafone representative.



9. Separation

Reference should be made to HSG47 to ensure that adequate separation is achieved. The following details outline the specific requirements of Vodafone and capture the HSG47 requirements.

9.1 High voltage cables

High voltage single core cables of 1000 V and above shall have a minimum clearance from Company Apparatus of 500 mm.

High voltage multi-core cables of 1000 V and above shall have a minimum clearance from Company Apparatus of 350 mm.

In exceptional circumstances where the above clearances cannot be maintained, the separating distance may be reduced to a minimum of 175 mm. In such circumstances, concrete, of a quality as directed by the Company Representative, must be inserted to completely fill the space between the High Voltage cable and the Company Apparatus, in accordance with the requirements of the Company Representative. Any further services must have a minimum clearance of 250 mm from the concrete.

9.2 Low voltage cables

Low voltage cables of less than 1000 V shall have a minimum clearance from Company Apparatus of 180 mm. In exceptional circumstances where the above clearance cannot be maintained, the separating distance may be reduced to a minimum of 75 mm. In such circumstances, concrete, of a quality as directed by the Company Representative, must be inserted to completely fill the space between the services, in accordance with the requirements of the Company Representative. Any further services must have a minimum clearance of 250 mm from the concrete.

9.3 Ancillary electrical apparatus

Street furniture such as lamp posts, traffic posts and other such ancillary electrical apparatus shall have a minimum clearance of 150 mm from underground Company Apparatus and 600mm clearance from above ground Company Apparatus.

9.4 High pressure gas mains and other Undertakers plant/equipment

High pressure gas mains shall have a minimum clearance of 450 mm from Company Apparatus. All other undertakers' plant and equipment, when running in parallel with Company Apparatus, shall have a minimum clearance of 200mm. Where gas mains cross Company Apparatus, the minimum clearance shall be 200mm. All other undertakers' plant and equipment, when running across Company Apparatus, shall have a minimum clearance of 100 mm. NJUG Volume 1, Guidelines on the positioning and colour coding of underground utilities' apparatus refers.

9.5 Other Undertakers plant

Other undertakers' plant and equipment which runs in parallel with Company Apparatus shall have a minimum clearance of 200mm. All other undertakers' plant and equipment when running across Company Apparatus shall have a minimum clearance of 100mm.

9.6 Tramways

Each separating distance shall be individually agreed with the Company Representative.



10. Jointing chambers

10.1 Protection

Footway type jointing chambers are not designed to withstand carriageway loadings.

Where such chambers are liable to be placed at risk, either temporarily or permanently, from vehicular traffic or from the movement of plant and/or equipment, they will need to be adequately protected. Alternatively, they may have to be demolished and rebuilt to carriageway standards, at the Other Parties or Contractors expense under supervision of Vodafone representative.

All Vodafone jointing chambers and / or other access points shall be kept clear and unobstructed. Access for vehicles, winches, cable drums and / or any further equipment required by Vodafone for the maintenance of its apparatus, must be maintained at all reasonable times.

10.2 Access

The covers to Vodafone jointing chambers and / or apparatus shall only be lifted by means of the appropriate keys and under the direct supervision of a Vodafone representative. Other Parties or Contractors shall not enter any Vodafone jointing chamber and / or apparatus unless under the supervision of a Vodafone representative and in any case not before the mandatory gas test has been carried out in the presence of Vodafone representative and such checks have shown it to be safe to enter the Vodafone chamber and / or apparatus. The Other Parties or Contractors shall be given reasonable access to Vodafone apparatus and chambers when required.

11. Notification periods

Where the Other Parties or Contractors works or the movement of plant or equipment may endanger Vodafone apparatus, the Other Party or Contractor shall give the Vodafone **at** least 7 working days' notice in writing of the intended date to commence operations.

No excavation should be made without first consulting the relevant Vodafone apparatus layout drawings, which will be made available from the Vodafone agent Atkins Global on request and allowing 28 working days for processing the relevant drawings. However, should this not be possible, direct contact should be made to the Atkins Global Plant Enquiries Team as soon as possible to assess the situation.

When excavating, moving or backfilling (including use of Foamed Concrete for Reinstatements – FCR) around Vodafone apparatus, Vodafone shall be given adequate prior written notice of the Other Parties or Contractors intentions, in order that the works may be adequately supervised. Such notice shall not be less than 3 working days.

12. Excavation and backfill

All excavations adjacent to Vodafone apparatus are to be carried out by hand until the extent and or location of the Vodafone apparatus is known.

Use of mechanical borers and / or excavators shall not be used without the supervisory presence of a Vodafone representative or a given exemption.

Shuttering of the excavation or support to Vodafone apparatus, at the Other Parties or Contractors expense, shall be used as directed by the Vodafone representative.

At least 7 working days' notice must be given to Vodafone in order that any special protective measures which may be required to protect Vodafone apparatus, at the Other Parties or Contractors expense, when equipment such as pile driving, explosives, laser cutting high powered RF equipment or RF test gear, is to be used in conjunction with the works.



Other Parties or Contractors are advised to refer to the National Joint Utilities Group publication: NJUG Volume 1- Guidelines on the Positioning and Colour Coding of Underground Utilities' Apparatus

13. Foam concrete

If foam concrete is being used as the backfill material, it shall not be used either above or within 500 mm of any Company Apparatus. A suitable material in accordance with the specification for the Reinstatement of Openings in Highways shall be substituted.

14. Attendance of Company Representative

If a situation requires the attendance on site of a Vodafone representative for a continuous period of more than 6 hours, suitable facilities shall be provided by the Other Party or Contractor, at their expense, to meet the office and ablution requirements. If a situation arises that requires urgent attention Vodafone will endeavour to attend site within 2 hours for all other occasions arising, 24 hours.

15. Damage reports

In the event of any damage whatsoever occurring to Vodafone apparatus, the Other Party or Contractor shall immediately inform Vodafone by contacting their 24/7 number , (for contact details please refer to Appendix A).

All relevant costs of any subsequent repair and / or removal of the Vodafone apparatus shall be charged to the Other Party or Contractor, irrespective of who affects the repair.

The above requirements do not relieve the Other Party or Contractor of any of their obligations under their contract.



16. Appendix A – Street Works Team Contacts for Vodafone

Function	Address	Phone	Email Address
Streetworks Team	Vodafone Damage Claims, Pavilion 4, 1-2 Berkeley Square , 99 Berkeley Street Glasgow G3 7HR	0333 304 0759	utilitiescentre@vodafone.com
Customer Complaints	n/a	0333 304 0762	n/a
Liability Claims Or Damage to Vodafone Apparatus	Vodafone Damage Claims, Pavilion 4, 1-2 Berkeley Square , 99 Berkeley Street Glasgow G3 7HR	0333 304 1104	claims@vodafone.com
Diversionary Works C2/C3	Atkins Global, PO Box 290, 500 Aztec West, Almondsbury, Bristol, BS32 4RZ.	T: 01454 662881 F: 01454 663330	osm.enquiries@atkinsglobal.com
Diversionary Works C4 / Escalations	Smale House, Floor 2E, 114 Great Suffolk Street, London, SE1 OSL	02075281485	c3requests@vodafone.com
Emergencies 24 Hour – Defects & Faults	n/a	0333 304 0762	n/a
Plant Enquiries Vodafone inc: Cable & Wireless; Mercury Communications; Thus Plc; Energis; Scottish Telecom; Your Comms; Norweb Comms	Atkins Global PO Box 290 500 Aztec West, Almondsbury, Bristol, BS32 4RZ	T: 01454 662881 F: 01454 663330	osm.enquiries@atkinsglobal.com



17. Appendix B – What constitutes Vodafone Network

Vodafone own fibre network dedicated to business and residential users of telecommunications and has an international cable network that provides connectivity to 153 countries, either directly or indirectly through partners, reaching across the Atlantic Ocean, through Europe and on to India and throughout Asia. Spanning approximately 500,000 km in length, including interests in more than 69 major global cable systems, our next-generation network improves the quality and performance of telecommunications services through our use of advance optical and IP transmission.

In the UK & Ireland Vodafone's overall network includes the following legacy networks now owned through acquisitions or Company name changes.

Below are examples of what you could see on the streets and should be aware of:



Cable & Wireless became Cable & Wireless Worldwide in 2010





Mercury Communications – changed its name to Cable & Wireless in 1996



Energis – was acquired by Cable Wireless in 2005





Thus plc was acquired by Cable & Wireless in 2008



Scottish Telecom

Scottish Telecom demerged from its parent company Scottish Power to become Thus plc in 2002





your communications

Your Communications was integrated into Thus plc in 2006



NORWEB COMMS

Norweb Communications became Your Communications in 2000



Our apparatus is installed in roads and streets of UK and Ireland, however in some places is undistinguishable from other operators' apparatus, for example in City Centres where high quality infill modular paving chamber covers are found; some with labels and some without.

See below as examples:





The apparatus shown here is now owned, maintained and still in operation by Vodafone and includes.

Vodafone
Cable & Wireless
Mercury Communications
Energis
Thus plc
Your Communications
Norweb Communications
Scottish Telecom

Please see the Contact Details in Appendix A for Plant Enquiries and help on site.

18. About this Document

Content Owner

Chris Nesbitt

Changes since last version

Reformatted using the current Vodafone template to include updated Contact Details .

End of Document

Debbie Miller

From: DocControl_NRTS <DocControl_NRTS@telent.com>
Sent: 02 October 2018 12:31
To: Debbie Miller
Subject: FW: FW: URGENT ASAP - Ref: 22630DM - Site : Land near Yarnton, Oxfordshire, OX5 1QD DR029279

Thank you for your email to telent regarding the above.

Our searches undertaken utilising telent records only indicate that there are **no** Highways Agency NRTS assets maintained by telent within the vicinity of your works.

Services operated by others may be present in this area, including those for other Highways Agency Systems. Information regarding these other possible services should be obtained from the relevant parties.

Please address any queries regarding this email and its content to the tenet Service Desk on 0845 603 2239 or alternatively 0121 506 6102, or servicedesk@nrtsc.com

Regards
Steve Bolton

telent Document Control Group
Direct: 0121 506 6224
Mobile: 07870 312424

|
Direct: | Mobile:
E-mail: DocControl_NRTS@telent.com | Web: www.telent.com



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Registered Office: Point 3, Haywood Road, Warwick, CV34 5AH, England
telent Technology Services Limited is authorised and regulated by the Financial Conduct Authority for credit-related regulated activities

From: Service Desk <servicedesk@nrtsc.com>
Sent: 02 October 2018 11:36
To: DocControl_NRTS <DocControl_NRTS@telent.com>
Subject: Fw: FW: URGENT ASAP - Ref: 22630DM - Site : Land near Yarnton, Oxfordshire, OX5 1QD DR029279

Hi team,
please see below request and action accordingly - this has been logged under our reference number DR029279
Kindest regards and very best wishes
Kate

telent Service Desk
9 Ridgeway
Quinton Business Park
Birmingham
B32 1AF

Tel: 0845 603 2239
Fax: 0121 506 6102
Email: servicedesk@nrtsc.com

Debbie Miller

From: Milne Gareth <Gareth.Milne@networkrail.co.uk> on behalf of OP Buried Services Enquiries <OPBuriedServicesEnquiries@networkrail.co.uk>
Sent: 02 October 2018 13:52
To: Debbie Miller
Subject: RE: URGENT ASAP - Ref: 22630DM - Site : Land near Yarnton, Oxfordshire, OX5 1QD

Dear Sir/Madam,

With regards to your enquiry, Network Rail does not believe there is any Network Rail owned apparatus or underground services within the area you have defined. As there is always the possibility that new works could be planned and undertaken in this area by Network Rail this information is valid as at today's date and is supplied for general guidance only.

Please be aware that this response is based on Network Rail's records and knowledge and no guarantee can be given regarding accuracy or completeness. CAT scans, safe digging practices (as contained in HSE publications) and other appropriate investigative techniques should always be carried out.

There may be other apparatus or underground services owned or operated by Utility Companies and accordingly you should contact individual utilities for information.

If, in connection with your investigations and/or work, you become aware of Network Rail apparatus or underground services within your area of work, please ensure these are notified to our Asset Protection team via the following link as a matter of urgency so that appropriate measures for avoidance of risk and damage can be put in place.

<http://www.networkrail.co.uk/aspx/1758.aspx?cd=1>

If you require any further clarification on any of the information please contact opburiedservicesenquiries@networkrail.co.uk.

Regards,

Gareth Milne

Distribution Administrator, Worksite Survey

Asset Information Services: inspiring & enabling through the power of data

National Records Centre, 5 Audax Road, York YO30 4GS

T +44(0)1904 386393

E gareth.milne@networkrail.co.uk

Network Rail – Working for you

AIS Hub

[Visit the new AIS Hub site](#) for information, user guides, key contacts, and more on all our services.

AIS Hub is replacing ASD Online and our Connect pages from Monday 3 September 2018

From: Debbie Miller [mailto:DMiller@groundwise.com]

Sent: 02 October 2018 09:30

To: plantenquiries@energetics-uk.com; osm.enquiries@atkinglobal.com; plantenquiries@instalcom.co.uk; osp-team@uk.verizonbusiness.com; interoute.enquiries@plancast.co.uk; telenttelia.plantenquiries@telent.com; plantenquiries@psgservices.co.uk; plantenquiries@catelecomuk.com; NRSWA@bskyb.com; OP Buried Services Enquiries; plantenquiries@trafficmaster.co.uk; mbnl.plant.enquiries@turntown.com; assetrecords@utilityassets.co.uk; kpn.plantenquiries@instalcom.co.uk

Subject: URGENT ASAP - Ref: 22630DM - Site : Land near Yarnton, Oxfordshire, OX5 1QD

Ref: 22630DM
Site : Land near Yarnton, Oxfordshire, OX5 1QD
Grid reference: 446998,212662
Requests: URGENT ASAP

For your reference, we have provided a site plan. Please use both the grid reference/postcode & site plan when responding to our requests.

We are doing research on the above site for a client and would be grateful if you could confirm whether the above operators have any cabling or apparatus in the immediate vicinity. Should there be anything detected in the vicinity plus 50 meters around the site, I would appreciate a plan showing the location. The reason we need the information is so our client can avoid digging through your cables or can investigate the potential for connecting with your network.

I enclose location plans of the site for your convenience and look forward to hearing from you. We shall of course be providing a copy of your response to our client as part of a wider report on the site including reports from other utility companies or providers.

Should you have any problems in identifying the location of the sites or should you require further clarification of the details requested, please do not hesitate to contact me.

I look forward to receiving details from you and thank you in advance for your assistance in this matter.

Kind regards,

Debbie Miller
Production Researcher
Groundwise Searches Ltd



dmiller@groundwise.com | 01702 615566 | www.groundwise.com
Suite 8 Chichester House, 45 Chichester Road, Southend-on-Sea, Essex SS1 2JU

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*Business Address and Registered Office - Suite 8 Chichester House, 45 Chichester Road, Southend-on-Sea, Essex SS1 2JU
Company Registration Number 4130795
VAT number 769 0642 02*

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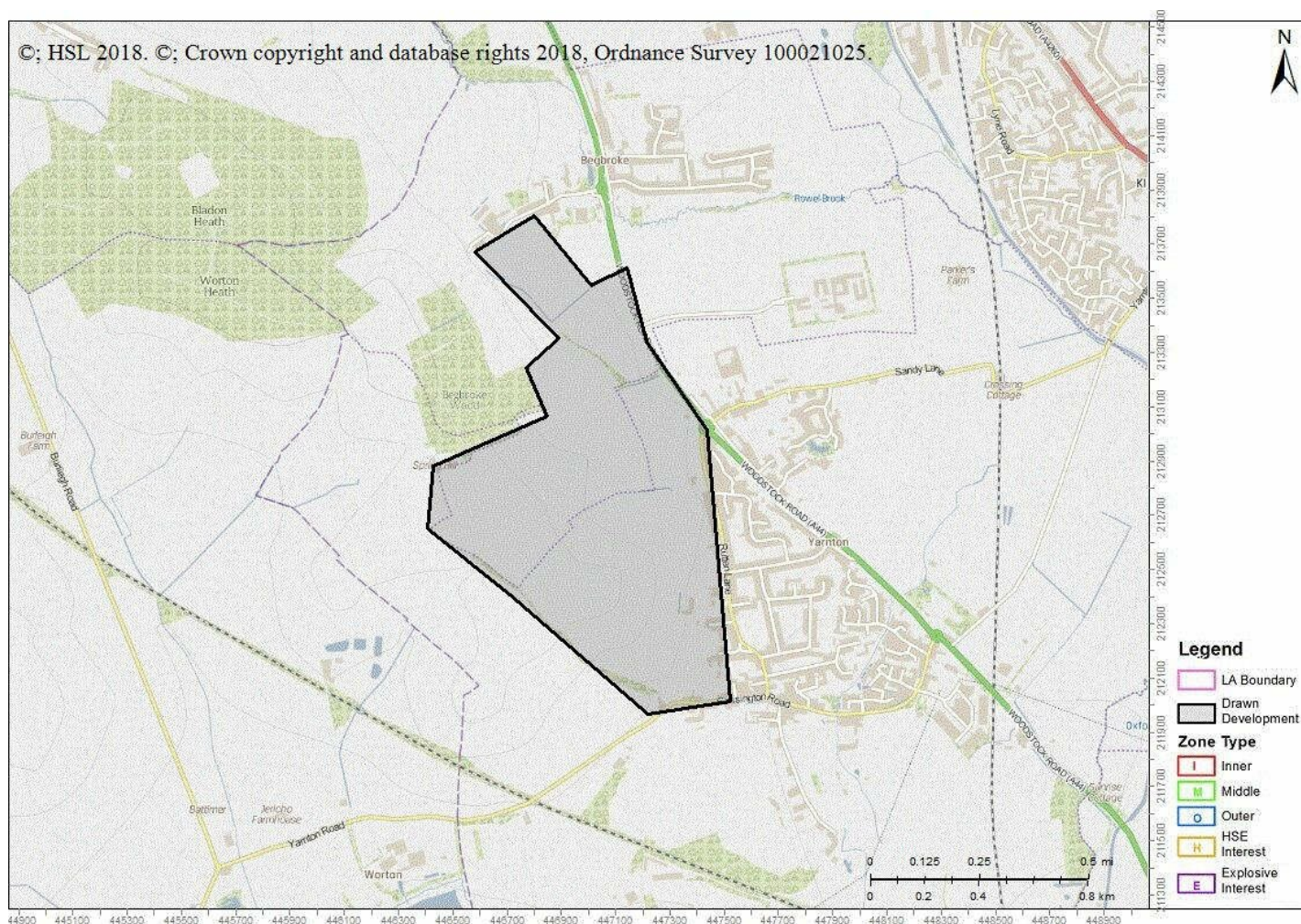
Network Rail Infrastructure Limited registered in England and Wales No. 2904587, registered office
Network Rail, 2nd Floor, One Eversholt Street, London, NW1 2DN

Advice : HSL-181003112925-963 Does Not Cross Any Consultation Zones

Your Ref: 22630DM

Development Name: Land near Yarnton

Comments: study



The proposed development site which you have identified does not currently lie within the consultation distance (CD) of a major hazard site or major accident hazard pipeline; therefore at present HSE does not need to be consulted on any developments on this site. However, should there be a delay submitting a planning application for the proposed development on this site, you may wish to approach HSE again to ensure that there have been no changes to CDs in this area in the intervening period.

This advice report has been generated using information supplied by at Groundwise Searches Ltd on 03 October 2018.

HSE's Advice

Your development does not intersect a pipeline or hazard zone, HSE Planning Advice does not have an interest in the development.

Our Reference : **HSL-181003112925-963**

Your Reference : **22630DM**

Development Name : **Land near Yarnton**

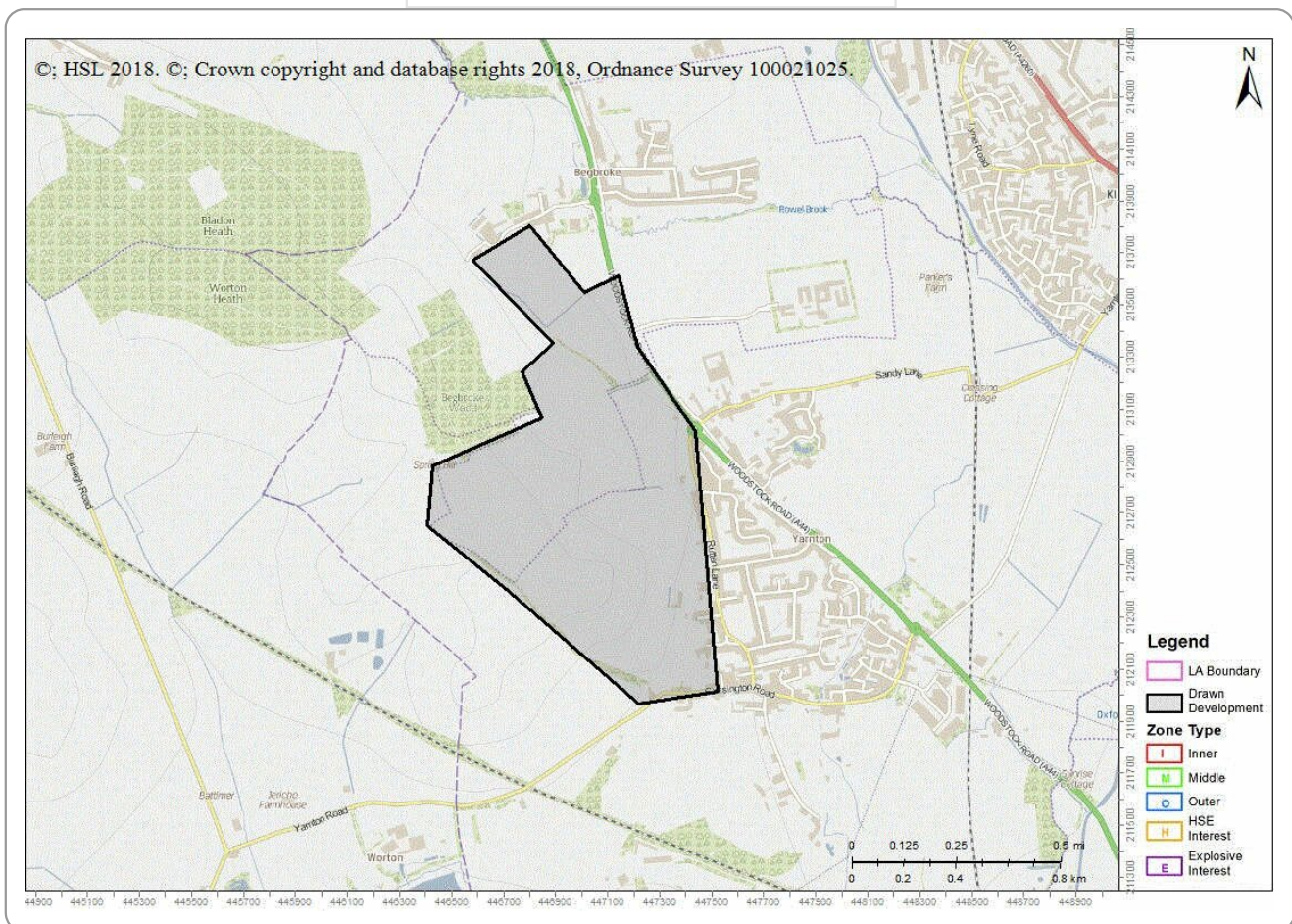
Date Created : **03/10/2018 11:29:25**

Description/Comments : **study**

Created By : **RMUNNS@GROUNDWISE.COM**

Phase 1 documents
No HI/MHP Interest Report
(../Download/File/?HSLRefer=HSL-181003112925-963&DownloadType=HSEHasNoInterest)

Please check all mapping details, including the drawn planning boundary and background mapping, are correct.



Developed by HSL, part of HSE

Enquirer

Name	Mr David Gunn	Phone	01702615566
Company	Groundwise Searches Ltd	Mobile	07930348216
Address	Suite 8 45 Chichester Road Southend On Sea Essex SS1 2JU		
Email	sales@groundwise.com		

Enquiry Details

Scheme/Reference	22360		
Enquiry type	Initial Enquiry	Work category	Property Conveyance
Start date	28/10/2018	Work type	Commercial/industrial
End date	28/11/2018	Site size	303774 metres square
Searched location	XY= -1.320475, 51.81064 Long/Lat	Work type buffer*	75 metres
Confirmed location	446986 213445		
Site Contact Name	Not Supplied	Site Phone No	Not Supplied
Description of Works	- CONTINUED FROM JOB: 13848634 -		

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

Site Map


Asset Owners

Terms and Conditions. Please note that this enquiry is subject always to our standard terms and conditions available at www.lineasearchbeforeudig.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.

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

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

Below are three lists of asset owners:

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

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

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

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
ESP Utilities Group	01372227560	01372227560	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)
BP Exploration Operating Company Limited	BPA	Carrington Gas Pipeline
CATS Pipeline c/o Wood Group PSN	Cemex	Centrica Storage Ltd
CLH Pipeline System Ltd	Concept Solutions People Ltd	ConocoPhillips (UK) Ltd
DIO (MOD Abandoned Pipelines)	E.ON UK CHP Limited	EirGrid
Electricity North West Limited	ENI & Himor c/o Penspen Ltd	EnQuest NNS Limited
EP Langage Limited	ESSAR	Esso Petroleum Company Limited
Fulcrum Pipelines Limited	Gamma	Gateshead Energy Company
Gigaclear PLC	Gtt	Hafren Dyfrdwy
Humbly Grove Energy	IGas Energy	INEOS FPS Pipelines
INEOS Manufacturing (Scotland and TSEP)	INOVYN Enterprises Limited	Intergen (Coryton Energy or Spalding Energy)
Mainline Pipelines Limited	Manchester Jetline Limited	Manx Cable Company
Marchwood Power Ltd (Gas Pipeline)	Melbourn Solar Limited	National Grid Gas (Above 7 bar), National Grid Gas Distribution Limited (Above 2 bar) and National Grid Electricity Transmission
Northumbrian Water Group	NPower CHP Pipelines	Oikos Storage Limited
Ørsted	Perenco UK Limited (Purbeck Southampton Pipeline)	Petroineos
Phillips 66	Premier Transmission Ltd (SNIP)	Prysmian Cables & Systems Ltd (c/o Western Link)
Redundant Pipelines - LPDA	RWEnpower (Little Barford and South Haven)	SABIC UK Petrochemicals
Scottish Power Generation	Seabank Power Ltd	Severn Trent (Chester area only)
Shell (St Fergus to Mossmorran)	Shell Pipelines	SSE (Peterhead Power Station)
Tata Communications (c/o JSM Construction Ltd)	Total (Colnbrook & Colwick Pipelines)	Total Finaline Pipelines
Transmission Capital	UK Power Networks	Uniper UK Ltd
Vattenfall	Veolia ES SELCHP Limited	Western Power Distribution
Westminster City Council	Wingas Storage UK Ltd	Zayo Group UK Ltd c/o JSM Group Ltd

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Non-LSBUD members (Asset owners not registered on LSBUD)			
Asset Owner	Preferred contact method	Phone	Status
BT	https://www.swns.bt.com/pls/mbe/welcome.home	08009173993	Not Notified
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
Energetics Electricity	plantenquiries@energetics-uk.com	01698404646	Not Notified
ENGIE	nrsua@cofely-gdfsuez.com	01293 549944	Not Notified
GTC	https://pe.gtc-uk.co.uk/PlantEnqMembership	01359240363	Not Notified
Interoute	interoute.enquiries@plancast.co.uk	02070259000	Not Notified
KPN (c/-Instalcom)	kpn.plantenquiries@instalcom.co.uk	n/a	Not Notified
Mobile Broadband Network Limited	mbnl.plant.enquiries@turntown.com	01212 621 100	Not Notified
Scottish and Southern Energy	asset.data@sse.com	01256337294	Not Notified
Sota	SOTA.plantenquiries@instalcom.co.uk		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
Vtesse Networks	https://plant.interoute.com/plant-enquiries/	01992532100	Not Notified

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Enquirer

Name	Mr David Gunn	Phone	01702615566
Company	Groundwise Searches Ltd	Mobile	07930348216
Address	Suite 8 45 Chichester Road Southend On Sea Essex SS1 2JU		
Email	sales@groundwise.com		

Enquiry Details

Scheme/Reference	22360		
Enquiry type	Initial Enquiry	Work category	Property Conveyance
Start date	28/10/2018	Work type	Commercial/industrial
End date	28/11/2018	Site size	303774 metres square
Searched location	XY= -1.320475, 51.81064 Long/Lat	Work type buffer*	75 metres
Confirmed location	446986 213445		
Site Contact Name	Not Supplied	Site Phone No	Not Supplied
Description of Works	- CONTINUED FROM JOB: 13848634 -		

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

Site Map


Asset Owners

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CATS Pipeline c/o Wood Group PSN	Cemex	Centrica Storage Ltd
CLH Pipeline System Ltd	Concept Solutions People Ltd	ConocoPhillips (UK) Ltd
DIO (MOD Abandoned Pipelines)	E.ON UK CHP Limited	EirGrid
Electricity North West Limited	ENI & Himor c/o Penspen Ltd	EnQuest NNS Limited
EP Langage Limited	ESSAR	Esso Petroleum Company Limited
Fulcrum Pipelines Limited	Gamma	Gateshead Energy Company
Gigaclear PLC	Gtt	Hafren Dyfrdwy
Humbly Grove Energy	IGas Energy	INEOS FPS Pipelines
INEOS Manufacturing (Scotland and TSEP)	INOVYN Enterprises Limited	Intergen (Coryton Energy or Spalding Energy)
Mainline Pipelines Limited	Manchester Jetline Limited	Manx Cable Company
Marchwood Power Ltd (Gas Pipeline)	Melbourn Solar Limited	National Grid Gas (Above 7 bar), National Grid Gas Distribution Limited (Above 2 bar) and National Grid Electricity Transmission
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BT	https://www.swns.bt.com/pls/mbe/welcome.home	08009173993	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
Energetics Electricity	plantenquiries@energetics-uk.com	01698404646	Not Notified
ENGIE	nrsua@cofely-gdfsuez.com	01293 549944	Not Notified
GTC	https://pe.gtc-uk.co.uk/PlantEnqMembership	01359240363	Not Notified
Interoute	interoute.enquiries@plancast.co.uk	02070259000	Not Notified
KPN (c/-Instalcom)	kpn.plantenquiries@instalcom.co.uk	n/a	Not Notified
Mobile Broadband Network Limited	mbnl.plant.enquiries@turntown.com	01212 621 100	Not Notified
Scottish and Southern Energy	asset.data@sse.com	01256337294	Not Notified
Sota	SOTA.plantenquiries@instalcom.co.uk		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
Vtesse Networks	https://plant.interoute.com/plant-enquiries/	01992532100	Not Notified

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ESP Utilities Group
Unit 22, Bluebird House, Mole Business Park,
Leatherhead,
Surrey, KT22 7BA
Phone: 01372 587500
Email: plantresponses@espug.com



Dear Sir/Madam,

Thank you for your recent plant enquiry.

I can confirm that ESP Utilities Group Ltd has no gas or electric apparatus in the vicinity of this site address and will not be affected by your proposed works.

ESP are continually laying new gas and electricity networks and this notification is valid for 90 days from the date of this letter. If your proposed works start after this period of time, please re-submit your enquiry.

Yours faithfully,

ESP Utilities Group

Phone: 01372 587500

Email: plantresponses@espug.com

Asset location search



Property Searches

Groundwise Searches Ltd
Suite 8 Chichester House
45 Chichester Road
SOUTHEND ON SEA
SS1 2JU

Search address supplied Land Near Yarnton
Oxfordshire
OX5 1QD

Your reference 22630DM

Our reference ALS/ALS Standard/2018_3883092

Search date 3 October 2018

Keeping you up-to-date

Notification of Price Changes

From 1 September 2018 Thames Water Property Searches will be increasing the price of its Asset Location Search in line with RPI at 3.23%.

For further details on the price increase please visit our website: www.thameswater-propertysearches.co.uk
Please note that any orders received with a higher payment prior to the 1 September 2018 will be non-refundable.



Thames Water Utilities Ltd
Property Searches, PO Box 3189, Slough SL1 4WW
DX 151280 Slough 13



searches@thameswater.co.uk
www.thameswater-propertysearches.co.uk



0845 070 9148



Search address supplied: Land Near Yarnton, Oxfordshire, OX5 1QD

Dear Sir / Madam

An Asset Location Search is recommended when undertaking a site development. It is essential to obtain information on the size and location of clean water and sewerage assets to safeguard against expensive damage and allow cost-effective service design.

The following records were searched in compiling this report: - the map of public sewers & the map of waterworks. Thames Water Utilities Ltd (TWUL) holds all of these.

This search provides maps showing the position, size of Thames Water assets close to the proposed development and also manhole cover and invert levels, where available.

Please note that none of the charges made for this report relate to the provision of Ordnance Survey mapping information. The replies contained in this letter are given following inspection of the public service records available to this company. No responsibility can be accepted for any error or omission in the replies.

You should be aware that the information contained on these plans is current only on the day that the plans are issued. The plans should only be used for the duration of the work that is being carried out at the present time. Under no circumstances should this data be copied or transmitted to parties other than those for whom the current work is being carried out.

Thames Water do update these service plans on a regular basis and failure to observe the above conditions could lead to damage arising to new or diverted services at a later date.

Contact Us

If you have any further queries regarding this enquiry please feel free to contact a member of the team on 0845 070 9148, or use the address below:

Thames Water Utilities Ltd
Property Searches
PO Box 3189
Slough
SL1 4WW

Email: searches@thameswater.co.uk

Web: www.thameswater-propertysearches.co.uk

Waste Water Services

Please provide a copy extract from the public sewer map.

The following quartiles have been printed as they fall within Thames' sewerage area:

SP4712SW
SP4613NE
SP4612SE
SP4712NW
SP4612NE
SP4713NW
SP4713SW

Enclosed is a map showing the approximate lines of our sewers. Our plans do not show sewer connections from individual properties or any sewers not owned by Thames Water unless specifically annotated otherwise. Records such as "private" pipework are in some cases available from the Building Control Department of the relevant Local Authority.

Where the Local Authority does not hold such plans it might be advisable to consult the property deeds for the site or contact neighbouring landowners.

This report relates only to sewerage apparatus of Thames Water Utilities Ltd, it does not disclose details of cables and or communications equipment that may be running through or around such apparatus.

The sewer level information contained in this response represents all of the level data available in our existing records. Should you require any further Information, please refer to the relevant section within the 'Further Contacts' page found later in this document.

The following quartiles have not been printed as they contain no assets:

SP4612NW
SP4613SE

For your guidance:

- The Company is not generally responsible for rivers, watercourses, ponds, culverts or highway drains. If any of these are shown on the copy extract they are shown for information only.
- Any private sewers or lateral drains which are indicated on the extract of the public sewer map as being subject to an agreement under Section 104 of the Water Industry Act 1991 are not an 'as constructed' record. It is recommended these details be checked with the developer.

Clean Water Services

Please provide a copy extract from the public water main map.

The following quartiles have been printed as they fall within Thames' water area:

SP4712SW
SP4613NE
SP4712NW
SP4713NW
SP4713SW

Enclosed is a map showing the approximate positions of our water mains and associated apparatus. Please note that records are not kept of the positions of individual domestic supplies.

For your information, there will be a pressure of at least 10m head at the outside stop valve. If you would like to know the static pressure, please contact our Customer Centre on 0800 316 9800. The Customer Centre can also arrange for a full flow and pressure test to be carried out for a fee.

The following quartiles have not been printed as they contain no assets:

SP4612NW
SP4612SE
SP4613SE
SP4612NE

For your guidance:

- Assets other than vested water mains may be shown on the plan, for information only.
- If an extract of the public water main record is enclosed, this will show known public water mains in the vicinity of the property. It should be possible to estimate the likely length and route of any private water supply pipe connecting the property to the public water network.

Payment for this Search

A charge will be added to your suppliers account.

Further contacts:

Waste Water queries

Should you require verification of the invert levels of public sewers, by site measurement, you will need to approach the relevant Thames Water Area Network Office for permission to lift the appropriate covers. This permission will usually involve you completing a TWOSA form. For further information please contact our Customer Centre on Tel: 0845 920 0800. Alternatively, a survey can be arranged, for a fee, through our Customer Centre on the above number.

If you have any questions regarding sewer connections, budget estimates, diversions, building over issues or any other questions regarding operational issues please direct them to our service desk. Which can be contacted by writing to:

Developer Services (Waste Water)
Thames Water
Clearwater Court
Vastern Road
Reading
RG1 8DB

Tel: 0800 009 3921
Email: developer.services@thameswater.co.uk

Clean Water queries

Should you require any advice concerning clean water operational issues or clean water connections, please contact:

Developer Services (Clean Water)
Thames Water
Clearwater Court
Vastern Road
Reading
RG1 8DB

Tel: 0800 009 3921
Email: developer.services@thameswater.co.uk



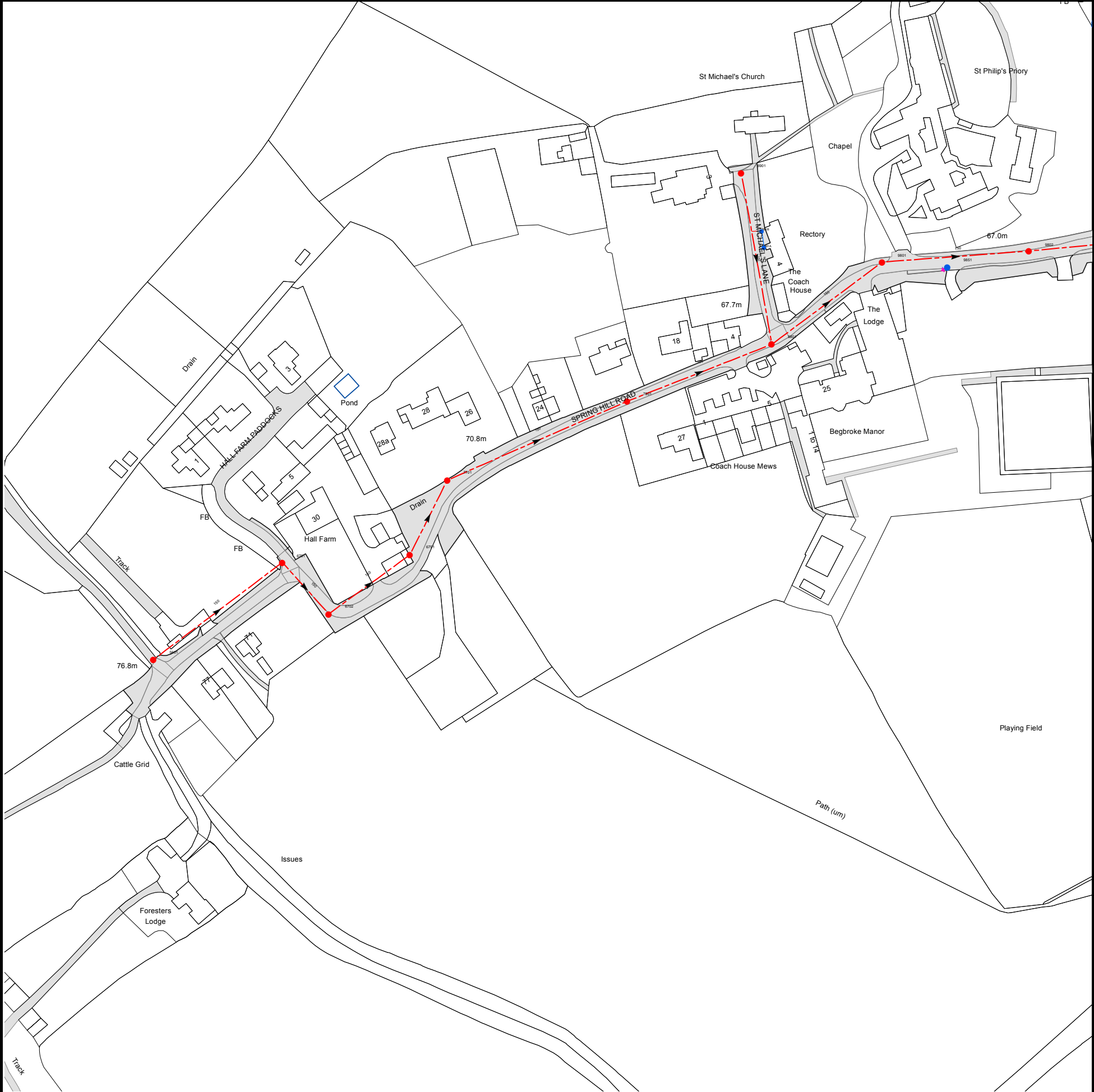
The width of the displayed area is 500m and the centre of the map is located at OS coordinates 447250,212250

The position of the apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. Service pipes are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Thames Water for any error or omission. The actual position of mains and services must be verified and established on site before any works are undertaken.

Based on the Ordnance Survey Map with the Sanction of the controller of H.M. Stationery Office, License no. 100019345 Crown Copyright Reserved.

NB. Levels quoted in metres Ordnance Newlyn Datum. The value -9999.00 indicates that no survey information is available

Manhole Reference	Manhole Cover Level	Manhole Invert Level
4204	n/a	63.88
4205	n/a	64.2
4210	n/a	n/a
4213	65.48	63.78
4202	64.96	62.84
4209	64.73	62.47
4203	65.2	63.55
301A	n/a	n/a
301B	n/a	n/a
3002	64.54	63.03
3001	63.48	62.07
4002	63.02	61.56
4001	61.95	60.4
4101	64.19	62.64
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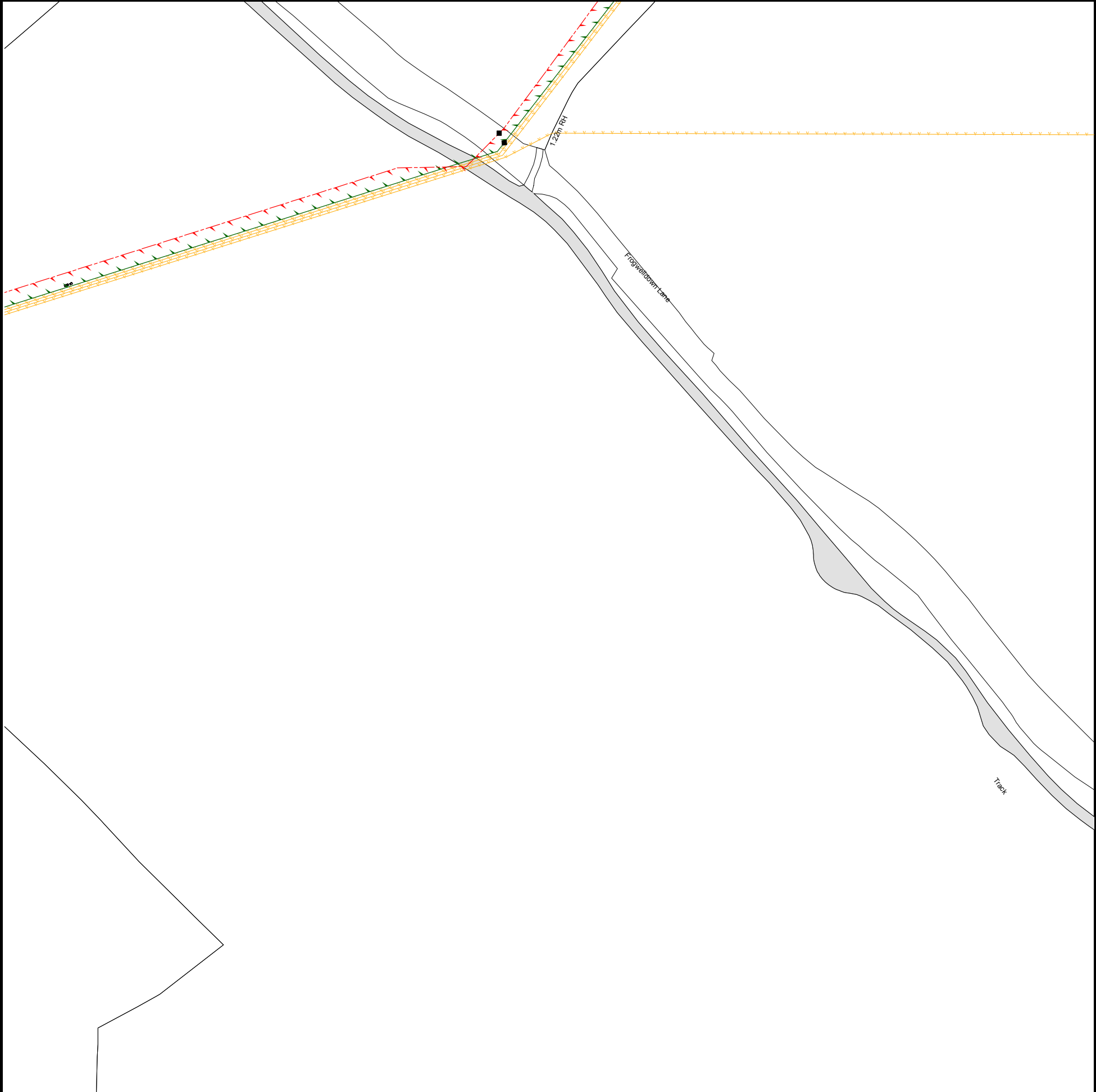
The width of the displayed area is 500m and the centre of the map is located at OS coordinates 446750,213750

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Manhole Reference	Manhole Cover Level	Manhole Invert Level
5601	76.58	75.22
6701	75.54	73.85
6702	75.18	73.18
6791	n/a	n/a
7701	71.83	70.32
7801	69.3	67.65
8901	68.63	67.33
881B	n/a	n/a
881A	n/a	n/a
8801	67.22	65.91
9801	67.23	66.06
9851	67.1	66.37
9802	67.02	65.74
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n/a	n/a	n/a
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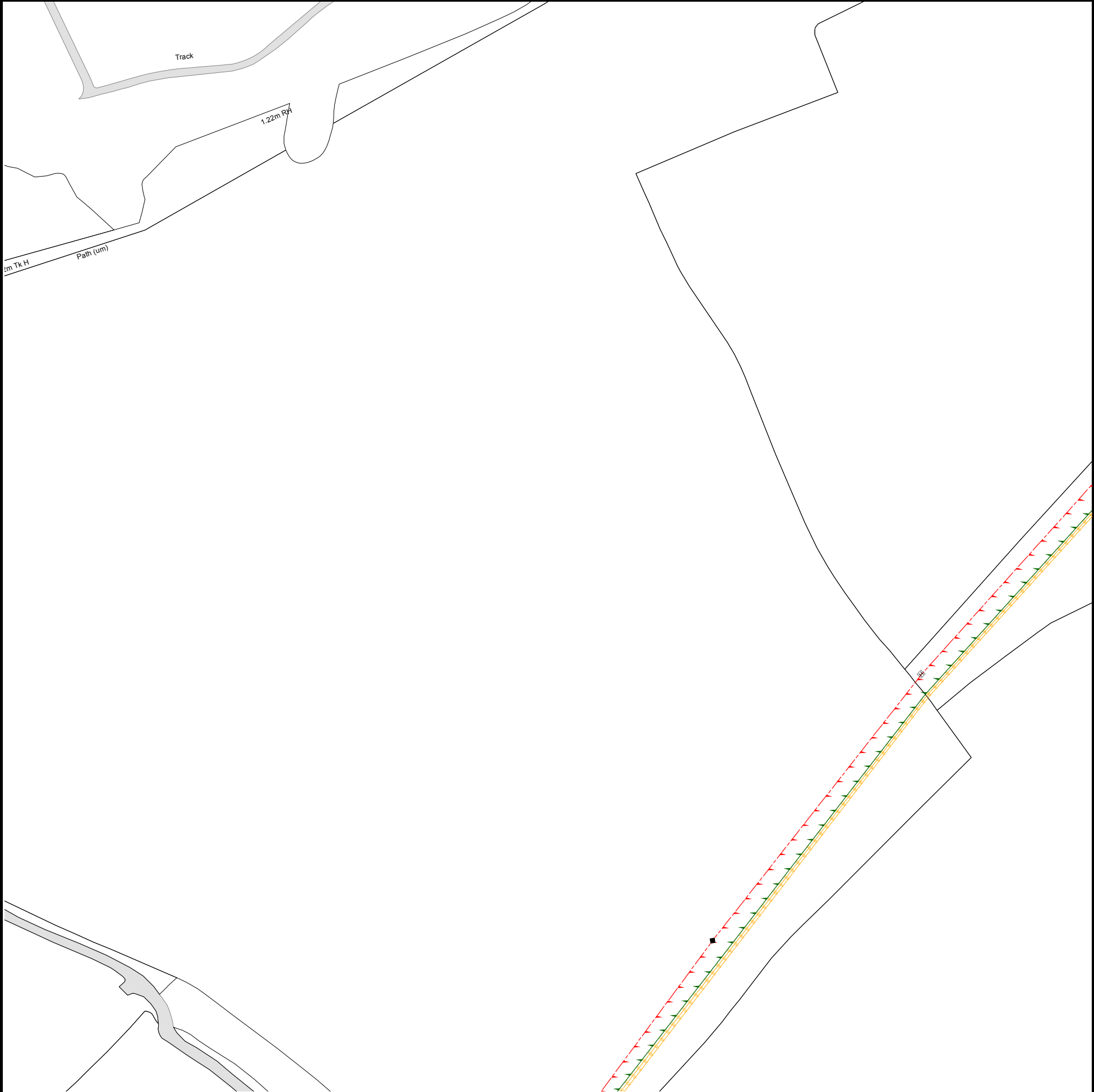
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NB. Levels quoted in metres Ordnance Newlyn Datum. The value -9999.00 indicates that no survey information is available

Manhole Reference	Manhole Cover Level	Manhole Invert Level
4902	69.52	67.73
4952	69.5	68.13
4601	68.23	66.45
461D	n/a	n/a
461C	n/a	n/a
471I	n/a	n/a
471K	n/a	n/a
471L	n/a	n/a
471M	n/a	n/a
471N	n/a	n/a
471J	n/a	n/a
4951	69.51	67.62
4901	69.48	67.36
4791	n/a	n/a
4852	69.26	67.44
4801	69.36	67.16
4851	68.19	66.5
4802	68.25	66.48
471H	n/a	n/a
The position of the apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. Service pipes are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Thames Water for any error or omission. The actual position of mains and services must be verified and established on site before any works are undertaken.		



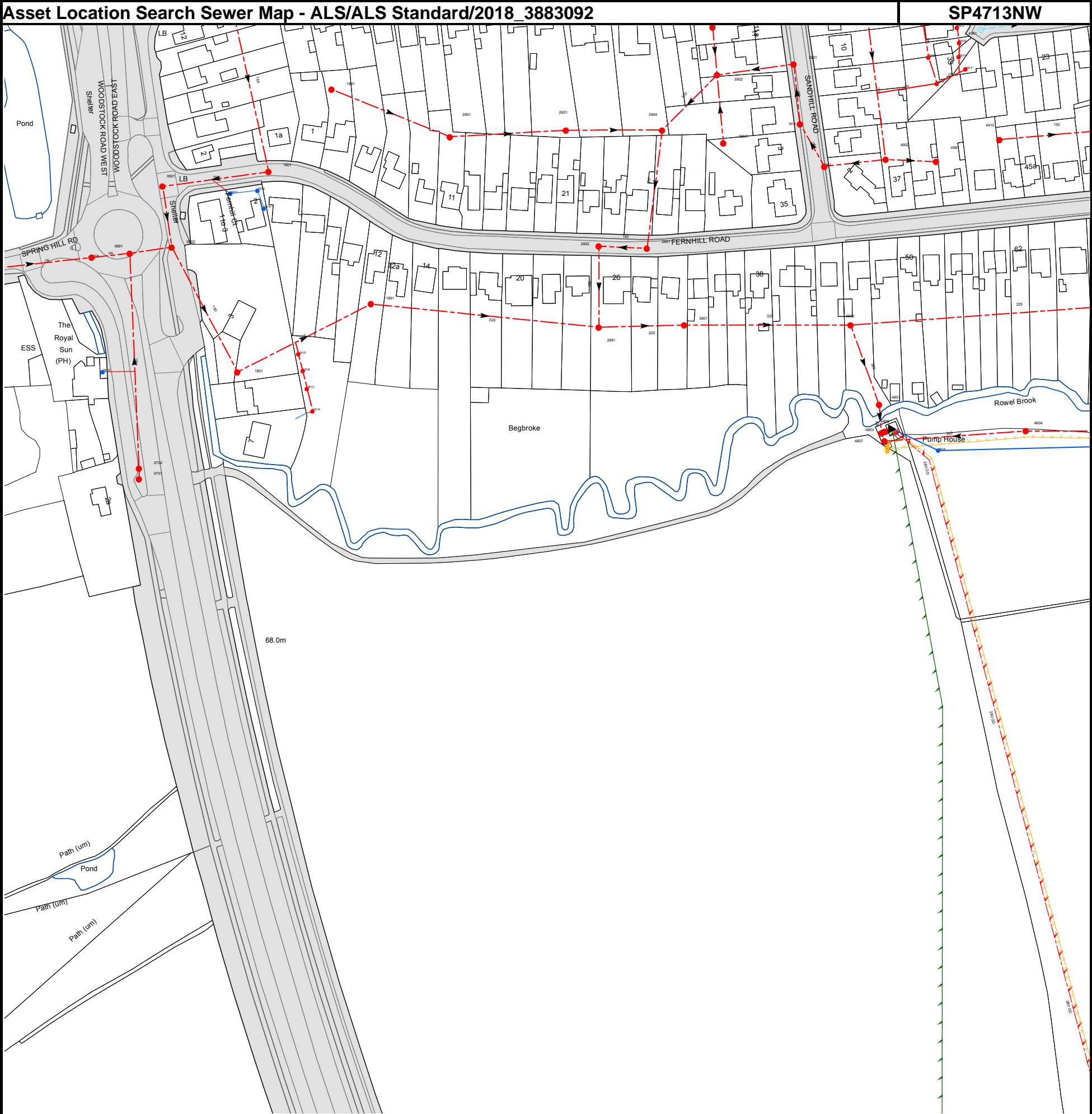
The width of the displayed area is 500m and the centre of the map is located at OS coordinates 446750,212750

The position of the apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. Service pipes are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Thames Water for any error or omission. The actual position of mains and services must be verified and established on site before any works are undertaken.

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NB. Levels quoted in metres Ordnance Newlyn Datum. The value -9999.00 indicates that no survey information is available

Manhole Reference	Manhole Cover Level	Manhole Invert Level
n/a	n/a	n/a
The position of the apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. Service pipes are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Thames Water for any error or omission. The actual position of mains and services must be verified and established on site before any works are undertaken.		



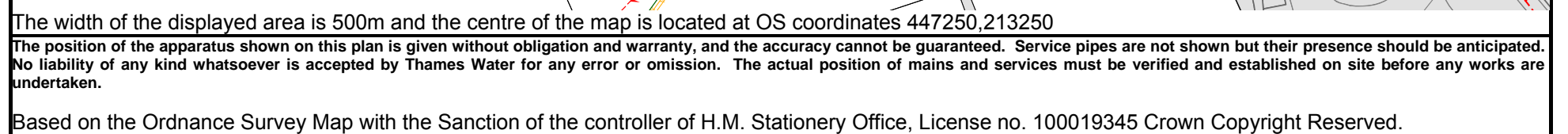
The width of the displayed area is 500m and the centre of the map is located at OS coordinates 447250,213750

The position of the apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. Service pipes are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Thames Water for any error or omission. The actual position of mains and services must be verified and established on site before any works are undertaken.

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NB. Levels quoted in metres Ordnance Newlyn Datum. The value -9999.00 indicates that no survey information is available

Manhole Reference	Manhole Cover Level	Manhole Invert Level
481A	n/a	n/a
4807	65.32	62.71
4802	65.41	62.2
4808	n/a	n/a
4804	n/a	n/a
4801	66.07	62.89
2891	n/a	n/a
3802	66.1	62.86
3801	66.21	63.64
491E	n/a	n/a
4991	n/a	n/a
491A	n/a	n/a
491C	n/a	n/a
491H	n/a	n/a
491B	n/a	n/a
491F	n/a	n/a
4951	67.1	66.16
4910	67.86	66.54
2901	67.53	65.93
2802	67.08	64.83
2801	66.8	64.93
3904	n/a	n/a
3905	n/a	n/a
3902	67.56	65.41
3993	n/a	n/a
3901	68.27	65.7
391A	n/a	n/a
3903	68.08	65.83
4902	68.21	65.9
491D	n/a	n/a
0891	n/a	n/a
0701	67.73	65.87
0702	67.64	65.84
0901	67.54	65.25
0802	67.39	65.08
191C	n/a	n/a
1801	67.35	64.68
191B	n/a	n/a
191A	n/a	n/a
1901	68.37	65.51
181D	n/a	n/a
181B	n/a	n/a
181C	n/a	n/a
181A	n/a	n/a
1991	n/a	n/a
1891	n/a	n/a
2991	n/a	n/a
081B	n/a	n/a
081A	n/a	n/a
The position of the apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. Service pipes are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Thames Water for any error or omission. The actual position of mains and services must be verified and established on site before any works are undertaken.		



NB. Levels quoted in metres Ordnance Newlyn Datum. The value -9999.00 indicates that no survey information is available

Manhole Reference	Manhole Cover Level	Manhole Invert Level
401B	n/a	n/a
401A	n/a	n/a
4002	68.18	64.64
4001	68.08	65.95
3102	68.29	66.37
3101	68.95	67.61
The position of the apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. Service pipes are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Thames Water for any error or omission. The actual position of mains and services must be verified and established on site before any works are undertaken.		

~εΕϞϙάδÜÉδ άϞά~άΆΕπι θ Έόϙ ~έδ áÜüÜÉ
ε~άÁíáϙϙNÜÉϙ ϙáíεϙάΕαϙNε sj ϙí~ίϙά~έθ
I NÜÉδ áΕάεÉκ i á ΆΕάvuvVy^R

ALS/ALS Standard/2018_3883092



u ^R Vu vUu wTu ySu
j ΕίΕάε

ϙÜÉεϙάáϙϙNÜÉϙ~έέ~έ~í έεÜϙí áϙάδÜáεά~άεÜá Έάδ áÜϙí íϙΆüÜ~ίá~áo~áϙí ~έε~áíϙϙ~áϙíÜÉϙ~Áí ε~ÁóÁ~άáϙíáΕÜÜ ~έ~áíΕΕϙϙ Έá áΕάεάΈέο~έεáϙíεÜϙí áóÁí íδÜÉáεέΈέEáAΕεÜϙí áϙAΕε~áíáέ~íΕϙδκ ϙά~ÁüóϙN~áo
ááϙí Ü~íεϙΕί Έέεε~ÁΕέíΕϙAóϙÜ~á Έέτ ~íΕάϙέ~áoδΈέεϙεϙά áεáϙásqÜÉϙ~Áí ~άεϙάáϙϙNá ~άέο~áϙεΈá áΕέá í έíóAΕδ ΈáεϙAΕNεϙέ~áo ϙάέο~έδ áϙΈá~áΕάε εϙí áóϙέóεÜÜó ΈáΈá Εϙ

<div>Scale: vWvSv</div> <div>Width: wuuā</div> <div>Printed By: p^έά ~í</div> <div>Print Date: uytvutwuvU</div> <div>Map Centre: ^^SVuypwWUS^</div> <div>Grid Reference: pm^Svbk b</div>	<div>Comments:</div>
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ALS Sewer Map Key

Public Sewer Types (Operated & Maintained by Thames Water)

	Foul: A sewer designed to convey waste water from domestic and industrial sources to a treatment works.		Trunk Foul
	Surface Water: A sewer designed to convey surface water (e.g. rain water from roofs, yards and car parks) to rivers or watercourses.		Trunk Surface Water
	Combined: A sewer designed to convey both waste water and surface water from domestic and industrial sources to a treatment works.		Trunk Combined
	Storm Relief		Bio-solids (Sludge)
	Vent Pipe		Proposed Thames Water Foul Sewer
	Proposed Thames Surface Water Sewer		Foul Rising Main
	Gallery		Combined Rising Main
	Surface Water Rising Main		Proposed Thames Water Rising Main
	Sludge Rising Main		Vacuum

Notes:

- 1) All levels associated with the plans are to Ordnance Datum Newlyn.
- 2) All measurements on the plans are metric.
- 3) Arrows (on gravity fed sewers) or flecks (on rising mains) indicate direction of flow.
- 4) Most private pipes are not shown on our plans, as in the past, this information has not been recorded.
- 5) 'na' or '0' on a manhole level indicates that data is unavailable.

Sewer Fittings

A feature in a sewer that does not affect the flow in the pipe. Example: a vent is a fitting as the function of a vent is to release excess gas.

	Air Valve
	Dam Chase
	Fitting
	Meter
	Vent Column

Operational Controls

A feature in a sewer that changes or diverts the flow in the sewer. Example: A hydrobrake limits the flow passing downstream.

	Control Valve
	Drop Pipe
	Ancillary
	Weir

End Items

End symbols appear at the start or end of a sewer pipe. Examples: an Undefined End at the start of a sewer indicates that Thames Water has no knowledge of the position of the sewer upstream of that symbol, Outfall on a surface water sewer indicates that the pipe discharges into a stream or river.

	Outfall
	Undefined End
	Inlet

Other Symbols

Symbols used on maps which do not fall under other general categories

	Public/Private Pumping Station
	Change of characteristic indicator (C.O.C.I.)
	Invert Level
	Summit

Areas

Lines denoting areas of underground surveys, etc.

	Agreement
	Operational Site
	Chamber
	Tunnel
	Conduit Bridge

Other Sewer Types (Not Operated or Maintained by Thames Water)

	Foul Sewer		Surface Water Sewer
	Combined Sewer		Gully
	Culverted Watercourse		Proposed
			Abandoned Sewer

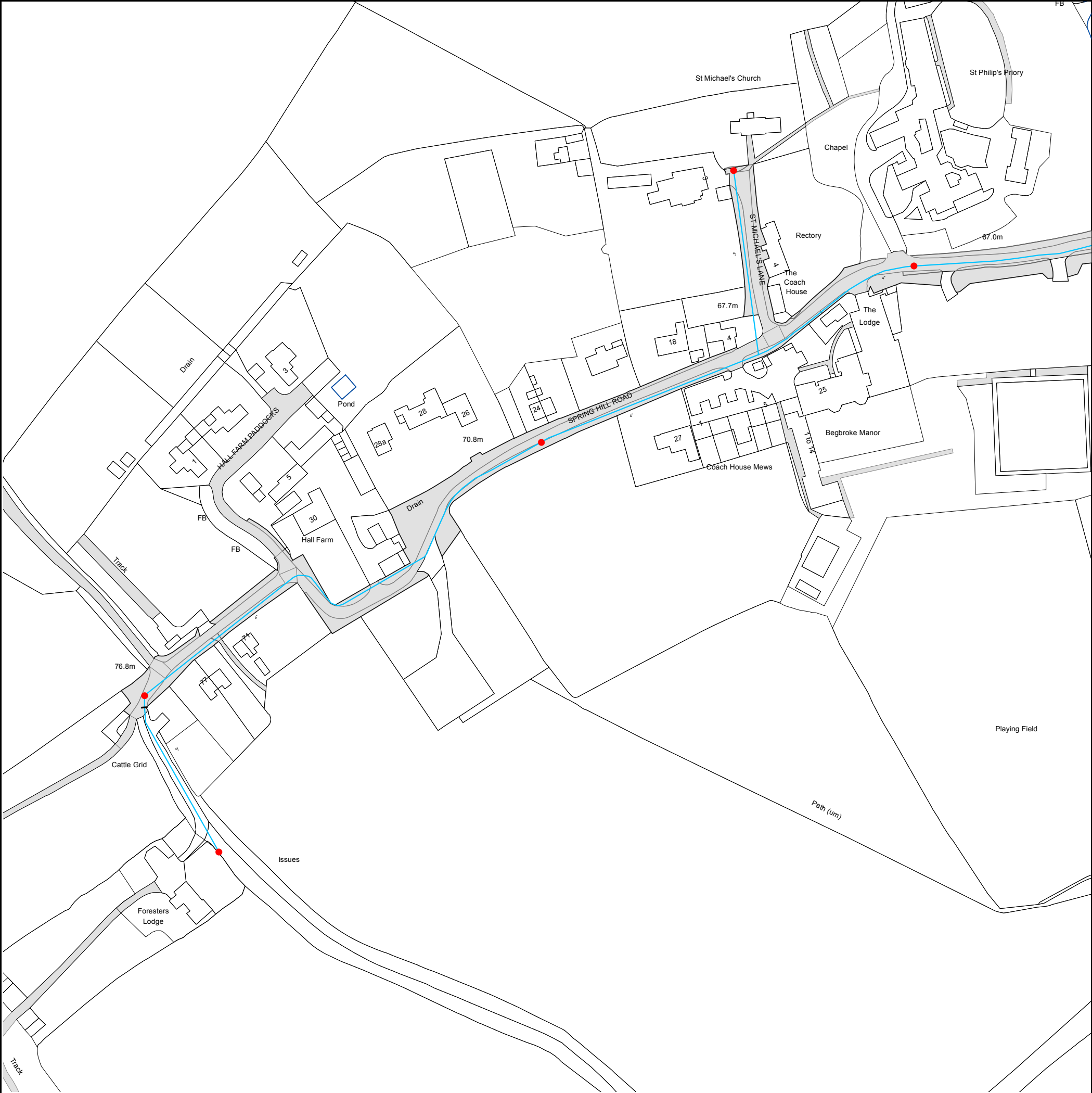
- 6) The text appearing alongside a sewer line indicates the internal diameter of the pipe in millimetres. Text next to a manhole indicates the manhole reference number and should not be taken as a measurement. If you are unsure about any text or symbology present on the plan, please contact a member of Property Insight on 0845 070 9148.



The width of the displayed area is 500m and the centre of the map is located at OS coordinates 447250,212250

The position of the apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. Service pipes are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Thames Water for any error or omission. The actual position of mains and services must be verified and established on site before any works are undertaken.

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The width of the displayed area is 500m and the centre of the map is located at OS coordinates 446750,213750

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The width of the displayed area is 500m and the centre of the map is located at OS coordinates 447250,213750

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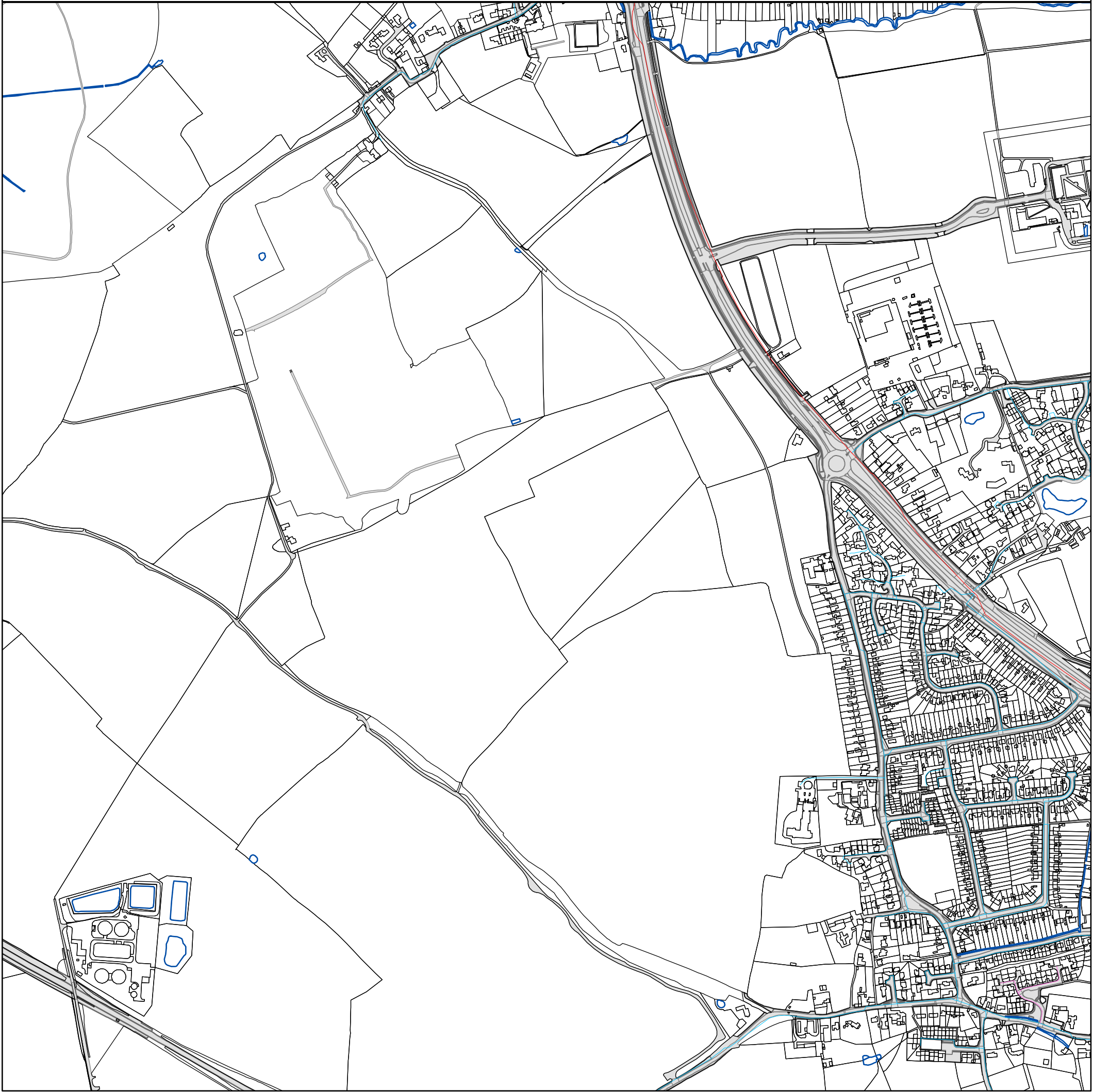
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The width of the displayed area is 500m and the centre of the map is located at OS coordinates 447250,213250

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0 45 90 180 270 360
Meters

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Scale: 1:7161
Width: 2000m
Printed By: SAsirvat
Print Date: 03/10/2018
Map Centre: 446903,212864
Grid Reference: SP4612NE

Comments:



ALS Water Map Key

Water Pipes (Operated & Maintained by Thames Water)

4"	Distribution Main: The most common pipe shown on water maps. With few exceptions, domestic connections are only made to distribution mains.
16"	Trunk Main: A main carrying water from a source of supply to a treatment plant or reservoir, or from one treatment plant or reservoir to another. Also a main transferring water in bulk to smaller water mains used for supplying individual customers.
3" SUPPLY	Supply Main: A supply main indicates that the water main is used as a supply for a single property or group of properties.
3" FIRE	Fire Main: Where a pipe is used as a fire supply, the word FIRE will be displayed along the pipe.
3" METERED	Metered Pipe: A metered main indicates that the pipe in question supplies water for a single property or group of properties and that quantity of water passing through the pipe is metered even though there may be no meter symbol shown.
	Transmission Tunnel: A very large diameter water pipe. Most tunnels are buried very deep underground. These pipes are not expected to affect the structural integrity of buildings shown on the map provided.
	Proposed Main: A main that is still in the planning stages or in the process of being laid. More details of the proposed main and its reference number are generally included near the main.

PIPE DIAMETER	DEPTH BELOW GROUND
Up to 300mm (12")	900mm (3')
300mm - 600mm (12" - 24")	1100mm (3' 8")
600mm and bigger (24" plus)	1200mm (4')

Valves

	General Purpose Valve
	Air Valve
	Pressure Control Valve
	Customer Valve

Hydrants

	Single Hydrant
--	----------------

Meters

	Meter
--	-------

End Items

Symbol indicating what happens at the end of a water main.

	Blank Flange
	Capped End
	Emptying Pit
	Undefined End
	Manifold
	Customer Supply
	Fire Supply

Operational Sites

	Booster Station
	Other
	Other (Proposed)
	Pumping Station
	Service Reservoir
	Shaft Inspection
	Treatment Works
	Unknown
	Water Tower

Other Symbols

	Data Logger
--	-------------

Other Water Pipes (Not Operated or Maintained by Thames Water)

	Other Water Company Main: Occasionally other water company water pipes may overlap the border of our clean water coverage area. These mains are denoted in purple and in most cases have the owner of the pipe displayed along them.
	Private Main: Indicates that the water main in question is not owned by Thames Water. These mains normally have text associated with them indicating the diameter and owner of the pipe.

Terms and Conditions

All sales are made in accordance with Thames Water Utilities Limited (TWUL) standard terms and conditions unless previously agreed in writing.

1. All goods remain in the property of Thames Water Utilities Ltd until full payment is received.
2. Provision of service will be in accordance with all legal requirements and published TWUL policies.
3. All invoices are strictly due for payment 14 days from due date of the invoice. Any other terms must be accepted/agreed in writing prior to provision of goods or service, or will be held to be invalid.
4. Thames Water does not accept post-dated cheques-any cheques received will be processed for payment on date of receipt.
5. In case of dispute TWUL's terms and conditions shall apply.
6. Penalty interest may be invoked by TWUL in the event of unjustifiable payment delay. Interest charges will be in line with UK Statute Law 'The Late Payment of Commercial Debts (Interest) Act 1998'.
7. Interest will be charged in line with current Court Interest Charges, if legal action is taken.
8. A charge may be made at the discretion of the company for increased administration costs.

A copy of Thames Water's standard terms and conditions are available from the Commercial Billing Team (cashoperations@thameswater.co.uk).

We publish several Codes of Practice including a guaranteed standards scheme. You can obtain copies of these leaflets by calling us on 0800 316 9800

If you are unhappy with our service you can speak to your original goods or customer service provider. If you are not satisfied with the response, your complaint will be reviewed by the Customer Services Director. You can write to her at: Thames Water Utilities Ltd. PO Box 492, Swindon, SN38 8TU.

If the Goods or Services covered by this invoice falls under the regulation of the 1991 Water Industry Act, and you remain dissatisfied you can refer your complaint to Consumer Council for Water on 0121 345 1000 or write to them at Consumer Council for Water, 1st Floor, Victoria Square House, Victoria Square, Birmingham, B2 4AJ.

Ways to pay your bill

Credit Card	BACS Payment	Telephone Banking	Cheque
Call 0845 070 9148 quoting your invoice number starting CBA or ADS / OSS	Account number 90478703 Sort code 60-00-01 A remittance advice must be sent to: Thames Water Utilities Ltd., PO Box 3189, Slough SL1 4WW. or email ps.billing@thameswater.co.uk	By calling your bank and quoting: Account number 90478703 Sort code 60-00-01 and your invoice number	Made payable to ' Thames Water Utilities Ltd ' Write your Thames Water account number on the back. Send to: Thames Water Utilities Ltd., PO Box 3189, Slough SL1 4WW or by DX to 151280 Slough 13

Thames Water Utilities Ltd Registered in England & Wales No. 2366661 Registered Office Clearwater Court, Vastern Rd, Reading, Berks, RG1 8DB.



Search Code

IMPORTANT CONSUMER PROTECTION INFORMATION

This search has been produced by Thames Water Property Searches, Clearwater Court, Vastern Road, Reading RG1 8DB, which is registered with the Property Codes Compliance Board (PCCB) as a subscriber to the Search Code. The PCCB independently monitors how registered search firms maintain compliance with the Code.

The Search Code:

- provides protection for homebuyers, sellers, estate agents, conveyancers and mortgage lenders who rely on the information included in property search reports undertaken by subscribers on residential and commercial property within the United Kingdom
- sets out minimum standards which firms compiling and selling search reports have to meet
- promotes the best practise and quality standards within the industry for the benefit of consumers and property professionals
- enables consumers and property professionals to have confidence in firms which subscribe to the code, their products and services.

By giving you this information, the search firm is confirming that they keep to the principles of the Code. This provides important protection for you.

The Code's core principles

Firms which subscribe to the Search Code will:

- display the Search Code logo prominently on their search reports
- act with integrity and carry out work with due skill, care and diligence
- at all times maintain adequate and appropriate insurance to protect consumers
- conduct business in an honest, fair and professional manner
- handle complaints speedily and fairly
- ensure that products and services comply with industry registration rules and standards and relevant laws
- monitor their compliance with the Code

Complaints

If you have a query or complaint about your search, you should raise it directly with the search firm, and if appropriate ask for any complaint to be considered under their formal internal complaints procedure. If you remain dissatisfied with the firm's final response, after your complaint has been formally considered, or if the firm has exceeded the response timescales, you may refer your complaint for consideration under The Property Ombudsman scheme (TPOs). The Ombudsman can award compensation of up to £5,000 to you if he finds that you have suffered actual loss as a result of your search provider failing to keep to the Code.

Please note that all queries or complaints regarding your search should be directed to your search provider in the first instance, not to TPOs or to the PCCB.

TPOs Contact Details

The Property Ombudsman scheme
Milford House
43-55 Milford Street
Salisbury
Wiltshire SP1 2BP
Tel: 01722 333306
Fax: 01722 332296
Email: admin@tpos.co.uk

You can get more information about the PCCB from www.propertycodes.org.uk

PLEASE ASK YOUR SEARCH PROVIDER IF YOU WOULD LIKE A COPY OF THE SEARCH CODE

Joe Shawyer

From: nrswa.uk@engie.com
Sent: 10 May 2018 10:50
To: Joe Shawyer
Subject: Automatic reply:

ENGIE

Thank you for your enquiry. This mail box is monitored daily

ENGIE owns and operates district energy networks in the following cities. In addition, ENGIE has buried pipework either inside or very close to the area codes listed below:

-
- Birmingham - B1-B9, B15-B19
- Coventry - CV1, CV2 & CV3
- Eastleigh - SO50
- Hatfield - AL10
- Leicester - LE1-LE5
- London
 - Bloomsbury - W1, WC1, WC2, NW1 & N1C
 - Olympic Site - E3, E7, E9-E11, E13, E15 & E20
 - Whitehall -SW1A, SW1E, SW1H, SW1P, SW1V & SW1Y
 - ExCel Exhibition Centre - E16
- Southampton - SO14, SO15 & SO17

Due to the volume of enquiries, ENGIE is only able to respond to enquiries which fall within the above Areas of Interest.

If your enquiry falls within these areas, ENGIE will Respond with a further email containing details of buried assets which may or may not affect your work.

However, if no Response is forthcoming please take this automated reply as evidence that ENGIE have no assets within the areas. In accordance with the NRSWA 1991 legislation, please allow 10 days a response, otherwise after this time it is deemed that ENGIE have no assets in the area enquired.

If you have any further questions or enquiries please email doccontrol@engie.com

ENGIE Document Control

Urban Energy
UK & Ireland
NRSWA.UK@engie.com

Cofely GDF SUEZ is now ENGIE
engie.co.uk

Kings Yard,
1 Waterden Road,
Queen Elizabeth Olympic Park
London E15 2GP - UK

Debbie Miller

From: Bowsher, David - Communities <david.bowsher@oxfordshire.gov.uk>
Sent: 02 October 2018 14:22
To: Debbie Miller
Subject: RE: URGENT ASAP - Ref: 22630DM - Site : Land near Yarnton, Oxfordshire, OX5 1QD
Attachments: yarnton plant 1.pdf; yarnton plant 2.pdf; yarnton plant 3.pdf; yarnton plant 4.pdf; yarnton plant 5.pdf

Debbie good afternoon

Plant maps enclosed

All Oxfordshire County Council street lighting plant is shown on your map – that is columns,
bollards & illuminated signs (if applicable other areas not shown on your map we have NO plant)
When the cables are shown they are owned by Oxfordshire County Council
When the cables are not shown they are owned by Scottish & Southern Plc

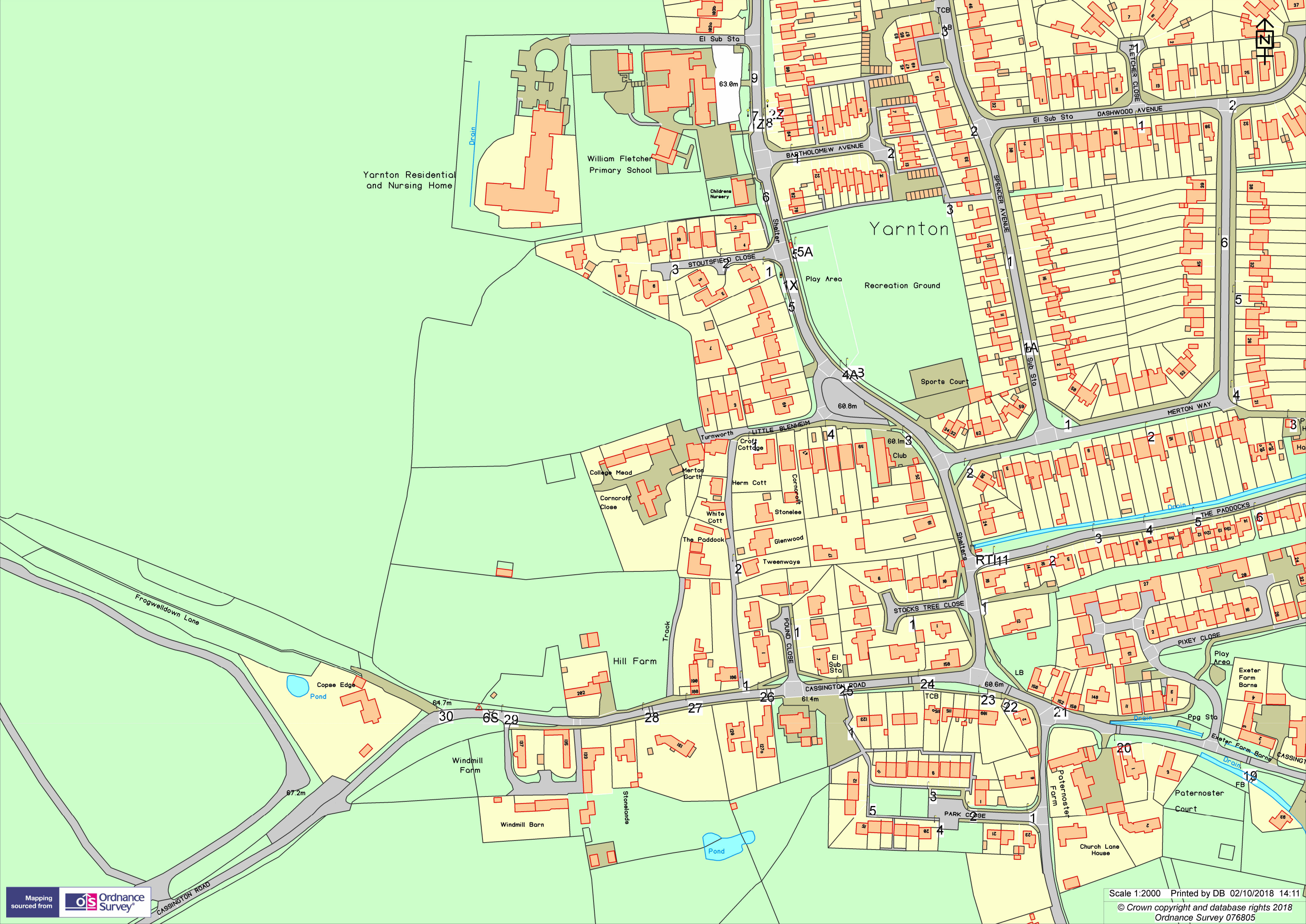
David

David.Bowsher
Technical Assistant
Street Lighting
Oxfordshire County Council
County Hall
New Road
Oxford
OX1 1ND
[Tel:- 01865 -810453](tel:01865-810453)
Fax:- 01865 810463

From: Smith, Karen - Communities **On Behalf Of** Street Lighting - E&E
Sent: 02 October 2018 11:34
To: Bowsher, David - Communities <david.bowsher@oxfordshire.gov.uk>
Subject: FW: URGENT ASAP - Ref: 22630DM - Site : Land near Yarnton, Oxfordshire, OX5 1QD

Karen

Karen Smith
Officer (Contract Management)
Oxfordshire County Council
Infrastructure and Delivery - Communities
County Hall
New Road



Yarnton Residential
and Nursing Home

William Fletcher
Primary School

Yarnton

Recreation Ground

Hill Farm

Windmill
Farm

Windmill Barn

Church Lane
House

Paternoster
Court

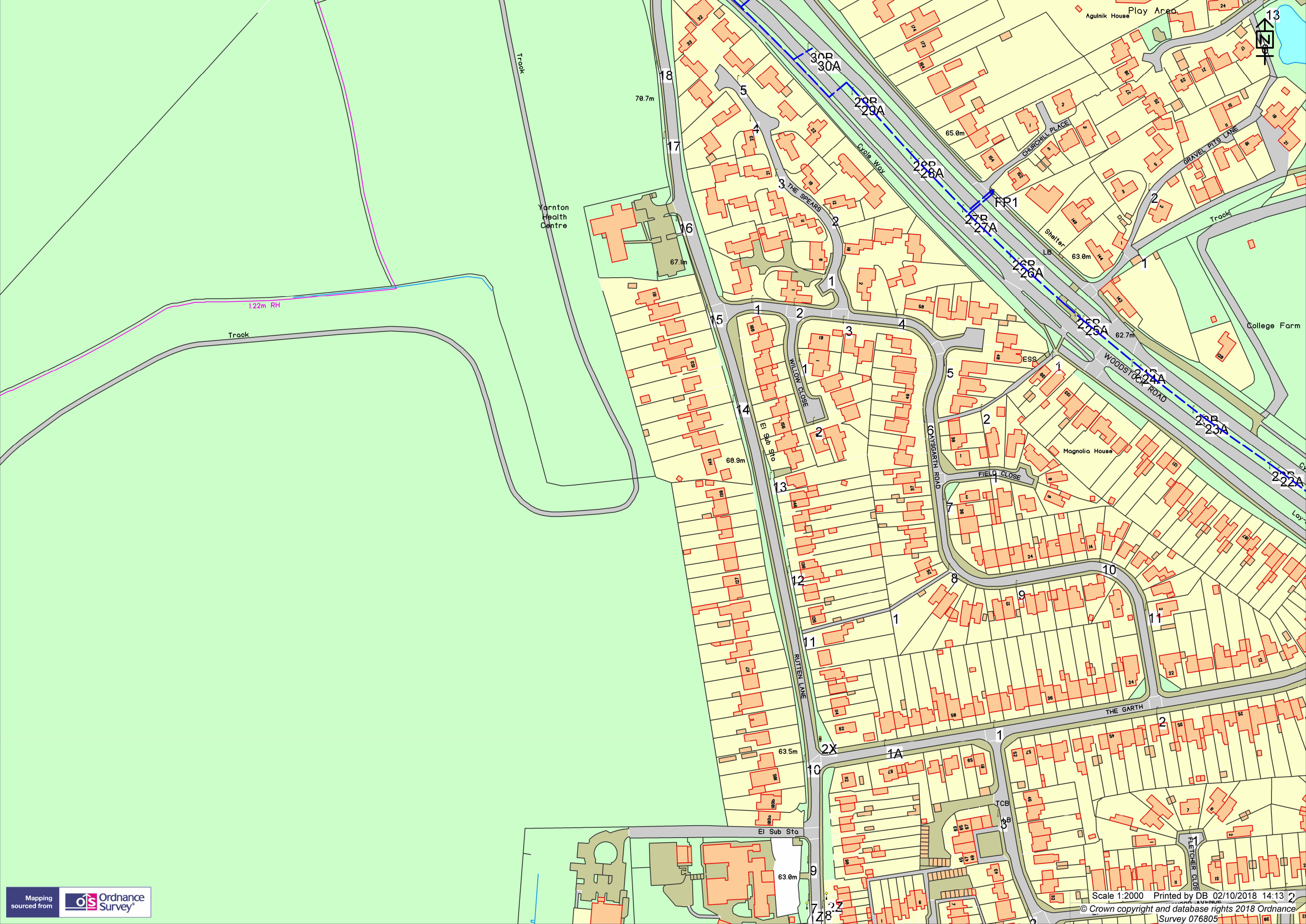
Exeter Farm
Barns

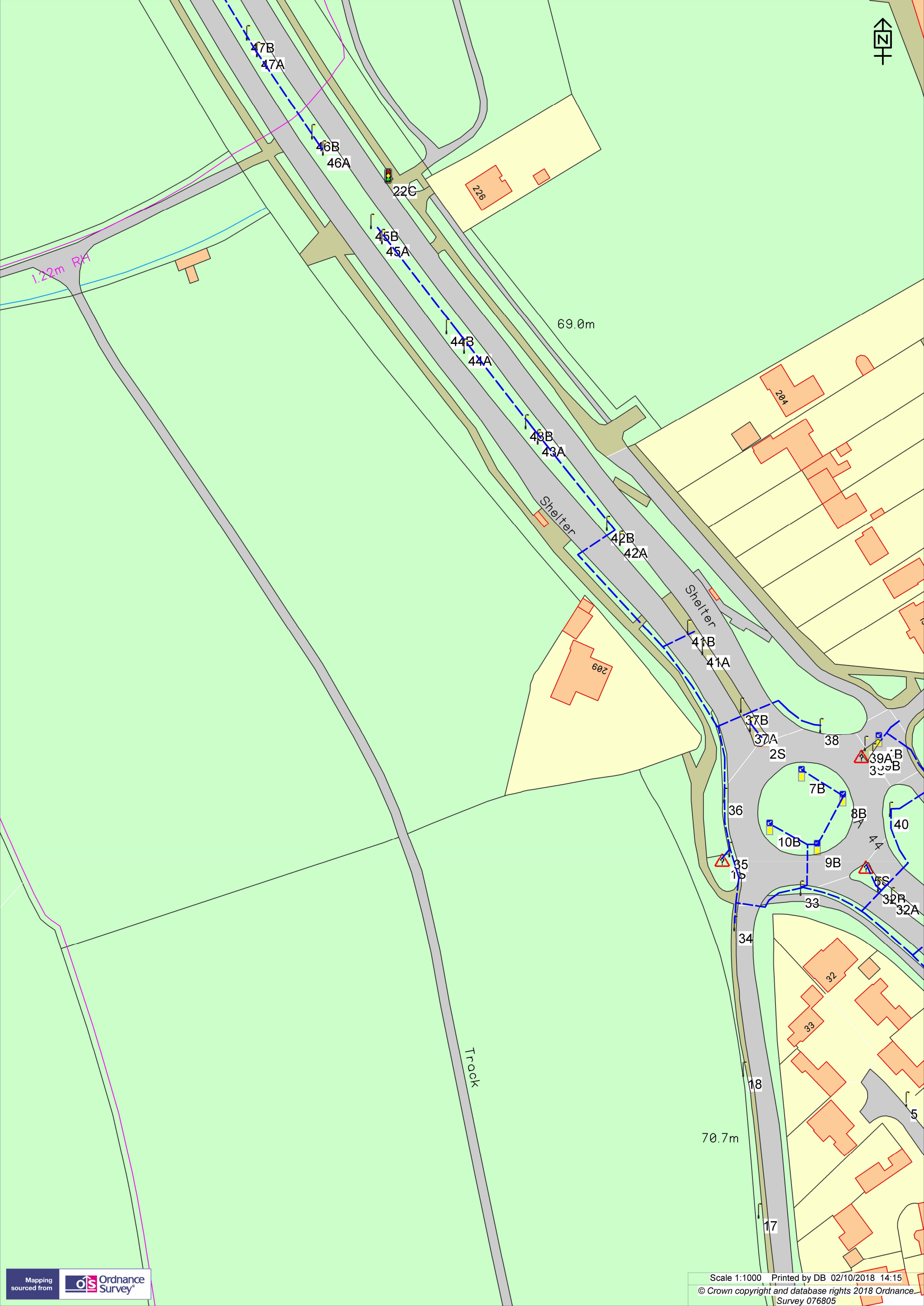
Exeter Farm
Barns

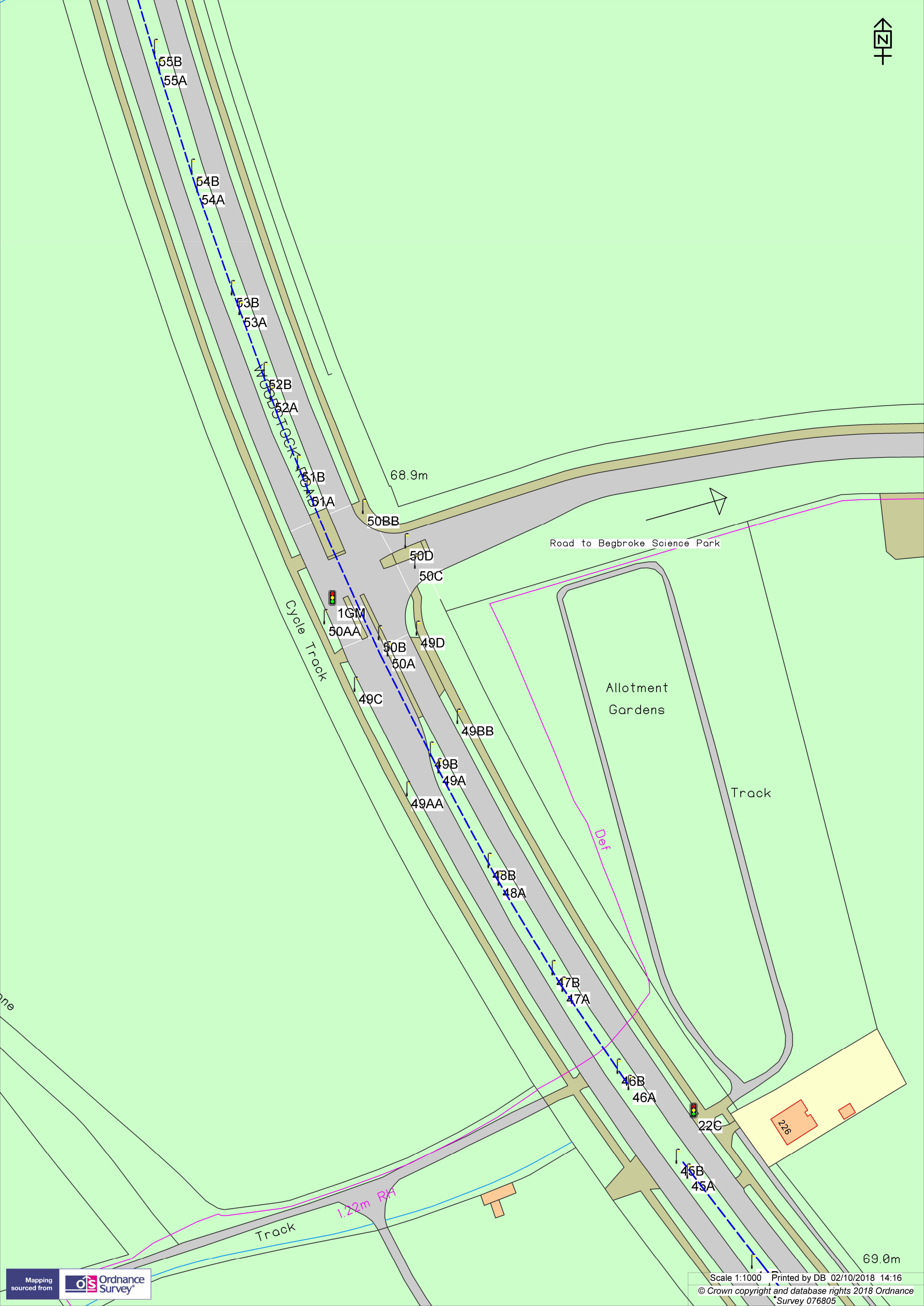
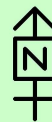
Exeter Farm
Barns

Exeter Farm
Barns

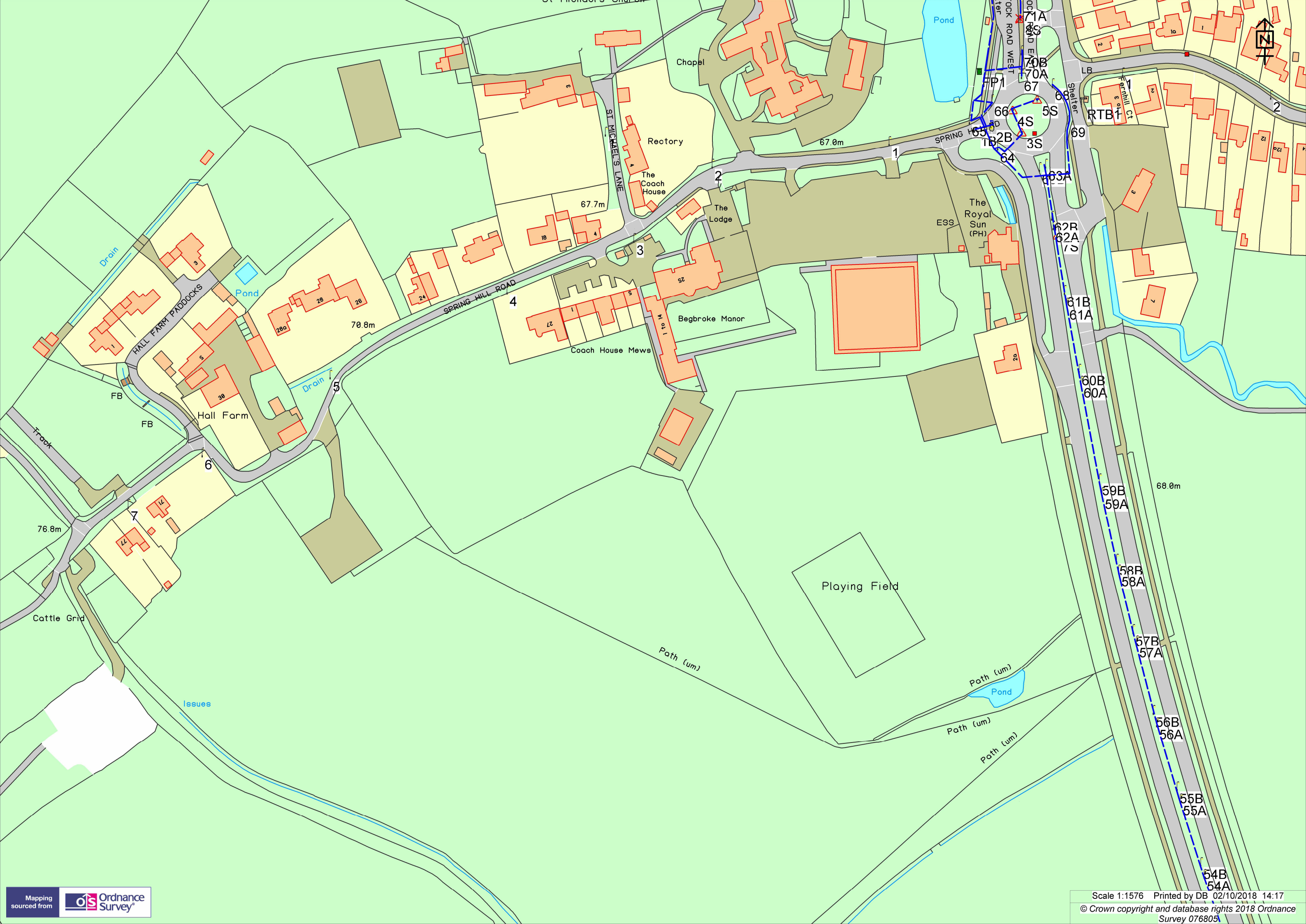
Exeter Farm
Barns







one



GROUNDWISE

Groundwise Searches Ltd

Terms & Conditions

1. Definitions

"Client" means any company or other person or body placing an Order with Groundwise;
"Equipment" means pipes wires cables and other plant or equipment;
"Fee" means in relation to a Site of an area not exceeding the Standard Maximum Area the fee for carrying out a Search identified either on Groundwise website (where an Order is placed through the website) or on the Order Form where an Order is placed using an Order Form plus Value Added Tax and in relation to a Site of an area exceeding the Standard Maximum Area shall be such sum as shall be agreed between Groundwise and a Client plus Value Added Tax;
"Groundwise" means Groundwise Searches Limited;
"Order" means an order by a Client from Groundwise for the provision of a Search whether placed electronically through Groundwise's website or in paper form using an Order Form;
"Order Form" means Groundwise's current standard Utility Searches Order Form for placing an order for a Search in hard copy;
"Report" means a written report in hard copy provided by Groundwise to a Client in response to an Order reflecting the results of Groundwise's enquiries of Utility Companies made on or before the date of the Report;
"Search" means making enquiries of the Utility Companies likely to have utilised or operated Equipment on a Site, as to the location of any Equipment on that Site following acceptance by Groundwise of an Order, and providing the Client with a Report;
"Site" means a site identified on a plan submitted with an Order which in relation to any Order placed electronically shall not exceed the Standard Maximum Area;
"Standard Maximum Area" means an area no greater than 15 hectares or of a length no greater than one kilometre and a width no greater than two hundred metres;
"Terms of an Order" means in the case of an Order placed electronically the information requested from a Client relating to a Site, the provisions relating to the method of payment, the information contained in or accessed through the tabs appearing on an Order Summary and all other applicable information contained in Groundwise's website and in the case of an Order placed in hard copy means the provisions of a completed Order Form.

2. Agreement

2.1 The Terms of an Order together with these Terms and Conditions constitute the terms of a contract ("Contract") between Groundwise and a Client for the carrying out of a Search.
2.2 A Contract shall come into effect when Groundwise notifies a Client that it has accepted an Order. Where such notification is by email it shall be deemed to have occurred as soon as Groundwise has sent the email to the Client, where such notification is by letter, upon the posting of the letter to the Client, or where there is a verbal acceptance when Groundwise verbally confirms acceptance of an Order to the Client.

3. Payment and Refunds

3.1 Other than in the case of Clients who have set up an account with Groundwise, when placing an Order a Client shall provide Groundwise with credit card details sufficient to enable Groundwise to debit that credit card with the Fee and by such notification and subject to accepting the relevant Order Groundwise is authorised to debit that credit card with the Fee.
3.2 In the case of Clients who have an account with Groundwise the Fee shall be paid within 28 days of the acceptance of an Order by Groundwise.
3.3 Groundwise shall be entitled to terminate any account set up with it by a Client any time without notice and to require payment in accordance with paragraph 3.1.
3.4 Where a Client cancels an Order :
3.4.1 within three hours of that Order being accepted by Groundwise, Groundwise shall promptly refund the Fee paid plus Value Added Tax in full, or where no fee has been paid no fee shall be payable;
3.4.2 within three days but after the elapse of three hours of an Order being accepted by Groundwise, Groundwise shall promptly refund 50% of the Fee paid plus Value Added Tax or where no fee has been paid 50% of the fee plus Value Added Tax shall be payable and in either such case following such reimbursement or where no payment has been made upon making any payment due the relevant Contract shall terminate without further liability on the part of Groundwise or of the Client.

4. Limitation of Liability

4.1 Groundwise shall use its reasonable endeavours to provide a Search within the period referred to in the Order and shall not be liable for any delay arising because of any act omission or delay of any Utility Company.
4.2 Without limiting the liability of Groundwise in the case of death or personal injury Groundwise shall have no liability to a Client:
4.2.1 for the information contained in a Report to the extent that any errors or omissions reflect the errors or omissions of a Utility Company in providing or omitting to provide information to Groundwise and to the extent that that Utility Company has no liability to Groundwise in relation to the provision of such information, or the omission to provide relevant information;
4.2.2 In relation to any Report for loss or damage arising in relation to loss of profits, loss of business, loss of use, or any special indirect consequential or pure economic loss, costs, damages, charges or expenses and subject as earlier provided Groundwise's total liability in contract, tort (including negligence or breach of statutory duty), misrepresentation restitution or otherwise in relation to the performance or contemplated performance of the Services shall be limited £5,000,000.00.
4.2.3 In the absence of express written agreement to the contrary, Groundwise shall have no liability to any third party for any errors or omissions contained in or omitted from a Report.

5. Copyright

5.1 The copyright in the Report is the property of Groundwise and the Report may not be copied or reproduced in whole or in part nor communicated or divulged to any third party without the prior written consent of Groundwise save as set out below.
5.2 The Report may, without further charge, be made available to the owner of the Site at the date of the Report, their agents, consultants and professional advisors, any person who purchases the whole of the Site, any person who provides funding secured on the whole of the Site, and prospective buyers of the Site, and any of their respective agents, consultants and professional advisers. The Report may also be published on a local authority planning portal in relation to a proposed development of the site.
5.3 The provisions concerning liability in Clause 4 shall apply to any of the third parties mentioned above in the same manner as they do to the Client.

6. Data Protection

In processing any personal data received from a Client or potential Client, Groundwise will comply with its privacy policy a copy of which can be viewed at [address] on its website.

7. Force Majeure

Groundwise will have no liability to the Client if it is prevented from or delayed in performing its obligations under a Contract by acts events omissions or accidents beyond its reasonable control, including strikes, lock-outs and other industrial disputes, failure of a utility service or transport network, act of God, war, riot, civil commotion, malicious damage, compliance with any law or governmental order rule regulation or direction, accident, breakdown of plant or machinery, fire, flood, storm or default of suppliers or sub-contractors.

8. Severance

8.1 If any provision or part of any provision in these terms and conditions or of any Contract is found by any court or administrative body of competent jurisdiction to be invalid, unenforceable or illegal, the other provisions will remain force.
8.2 If any invalid, unenforceable or illegal provision would be valid, enforceable or legal if some of it were deleted that provision will apply with whatever modification is necessary to make it valid, enforceable and legal.
8.3 The parties agree, in the circumstances referred to in paragraph 8.1 above to attempt to substitute for any invalid, unenforceable or illegal provision a valid, enforceable and legal provision which achieves to the greatest extent possible the same effect as would have been achieved by the invalid, unenforceable or illegal provision.

9. Status of Pre-Contractual Statements

Each of the parties acknowledges and agrees that in entering into a Contract it does not rely on any undertaking, promise, assurance, statement, representation, warranty or understanding (whether in writing or not) of any person (whether party to these terms and conditions or not) relating to the subject matter of a Contract, provided that without prejudice to the generality of the foregoing, any revision to the Terms and Conditions agreed in writing by Groundwise and a Client or a potential Client (including any express written agreement relating to the assignment of copyright or licensing of all or part of the contents of a Report) shall apply to the Contract to which it has been agreed that it will apply.

10. Assignment

A Client shall not, without the prior written consent of Groundwise, assign transfer charge sub-contract or deal in any other matter with any of its rights under a Contract.

11. Third Party Rights

For the purposes of the Contracts (Rights of Third Parties) Act 1999 it is not intended that the rights of either of the parties shall be contractually enforceable by any third party.

12. Governing Law and Jurisdiction

These terms and conditions and any Contract are governing by and construed in accordance with the laws of England and Wales and the parties irrevocably agree that the courts of England and Wales shall have non-exclusive jurisdiction to settle any dispute or claim that arises out of or in connection with these terms and conditions or any Contract



Appendix C – Correspondence



Mr Shaun Letchford

Abley Letchford Partnership Ltd

3 Tealgate,
Charnham Park,
Hungerford,
Berkshire,
RG17 0YT

**Wastewater
pre-planning**



Our ref **DS6075879**

10 September 2020

Pre-planning enquiry: Capacity concerns

Site: PR9, Land West of Yarnton, Woodstock Road, Yarnton, Oxfordshire–OX5 1LT

- Proposed site: Housing units (600 units)
- Proposed foul water discharge by gravity based on following options;
 - a) Option 1: 230 units into MH4002, 250 units into MH3102 & 120 units into MH0701
OR
 - b) Option 2: 270 units into MH4002, 210 units into MH5401 & 120 units into MH0701.

Dear Shaun,

Thank you for providing information on your development.

We're pleased to confirm that based on your delivery programme, we will provide sufficient foul water capacity in our sewerage network to serve **first 150 residential units**, but unfortunately, we're unable to meet the needs of your full development at this time.

Your delivery programme on which this conclusion was based on is as follows:

Phases	Development parameters	Construction Dates (proposed)
	-	Q3 2021
Phase 1	150 dwellings	Q3 2021 to Q3 2022
Phase 2	150 dwellings	Q3 2022 to Q3 2023
Phase 3	150 dwellings	Q3 2023 to Q3 2024
Phase 4	150 dwellings	Q3 2024 to Q3 2025

In order to ensure we make the appropriate upgrades – or 'off-site reinforcement' – to serve the remainder of your development, we'll need to carry out modelling work, design a solution and build the necessary improvements. This work is done at our cost.

Once we've begun modelling, we may need to contact you to discuss changing the connection point for capacity reasons. Please note that we'll pay the cost of covering any extra distance if the connection needs to be made at a point further away than the nearest practicable point of at least the same diameter.

How long could modelling and reinforcement take?

Typical timescales for a development of your size are:

Modelling: **6 months**
Design: **6 months**
Construction: **6 months**
Total: **18 months**

What do you need to tell us before we start modelling?

We will only carry out modelling once we're confident that your development will proceed. In order to have this confidence, we'll need to know that you **own the land and have either outline or full planning permission**. Please email this information to us as soon as you have it.

What do I need to do next?

If you've satisfied the points above, then you should compare your own timeline with the typical timescales we've suggested for our activities. If the time you're likely to take from planning and construction through to first occupancy is **more** than the total time we're likely to take, we'll be able to carry out the necessary upgrades in time for your development.

Please notify us once planning has been both submitted to, and granted by, the Local Planning Authority.

If you've any further questions, please contact me on 07747647155.

Many Thanks

Kind Regards

Zaid Kazi

Project Engineer

Developer Services – Major Projects



Your reference: DS6075970

Your site address: Woodstock Road, land west of Yarnton, Yarnton OX5 1LT

Customer: Abley Letchford Partnership Ltd

Clean water capacity report

Status: Capacity concerns

Date: 03 August 2020

Validity: Valid until 02 August 2021 or for the duration of your Local Authority planning permission when this report is used to support your application.

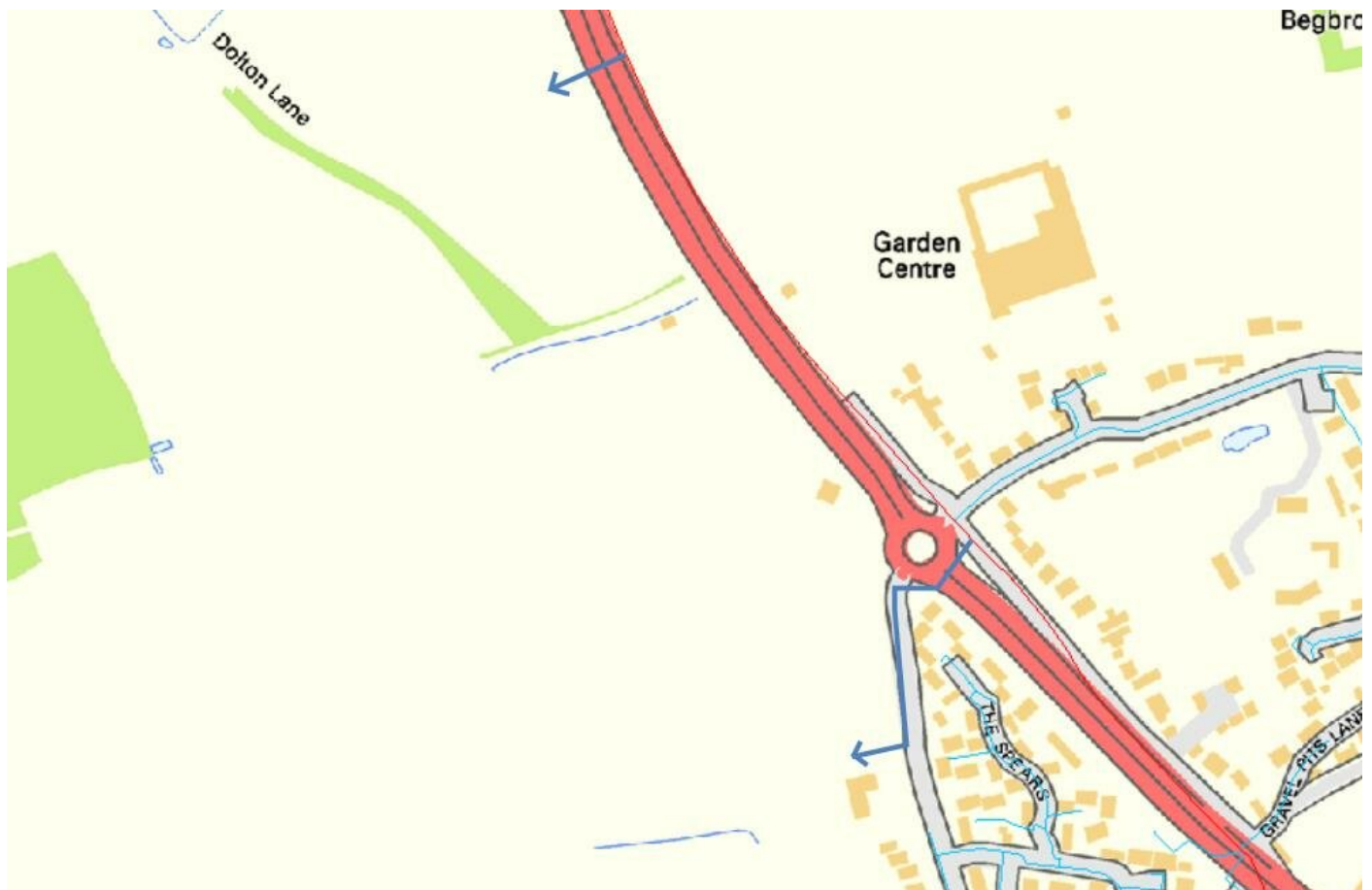
We confirm that there will be sufficient capacity in our clean water network to serve the first 50 residential properties of your development.

However, we're unable to confirm capacity for your whole development without further investigation. How to make a request for us to progress with network modelling activity is listed in the accompanying email.

Please be aware that this report is based upon the details and drawings provided. If there are any subsequent changes to these, then the contents of this report will become invalid and a new assessment will be needed.

Please note that the below POC is based on desktop study and it might change after capacity check study or site-specific survey.

Nearest points of connection





Contaminated land

If your site is on contaminated land, any new water pipes laid should be barrier pipe which is more expensive. If you think this is not the case you will need to provide a soil report when applying for new mains and services.

Building near our assets

Please [read our guide](#) 'working near our assets' to ensure your workings will be in line with the necessary processes you need to follow if you're considering working above or near our pipes or other structures. Should you require further information please contact [us](#).

Diversions

From our records we don't anticipate that any clean water assets need to be diverted to accommodate your proposals.

Building water

It's important that you apply for a building water supply before you start using water on site even if you believe your supply is already metered. We need to ensure your account is properly set up and you have the correct meter for your supply or fines may be imposed. Apply [here](#).

Fire hydrant and sprinkler demand

Please note that we cannot confirm whether a fire hydrant or sprinkler demand can be accommodated on a new connection. You'll need to contact an independent consultant or specialist company for hydrant testing for fire-fighting purposes. Valve operations must be carried out by our Network Service Technician which can be booked on 0800 316 9800.

Asset location search

If you need help in identifying the location of existing water mains and sewers, you can get this information from any property search provider. We have a Property Searches team who will carry out an asset location search, which provides information on the location of known Thames Water clean and/or wastewater assets, including details of pipe sizes, direction of flow and depth (for which a fee is payable). You can find out more [online](#) or by calling us on 0845 070 9148.

2 September 2020

Our Ref: 2057943

Your Ref:

SGN Connections
St Lawrence House
Station Approach
Horley
Surrey
RH6 9HJ

Jonathan Shuttleworth
ALP
3 Tealgate
HUNGERFORD
Berkshire
RG17 0YT

Dear Jonathan Shuttleworth,

New Development@ PR9, Begbroke, KIDLINGTON, Oxfordshire. OX5 1FW

Thank you for choosing us to give you a budget indication for 580x new connections at the above site, and please find our detailed quote below.

Work to be carried out

SGN Connections to install appropriately sized gas infrastructure to 580x suitable locations.
SGN to carry out all the necessary excavation and reinstatement of the trenches up to the site boundary.
No meter or meter works are included in this quotation.

Your budget indication is £ 411,800.00 (inc VAT)

Please note that this figure is a budget indication only, it is based upon an hourly load of 34,800.00 kW and an annual quantity of 11,948,000.00 Kwh along with any other information you've given us, and doesn't represent an offer to carry out the work.

We won't be able to give you a more accurate quote until a full design study has been carried out, and there's a charge for this. We'll be able to tell you how much the study will be once you ask us for a firm quote.

'Please note that this budget indication does not include any costs for traffic management, road closures, permits or specialist road works that may be required. Upon request of a firm application this will be investigated fully.'

Please note that this budget indication doesn't allow for any diversion of our existing infrastructure if we find it's necessary. You can get further detail on this by calling our customer service line on the number at the top of this page and asking to speak with the Mains Diversions and Isolations team.

If you have any further questions, please feel free to contact me by calling our customer service team on the number at the top of this letter and asking to speak with the undersigned.

Yours sincerely

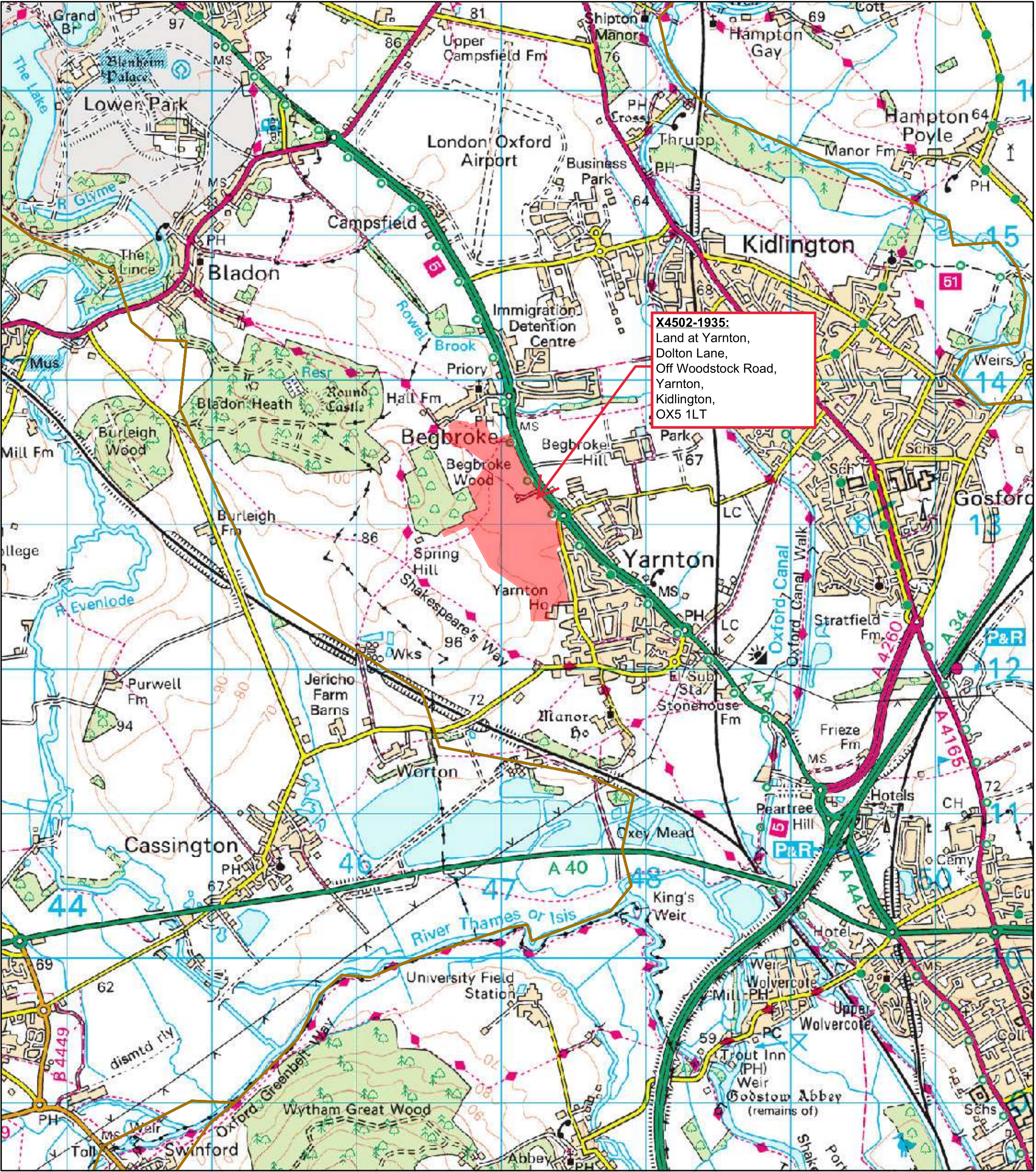
Bryan Maw
Technical Assistant

* All calls are recorded and may be monitored

development planning
infrastructure design
transport HIGHWAYS
drainage
CIVIL ENGINEERING
site appraisal
flood risk assessment
travel plans
masterplanning



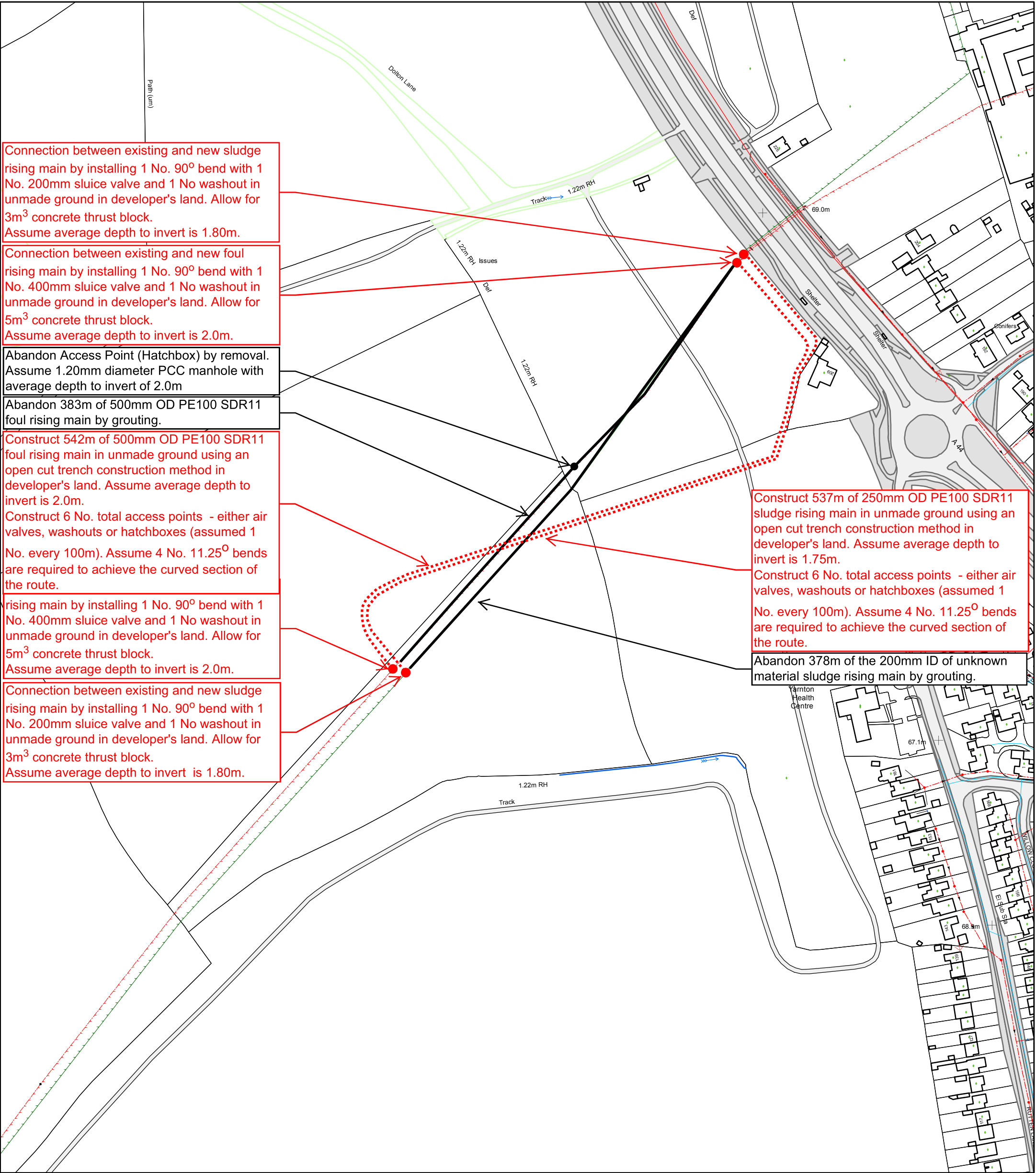
Appendix C Thames Water Diversion Proposals



0 290 580 1,160 1,740 2,320 Metres

The position of any boundary or apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. No liability of any kind whatsoever is accepted by Thames Water for any error or omission.

Printed At (A3) : 1:25000
Printed By : IANTONAK
Print Date : 21/07/2022
Map Centered On : 447108,212571
Grid Reference : SP4712



Connection between existing and new sludge rising main by installing 1 No. 90° bend with 1 No. 200mm sluice valve and 1 No washout in unmade ground in developer's land. Allow for 3m³ concrete thrust block. Assume average depth to invert is 1.80m.

Connection between existing and new foul rising main by installing 1 No. 90° bend with 1 No. 400mm sluice valve and 1 No washout in unmade ground in developer's land. Allow for 5m³ concrete thrust block. Assume average depth to invert is 2.0m.

Abandon Access Point (Hatchbox) by removal. Assume 1.20mm diameter PCC manhole with average depth to invert of 2.0m

Abandon 383m of 500mm OD PE100 SDR11 foul rising main by grouting.

Construct 542m of 500mm OD PE100 SDR11 foul rising main in unmade ground using an open cut trench construction method in developer's land. Assume average depth to invert is 2.0m.

Construct 6 No. total access points - either air valves, washouts or hatchboxes (assumed 1 No. every 100m). Assume 4 No. 11.25° bends are required to achieve the curved section of the route.

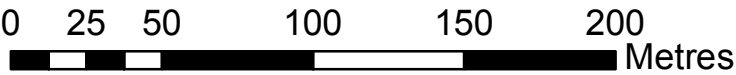
rising main by installing 1 No. 90° bend with 1 No. 400mm sluice valve and 1 No washout in unmade ground in developer's land. Allow for 5m³ concrete thrust block. Assume average depth to invert is 2.0m.

Connection between existing and new sludge rising main by installing 1 No. 90° bend with 1 No. 200mm sluice valve and 1 No washout in unmade ground in developer's land. Allow for 3m³ concrete thrust block. Assume average depth to invert is 1.80m.

Construct 537m of 250mm OD PE100 SDR11 sludge rising main in unmade ground using an open cut trench construction method in developer's land. Assume average depth to invert is 1.75m.

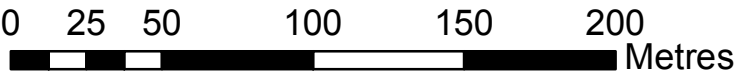
Construct 6 No. total access points - either air valves, washouts or hatchboxes (assumed 1 No. every 100m). Assume 4 No. 11.25° bends are required to achieve the curved section of the route.

Abandon 378m of the 200mm ID of unknown material sludge rising main by grouting.



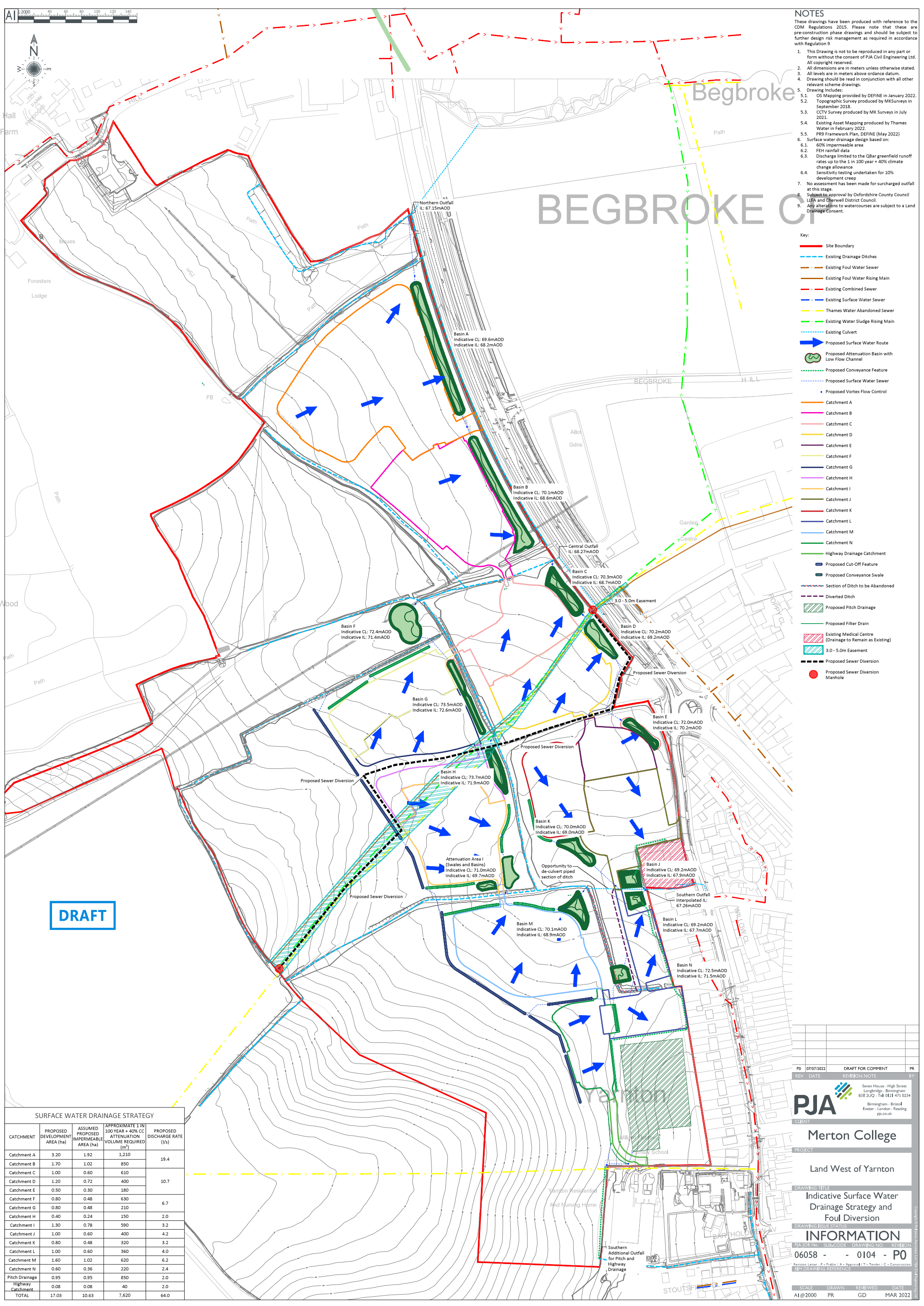
The position of any boundary or apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. No liability of any kind whatsoever is accepted by Thames Water for any error or omission.

Printed At (A3) : 1:2500
Printed By : IANTONAK
Print Date : 21/07/2022
Map Centered On : 447153,212913
Grid Reference : SP4712



The position of any boundary or apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. No liability of any kind whatsoever is accepted by Thames Water for any error or omission.

Printed At (A3) : 1:2500
Printed By : IANTONAK
Print Date : 21/07/2022
Map Centered On : 447153,212913
Grid Reference : SP4712



- NOTES**
- These drawings have been produced with reference to the CDM Regulations 2015. Please note that these are pre-construction phase drawings and should be subject to further design risk management as required in accordance with Regulation 9
- This Drawing is not to be reproduced in any part or form without the consent of PJA Civil Engineering Ltd. All copyright reserved.
 - All dimensions are in meters unless otherwise stated.
 - All levels are in meters above ordance datum.
 - Drawing should be read in conjunction with all other relevant scheme drawings.
 - Drawing Includes:
 - OS Mapping provided by DEFINE in January 2022.
 - Topographic Survey produced by MK Surveys in September 2018.
 - CCTV Survey produced by MK Surveys in July 2021.
 - Existing Asset Mapping produced by Thames Water in February 2022.
 - PR9 Framework Plan, DEFINE (May 2022)
 - Surface water drainage design based on:
 - 60% impermeable area
 - FEH rainfall data
 - Discharge limited to the QBar greenfield runoff rates up to the 1 in 100 year + 40% climate change allowanceSensitivity testing undertaken for 10% development creep
 - No assessment has been made for surcharged outfall at this stage.
 - Subject to approval by Oxfordshire County Council LLEA and Cherwell District Council.
 - Any alterations to watercourses are subject to a Land Drainage Consent.

- Key:**
- Site Boundary
 - Existing Drainage Ditches
 - Existing Foul Water Sewer
 - Existing Foul Water Rising Main
 - Existing Combined Sewer
 - Existing Surface Water Sewer
 - Thames Water Abandoned Sewer
 - Existing Water Sludge Rising Main
 - Existing Culvert
 - Proposed Surface Water Route
 - Proposed Attenuation Basin with Low Flow Channel
 - Proposed Conveyance Feature
 - Proposed Surface Water Sewer
 - Proposed Vortex Flow Control
 - Catchment A
 - Catchment B
 - Catchment C
 - Catchment D
 - Catchment E
 - Catchment F
 - Catchment G
 - Catchment H
 - Catchment I
 - Catchment J
 - Catchment K
 - Catchment L
 - Catchment M
 - Catchment N
 - Highway Drainage Catchment
 - Proposed Cut-Off Feature
 - Proposed Conveyance Swale
 - Section of Ditch to be Abandoned
 - Diverted Ditch
 - Proposed Pitch Drainage
 - Proposed Filter Drain
 - Existing Medical Centre (Drainage to Remain as Existing)
 - 3.0 - 5.0m Easement
 - Proposed Sewer Diversion
 - Proposed Sewer Diversion Manhole

DRAFT

SURFACE WATER DRAINAGE STRATEGY				
CATCHMENT	PROPOSED DEVELOPMENT AREA (ha)	ASSUMED PROPOSED IMPERMEABLE AREA (ha)	APPROXIMATE 1 IN 100 YEAR + 40% CC ATTENUATION VOLUME REQUIRED (m³)	PROPOSED DISCHARGE RATE (l/s)
Catchment A	3.20	1.92	1,210	19.4
Catchment B	1.70	1.02	850	
Catchment C	1.00	0.60	610	
Catchment D	1.20	0.72	400	
Catchment E	0.50	0.30	180	10.7
Catchment F	0.80	0.48	320	
Catchment G	0.80	0.48	210	
Catchment H	0.40	0.24	150	
Catchment I	1.30	0.78	590	3.2
Catchment J	1.00	0.60	400	
Catchment K	0.80	0.48	320	
Catchment L	1.00	0.60	360	
Catchment M	1.60	1.02	620	6.2
Catchment N	0.60	0.36	220	
Pitch Drainage	0.95	0.95	850	
Highway Catchment	0.08	0.08	40	
TOTAL	17.03	10.63	7,620	64.0

PO 07/07/2022

REV DATE

DRAFT FOR COMMENT

PR

REVISION NOTE

BY

SEVEN HOUSE - HIGH STREET

LONGFORDS - BIRMINGHAM

031 2100 - TEL 0121 475 0234

BIRMINGHAM - BRISTOL

EXETER - LONDON - READING

pja.co.uk

CLIENT

Merton College

PROJECT

Land West of Yarnton

DRAWING TITLE

Indicative Surface Water Drainage Strategy and Foul Diversion

DRAWING ISSUE STATUS

INFORMATION

PJA JOB No. SUBCODE DRAWING NO. REVISION

06058 - - 0104 - P0

Revision Letter / P - Prelim / A - Approval / T - Tender / C - Construction

REV DRAWING REFERENCE

SCALE

DRAWN

REVIEWED

DATE

AI@2000

PR

GD

MAR 2022