

APPENDIX 11 : UTILITIES STATEMENT - WSP, SEPTEMBER 2019



Bradford Rural Estates Ltd

UTILITY STATEMENT

Land at J3





Bradford Rural Estates Ltd

UTILITY STATEMENT

Land at J3

TYPE OF DOCUMENT (VERSION) PUBLIC

PROJECT NO. 70057223

OUR REF. NO. LAND AT J3

DATE: SEPTEMBER 2019

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EXECUTIVE SUMMARY

The Land at J3 proposal is for the development of 700 hectares, consisting of residential dwellings and its supporting amenities (including schools, healthcare, open space). This report provides a summary of the existing apparatus on site from the utility companies and seeks to determine capacities of local networks to service utility demands of the new development.

New supply enquiries have been submitted to the incumbent utility providers; Western Power Distribution (WPD), Cadent Gas, Severn Trent Potable Water, Openreach telecommunications to determine the capacity in local networks to service development proposals. With the exception of Cadent Gas and Openreach, responses remain outstanding from WPD and Severn Trent Water. This report will be updated following receipt of these responses.

ELECTRICITY

Western Power Distribution are due to provide comments based on the current layout proposals. At the time of writing a response remains outstanding.

WSP requested clarification from Western Power Distribution on whether or not off-site reinforcement would be required to support the proposals.

It is likely that a new substation will be required to service the demand of 31MVA, although there may be spare capacity in the 33/11kV substations nearby: (Shifnal 33/11kV Primary Station located 2.3 miles to the west of the site; to the east of the site the Albrighton 33/11kV Primary Substation located 2.6 miles from site] to service site supplies via a network of 11kV substations.

For a load of this magnitude, a minimum of 4 interconnected HV circuits would be anticipated, although this could be confirmed by WPD.

GAS

The Cadent Gas responses indicate there is sufficient capacity available in the existing networks to accommodate the anticipated loads at full build out.

Cadent Gas have provided a response identifying the 12-inch Steel (ST) Intermediate Pressure (IP) main located to the west of the site as the point of connection.

POTABLE WATER

As there is currently no infrastructure in the area to support any of the required flows, a new trunk main will need to be installed to bring water from the nearest Distribution Reservoir.



TELECOMMUNICATIONS

No constraints are anticipated with respect to telecommunications connectivity to the Openreach network.

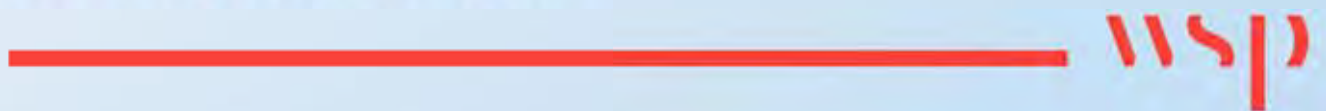
Openreach have confirmed they will deploy Fibre to the Premise (FTTP), free of charge, to all new housing developments of 30 or more homes. It will be necessary to register the site to develop FTTP proposals with Openreach.

Contact name **Andy Smith**

Contact details 0121 352 4700 | andy.j.smith@wsp.com

1

INTRODUCTION



1 INTRODUCTION

WSP have been appointed by Bradford Rural Estates to assist with the utility strategy (electricity, gas and potable water, fixed telecommunications) for the Land at J3 proposal.

The Land at J3 proposal is for the development of 700 hectares, consisting of residential dwellings and its supporting amenities (including schools, healthcare, open space).

This report provides a summary of the existing utility apparatus on site and seeks to determine capacities of local networks to service utility demands of the proposals.

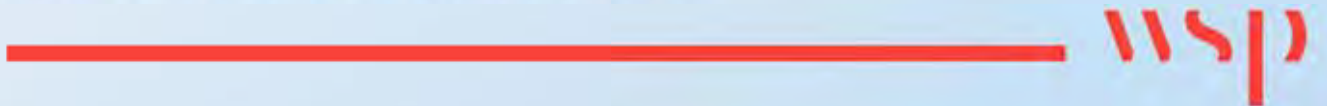
The Utility Statement has been produced on the basis of delivering the following:

- 3,415 Residential dwellings
- 1no. Warehouse
- 2no. Offices
- 2no. Primary Schools
- 1no. Secondary School
- 3no. Medical Centres
- 1no. Restaurant

The Objective is for WSP to review desktop information and provide commentary on existing utility infrastructure and constraints, and how the site may connect to the existing utility infrastructure.

2

UTILITY STRATEGY



2 UTILITY STRATEGY

Utility stakeholder network records have been used as the basis of ongoing consultation between WSP and the utility stakeholders to identify proposed points of connection and the required network alterations to accommodate the project proposals.

Records showing the distribution of private services within the site i.e. private networks, are unavailable to the design team.

WSP has undertaken an assessment of the load profile to predict the anticipated utility demands for the site.

Based on the anticipated loads, enquiries have been issued to the incumbent electricity, gas and potable water providers to assess the impact of the demands on their existing networks.

The required on-site infrastructure will be supplied from the existing networks surrounding the site with the infrastructure and service connections distributed to and around the site below ground and arranged in accordance with Streetworks UK (NJUG) guidelines.

Foul and surface water systems are not covered by this report.

2.1 EXISTING UTILITY NETWORKS AND ALTERATIONS

WSP have obtained utility record information for statutory undertakers known to be operating in the area of the site.

A list of statutory undertakers is given in Table 1 below and a list of responses received is located in Appendix A.

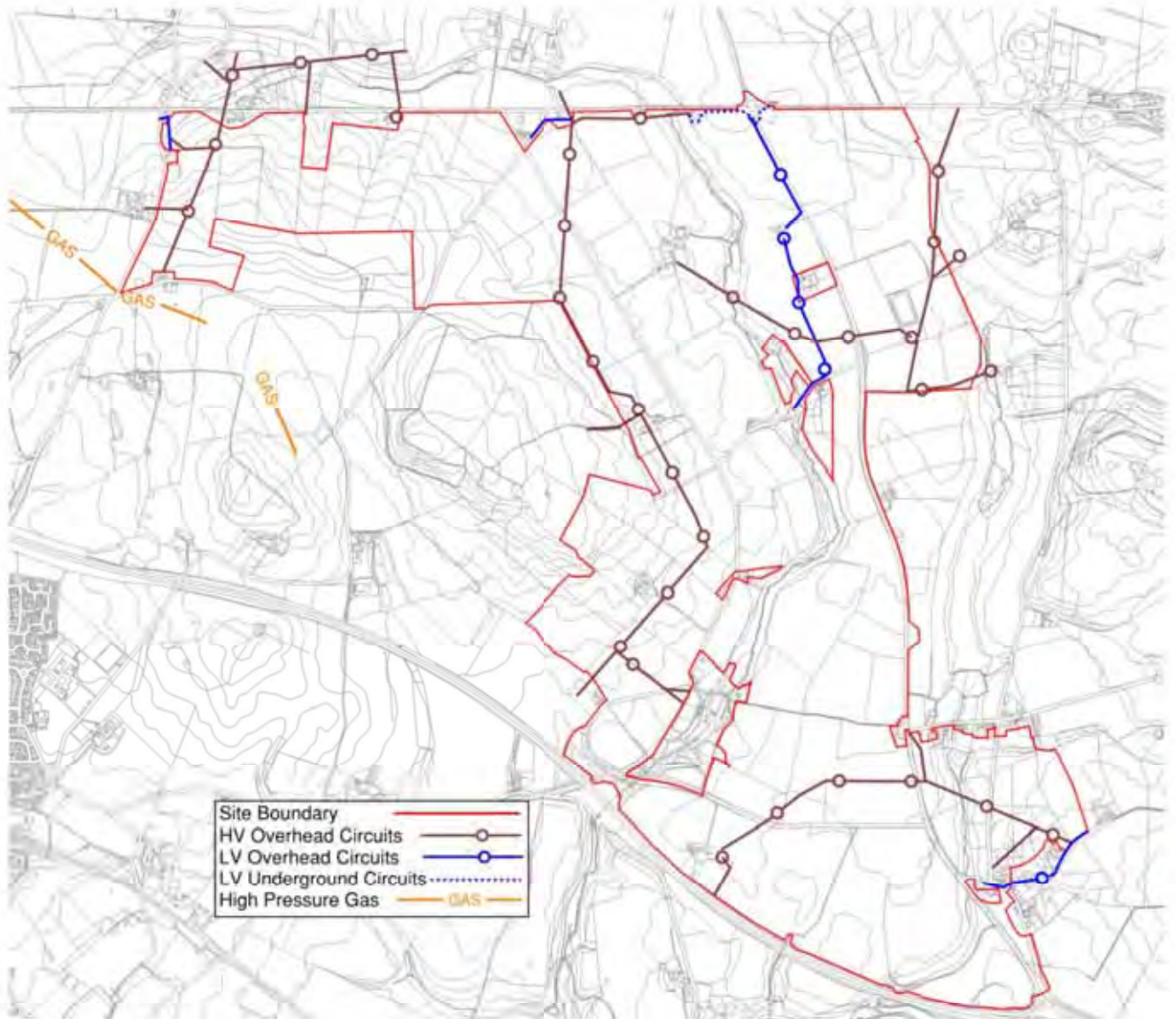
Table 1 – Incumbent Utility Network Providers

Service	Asset Owner
Electricity	Western Power Distribution
Gas	Cadent Gas
Potable Water	Severn Trent Water (STW)
Fixed Telecommunications	Openreach, Vodafone, Virgin Media

The following sections outline the existing utilities, which are routed within and near the sites, taken from record information obtained during this study.

A further review will be required during the detailed design stage to confirm any anticipated works associated with existing assets affected by any alterations to existing highways, footways and landscaping [i.e. proposed tree planting] layouts including changes to line and level.

Figure 2-1 - Electrical and Gas Infrastructure (from record mapping)



ELECTRICITY

Western Power Distribution (WPD) is the Electricity Distribution Network Operator for the Land at J3 scheme.

The following provides a summary of the location of the utility companies existing apparatus as shown in Figure 2-1.

High Voltage

From record mapping, 11kV High Voltage Overhead Lines are noted entering the site from the south over the M54 and heading east over the A41 before leaving the site to the east of Tong.

From record mapping, 11kV High Voltage Overhead Lines are noted entering the site from the north at the A5 at Burlington, crossing Lizard lane and running parallel to Lizard Lane southwards feeding small clusters of buildings, terminating before the M54

From record mapping, 11kV circuits are noted heading south west from the A5 west of Weston-under-Lizard, feeding small clusters of industrial, agricultural units, and leaving the site to the north east.

11kv High Voltage Overhead Lines are noted running north from Nanny Murphy's Lane to Crackleybank over the A5.

Low Voltage

Low Voltage underground cables are noted running adjacent to the north of the M54 at the south/east side of the site, which enter Newport Road and then leaves site in a north direction adjacent to Newport Road.

Low Voltage Overhead Lines are in Hubbal Lane which cross the north footway and the south footway on numerous occasions.

To the north of the M54 towards the west side of the site there is a low voltage overhead line which cross the M54 and heads past Lizard Farm before exiting site on the north/west side.

Low Voltage underground cables are located from St Bartholomew and St Mary's Church which head in a south direction to The Old Orchard.

Located from the Bell Inn Public House is a Low Voltage Overhead Cable which run adjacent to Offoxey Road on the north footway side and then into Shaw Lane on the west side.

Alterations

11kV high voltage (HV) and low voltage (LV) overhead lines will potentially require diversion to accommodate future development proposals. This would involve discussion with Western Power Distribution to determine the extent of and phasing of alterations required in line with the developing masterplan proposals.

11kV HV and LV overhead lines can be undergrounded within the new development, subject to agreement with WPD.

GAS

Cadent Gas is the Gas Distribution Network Operator for the Land at J3 scheme

A 762mm diameter high pressure (HP) gas main (Kynnersley – Swindon) crosses the site from the B4379 before heading in a southern direction (the section noted from record mapping can be seen in Figure 2-1).

POTABLE WATER

Severn Trent Water is the incumbent utility company for the Land at J3 scheme.

From record mapping a 3" diameter cast iron water main is noted in the northern footway from the junction of Hubbal Lane and Newport Road, terminating outside 4 Hubbal Lane.

From record mapping, a 3" diameter cast iron water main is noted heading in a northerly direction along the A41 located on the west side in the grass verge before leaving site.

On the west side of the site a 100mm ductile iron water main is noted in Lizard Lane which then connects onto the water main in Stanton Road.

From the junction of Stanton Road, a 0.75-inch diameter galvanised steel water main is noted heading north terminating outside Brook View Cottage, with two separate legs connecting to two individual properties.

The Severn Trent Water mains on the site may potentially require diversion as the design and masterplan develops. This would require further discussion with Severn Trent.

TELECOMMUNICATIONS

OPENREACH

From record mapping, Openreach assets are noted to the south side of the site adjacent to the M54, into Newport Road and heading towards the north of the site.

To the west side of the site crossing the M54, Openreach apparatus is noted in Lizard Lane after which the network branches off heading towards RSN Commercial's property building.

Openreach apparatus is noted at the rear of The Bell Inn heading down an unnamed road.

On the east side of the Newport Road/Offoxey Road junction, the Openreach network is noted in the northern footway which follows an east direction before exiting the site.

The nearest Openreach exchange named Weston-under-Lizard is located approximately 1500 metres north of the site.

VIRGIN MEDIA

Virgin Media's network is noted south of the M54 which cross Junction 3, heading into Newport Road on the west side of the footway and leaves the site to the north.

VODAFONE

Vodafone also have apparatus that is noted following the same route as the Virgin Media network; on the west side of Newport Road heading north before the leaving site.

MASTER DATA

Master Data (O2) have apparatus noted at two locations north of the M54 which is south of the site and the second one is located rear of Lizard Farm towards the north/west side of the site.

TRAFFIC MASTER

Traffic Master have apparatus noted on the bridge that cross the M54 south of the site and in Newport Road just north of the junction 3 roundabout.

HEALTH AND SAFETY EXECUTIVE (HSE)

WSP submitted an enquiry to the HSE dated the 11th July 2019.

The proposed development does not currently lie within the consultation distance (CD) of a major hazard site of major accident hazard pipelines. Therefore, at present HSE does not need to be consulted on any developments on this site.

2.2 UTILITY LOADINGS AND NEW NETWORKS

An assessment has been carried out, in the form of a load profiling exercise, to predict the anticipated utility loading requirements and to determine the impact of these loads on the existing utility infrastructure networks.

The utility load assessment is to be reviewed as the scheme develops as changes may affect the estimated loads and findings outlined to date.

ELECTRICITY

Western Power Distribution (WPD) is the Electricity Distribution Network Operator (DNO) for the site.

WSP has produced the following loading calculations for the purpose of engaging with the incumbent utility providers to determine points of connections and any off-site reinforcement or upgrade works to supply the proposed development.

Table 1 - Electrical Load Assessment

Development Zone	Peak Electrical Demand (KVA)	Electrical Comments
Site Wide	31,780	<i>For assumptions refer to Utility Loading Analysis located in Appendix F</i>

Budget application submitted to Western Power Distribution (WPD) dated the 5th August 2019 under reference number **3459704**.

Western Power Distribution have advised that the budget estimate is due back to WSP by the 11th September 2019.

Refer to **Appendix B** for electric information.

GAS

CADENT GAS

Cadent Gas is the Gas Distribution Network Operator the site.

WSP has produced the following load calculations for the purpose of engaging with the incumbent utility providers to determine points of connections and any off-site reinforcement or upgrade works to supply the proposed development.

Table 3 – Gas Load Assessment

Development Zone	Peak Gas Demand (kWh)	Annual Gas Demand (kWh/annum)	Gas Comments
Site Wide	72,324	115,040,277	<i>For assumptions refer to Utility Loading Analysis located in Appendix F</i>

Cadent Gas have provided a response (Ref: **130011626 dated 29/08/2019**) identifying the 12-inch diameter Steel (ST) **Intermediate Pressure (IP)** main located in Braintree Road to the west of the site as the point of connection.

Capacity and Network Reinforcement

The Cadent Gas responses indicate there is sufficient capacity available in the existing networks to accommodate the anticipated loads at full build out.

Refer to **Appendix C** for gas information.

In order to gather costing information on the proposed gas connection, applications have been submitted to Cadent alternative providers based upon the point of connection provided:

CU SOLUTIONS

CU Solutions have provided a response (Dated 9th September 2019 Reference 440522) to provide gas infrastructure to the site development.

The indicative price to undertake the works will be **£3,089,423 Plus VAT.**

The indicative price assumes the following

- Gas mains and services to supply a combined load of 72,324kW
- Gas meter supply and installation (including terminations)
- Provision of all plan and materials
- Design and submission of plans to relevant network for approval.
- Connection to the existing gas infrastructure in the highway.
- Local authority permits and road opening notices.
- Excavation, backfill and reinstatement on public land.
- Mobilisation of contractors/Service providers appointed by Complete Utility Solutions Ltd.
- Above price excludes any asset value discount/rebates that may become available upon a firm request.



POTABLE WATER

Severn Trent Water (STW) is the incumbent water utility company for both sites.

WSP has produced the following load calculations for the purpose of engaging with the incumbent utility providers to determine points of connections and any off-site reinforcement or upgrade works to supply the proposed development.

Refer to Appendix D for water information.

Table 2 – Potable Water Load Assessment

Development Zone	Peak Potable Water Demand (l/s)	Potable Water Comments
Site Wide	89.52	<i>For assumptions refer to Utility Loading Analysis located in Appendix F</i>

Severn Trent Water have provided a response (Dated 16th December 2019 Reference 8385519) to provide water infrastructure to the site development.

Severn Trent Water are pleased to confirm that they can supply the proposed development of 3,415 dwellings and 10 commercial units. As there is currently no infrastructure in the area to support any of the required flows, new trunk main will need to be installed to bring water from the nearest Distribution Reservoir. It is important that the developer notify Severn Trent Water as soon as possible when the layout plan is being put together to ensure that Severn Trent Water can complete the installation of the water main before and or in line with the construction. This may take some time and as such this should be taken into account when considering programme of works.

Therefore, the budget estimate cost does not include off-site works.

Please note there is an existing water main within the site boundary and may require diversion. The large trunk main provides source of water to the reservoir and moving it could take a longer period. If the developer wished to retain the water main in its existing location it should be remembered that this is only possible if left at the current level with the correct easement.

Due to the size of the development this will need to be applied for in phases. Phases should be designed to allow for no more than 250 properties per phase where possible, with an aim to occupy these properties within a 5-year period.

When the site is developed, the developer's contribution to the new water main(s) will be reduced by the anticipated income that Severn Trent Water will receive from the connected properties, this is known as the Developer Contribution. If the developer chooses to install a spine main initially through the main access road(s) for the site, this mains construction will be a full contribution under Severn Trent Water's current policies and processes. If a phase exceeds more than 250 properties cost for the onsite mains this will be at a bespcke cost.

Please note that the following is a budget estimate only, based on a desktop assessment of the site development and information provided. These costs will be subject to change upon receipt, assessment and design of the formal application.

As the source of water is over 22m from the site boundary this will need to be priced as a bespoke cost upon receipt of the formal application and is excluded from the budget estimate.

As the site history is greenfield it has been assumed that all pipework will be suitable for MDPE. If there are section of the site that are not greenfield, have had imported ground or are within 50 metres of a contamination issue a ground investigation report will be required as part of the formal application to confirm MDPE is suitable.

The budget cost (exclusive of VAT for Severn Trent Water to construct the new water main(s) is
13 Phases x 250 Plots = 3,250 plots.

New Water Mains (inclusive of connection cost)	£4,217,000
Developer Contribution	£421,700

1 Phases x 165 plots = 165 plots

New Water Mains (inclusive of connection cost)	£214,000
Developer Contribution	£21,400

Severn Trent Water is prepared to give an Asset payment for the constructed water mains laid by a WIRS accredited company. This will be paid to the developer or Self Lay Organisation for the work they complete. The developer Contribution will remain the same as it would if the developer elected for Severn Trent Water to install the main. The estimate asset value payment for this site is:

13 Phases x 250 plots = 3,250 plots

Estimated Asset Payment	£3,795,300
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1 Phase x 165 plots = 165 plots

Estimated Asset Payment	£192,600
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Service connection charges are not included in the cost of mains laying or the agreement would be issued under separate cover once the mains terms have been accepted. The charges will vary depending on the work being carried out for each connection.

The following estimate has been provided based on the number of properties on the site development and the infrastructure charges they would incur. The estimate does not include the cost of this individual service connection work or take into account any infrastructure credits or discounts that may be applicable.

13 Phases x 250 plots = 3,250 plots

Infrastructure Charges Water	£1,426,392.50
Infrastructure Charges Waste	£861,510.00

1 Phase x 165 plots = 165 plots

Infrastructure Charges Water	£72,416.85
Infrastructure Charges Waste	£43,738.20

When the developer wishes to proceed with obtaining water infrastructure for the development, a formal water mains application form will need to be submitted to obtain the design and quotation.

When the formal application is submitted please include a copy of the overall phasing layout for the site, showing entry/exit points between phases so that each phase can be designed to cater for any future demand where shared between parcels.

Each application will need to be clearly marked with the phase number/name with a site layout in AutoCAD DWG format showing the parcel's details for design.

TELECOMMUNICATIONS

Openreach have provided response dated the 12th August 2019 under reference number 11971-1597.

Openreach have confirmed that they can deploy Fibre to the Premises (FTTP), free of charge into all new housing developments of 30 or more homes.

FTTP provides estimated speeds of up to 1Gbps per dwelling.

Commercial

Openreach have confirmed that all commercial only sites will now be provided with fibre to the premises (FTTP) connectivity, with Openreach contributing £1000/plot of the cost. Any costs over and above this will be payable by the developer. Any additional charges will be confirmed in an offer letter when the site is registered with Openreach.

3

CONCLUSIONS AND NEXT STEPS



3 CONCLUSIONS AND NEXT STEPS

In summary, existing utility infrastructure networks have been identified within and in close proximity to the site.

During this round of consultation, the following has been established;

GENERAL

- The utility load assessment is to be reviewed as the scheme develops as changes may affect the estimated loads and findings outlined to date. It should be noted that payment for new on-site utility networks will not secure capacity on the network and additional charges may apply to reserve capacity should the applications for the individual plots not follow on from the construction of the on-site infrastructure. Third party applications in the proximity of the development may reduce the available capacity at the time of formal application.
- The Location of the utility assets from record mapping should be recorded (with associated constraints) in a combined plan to inform the proposed site layout. Further to this, the project should consider more accurately locating the line/level of utility assets via a utility survey to assist in more accuracy determining the impact of key utilities on the masterplan.
- Formal connection applications are to be pursued once the scheme is finalised in line with the construction programme.
- It will be necessary for the Client's cost consultant/QS to review the information in this report and provide budgets for works not allowed for by the utility companies. Further, the Client's cost consultant/QS to ensure the robustness of the cost information for Client's intended use noting that the budgets provided are for guidance with costs/scope of work confirmed on receipt of a formal quotation. The actual costs will be based on the works completed and may increase/decrease from the budget information provided.
- On-site Civils Work (duct lay, below ground telecommunications chamber and duct network(s), meter kiosks and metering, excavation, backfill, reinstatement, construction of substation bases etc.) are typically provided by the Developer and are excluded from the budgets.
- It will be necessary for the Client team to confirm any legal title for existing assets falling within the site and incorporate any constraints within the development of the layout.
- A further review will be required during the initial design stage to confirm any anticipated works associated with existing assets affected by any alterations to existing highways, footways and landscaping [i.e. proposed tree planting] layouts including changes to line and level. Where required, budget and detailed estimates are to be developed with the affected asset owners.
- It will be necessary to undertake intrusive/non-intrusive surveys in key areas to validate record information obtained from affected utility stakeholders at an appropriate time during the development of the masterplan. For example, surveys may be required where alterations to existing highway/footway layouts are required to accommodate the proposals.

ELECTRICITY

- Western Power Distribution are due to provide comments based on the current layout proposals. At the time of writing a response remains outstanding.

- WSP requested clarification from Western Power Distribution on whether or not off-site reinforcement would be required to support the proposals.
- It is likely that a new substation will be required to service the load of 31MVA, although there may be spare capacity in the 33/11kV substations nearby: (Shifnal 33/11kV Primary Station located 2.3 miles to the west of the site; to the east of the site the Albrighton 33/11kV Primary Substation located 2.6 miles from site] to service site supplies via a network of 11kV substations.
- For a load of this magnitude, a minimum of 4 interconnected HV circuits would be anticipated, although this could be confirmed by WPD.
- The need for electrical reinforcement remains a risk to the project until a formal quotation is progressed once sufficient design information is available.

GAS

- The Cadent Gas responses indicate there is sufficient capacity available in the existing networks to accommodate the anticipated loads at full build out.
- Cadent Gas do not provide budget information in response to capacity enquiries. It will be necessary for the QS/cost consultant to make an allowance for the required connections to the existing networks, extending the mains to both sites and the provision of the on-site networks, service connections, metering, etc.
- Cadent Gas have provided a response identifying the 12-inch Steel Diameter Polyethylene (ST) Immediate Pressure (IP) main located to the west of the site as the point of connection.
- Please be aware of existing mains or services within the site boundary that may require diversionary or abandonment works, this will be costed upon receipt of a firm request.

POTABLE WATER

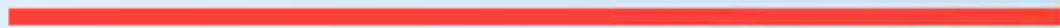
- The Water mains would normally be laid to a cover of 900mm and services are normally laid at right angles and must be laid to a minimum of 750mm.
- When excavating, care should be taken to accurately locate the mains and services, as they may be found at shallower or depth than indicated. There may also be private pipework crossing the site.
- As there is currently no infrastructure in the area to support any of the required flows, new trunk main will need to be installed to bring water from the nearest Distribution Reservoir.
- Please note there is an existing water main within site boundary and may require diversion.
- The large trunk main provides source of water to the Severn Trent Water reservoir and moving it could take a longer period.
- Diversion Application may be necessary to establish whether the water main will be affected and impacted by the construction activity.
- Before any construction for the site starts the development proposals will need to be assessed, in detail, to confirm any diversionary requirements.
- No Permanent structures are to be built within the protective easement of the existing main and there will be restrictions on tree planting/hedge laying.

TELECOMMUNICATIONS

- No constraints are anticipated with respect to telecommunications connectivity to the Openreach network.
- If FTTC or Fibre to the Premise (FTTP) connectivity is a goal for the project an early application should be made to Openreach as each site is assessed on an individual basis. The lead time for agreeing FTTP connectivity can be in the order of 12 months.
- Openreach have confirmed they will deploy Fibre to the Premise (FTTP), free of charge, to all new housing developments of 30 or more homes. It will be necessary to register the site to develop FTTP proposals with Openreach. The lead time for agreeing FTTP connectivity can be in the order of 12 months

Appendix A

UTILITY MAPPING RESPONSE





Desktop Subsurface Utility Report

Site Address: Land at M54 Junction 3
Tong
Shifnal
Shropshire
TF11 8QE

Grid Ref: 377864,308865

Our Ref: SP19424

Client: WSP

Search Date: 23rd July 2019



Technics House, Merrow Business Park, Guildford, Surrey, GU4 7WA
Technics Group is the trading name of Sitechnics Limited & Subtechnics Limited





1 Utility Report Content & Information

1.1 Purpose of Utilities Report

The Utilities Report is intended to be for project planning and feasibility only. It is not suitable to be used for construction or excavation purposes. The existence of utilities on the plans does not imply that they are suitable in size, capacity, type or location for the project purpose. The Utility Companies should be contacted directly for clarification in this regard.

1.2 Compilation of the Utilities Report

The Utilities Report is a compilation of Utility Company record plans. These are obtained via application to the Utility Companies following a geographic search to determine which Companies are in a given area. The data is provided by the Utility Companies in a variety of formats including faxed plans, pdf files, digital drawing files and paper drawings. They are all converted to pdf files for inclusion in the report. The quality of the plans therefore varies. A quality assured process is followed for each report. This requires that it is checked at different stages during the process before being subjected to a final assessment prior to issue.

1.3 Limitations and Accuracy of the data

Each Utility Company has its own disclaimer statement in respect of the information they provide. They do not guarantee or provide a warranty for the data. The Utility Company disclaimers should be referred to when considering the accuracy and completeness of the data. Generally the plans provided are for guidance only and are not guaranteed to be up to date or to be a complete record of the Utility Company plant in a given area.

Some Utility Companies only show main utilities. Therefore service pipes or cables may not be shown on the plans but they may be present on the site.

Some Utility Companies state that the utilities may deviate from the route and position shown on the plans.

Due to the time delay between installation of, or repair or upgrading of utilities and the subsequent updating of the Utility Companies plans, it should be noted that there could be utilities present that are not shown on the plans.

The user shall make further enquires and investigations to satisfy himself as to the adequacy of the plans and position of the utilities. The exact position of the utilities should be verified by the use of suitable detecting devices and safe digging practices in accordance with HS(G)47. Further advice on the location of the utilities should be requested from the owner.

1.4 Completeness

Whilst every effort is made to locate all Utility Companies in a given area, due to the sensitive or restrictive nature of certain sites, the existence of redundant utilities, the emergence of new companies and the combining of, takeover or sale of existing Companies, we cannot guarantee to provide details on all utilities in a given area.

1.5 Date

Due to the Utility Companies plans being regularly changed and updated, the Utility Report is only valid at the time of production.

1.6 Liability

For the reasons given in 1.1 to 1.5 above, Subtechnics Limited cannot accept any liability for or offer any guarantees for the report or the content. No representation is made by Subtechnics Limited as to the accuracy, completeness, and sufficiency or otherwise of this report.

1.7 Copyright

The copyright of the Utilities Report remains with Subtechnics Limited and may not be copied nor communicated using any method either in whole or in part without the prior written consent of Subtechnics Limited.

1.8 Assignment

The Utility Report cannot be assigned to any other party without the prior written consent of Subtechnics Limited.



2 Terms and Conditions

The Terms and Conditions should be read in conjunction with the 'Report Content & Information' sheet. The content of the 'Report Content & Information' sheet forms part of the Terms and Conditions.

2.1 Disbursements

- 1.1 Several Utility Companies charge for either searching to determine if they have any plant or for providing plans. The details of the charges are contained in the disbursement table. They are charged to the client at cost.
- 1.2 The Utility Companies that make a charge or the charges themselves may be changed or updated without notification to the client.

2.2 Turnaround times

- 1.3 Whilst every effort is made to produce the reports as quickly as possible we are reliant on the Utility Companies to provide us with the plans and/or data. Generally reports are completed within approximately 15 to 20 working days.
- 1.4 No guarantees can be made regarding the time taken to complete the report.

2.3 Limitation of Liability

- 3.1 Subtechnics Limited will make all reasonable endeavors to provide the Utility Report within the stated time period and shall not be liable for any delay arising because of any act, omission or delay of any Utility Company.
- 3.2 The Utility Companies have no liability to Subtechnics Limited in relation to the provision of information, plans and/or data or the omission of or to provide such information, plans or data. Therefore Subtechnics Limited shall have no liability to a Client for the information, plans and data contained in a Utilities Report.
- 3.3 Subtechnics Limited shall have no liability in relation to any Utilities Report for loss or damage arising in relation to loss of profits, loss of business, loss of use, costs, damages, charges or expenses.

2.4 Cancellation Policy

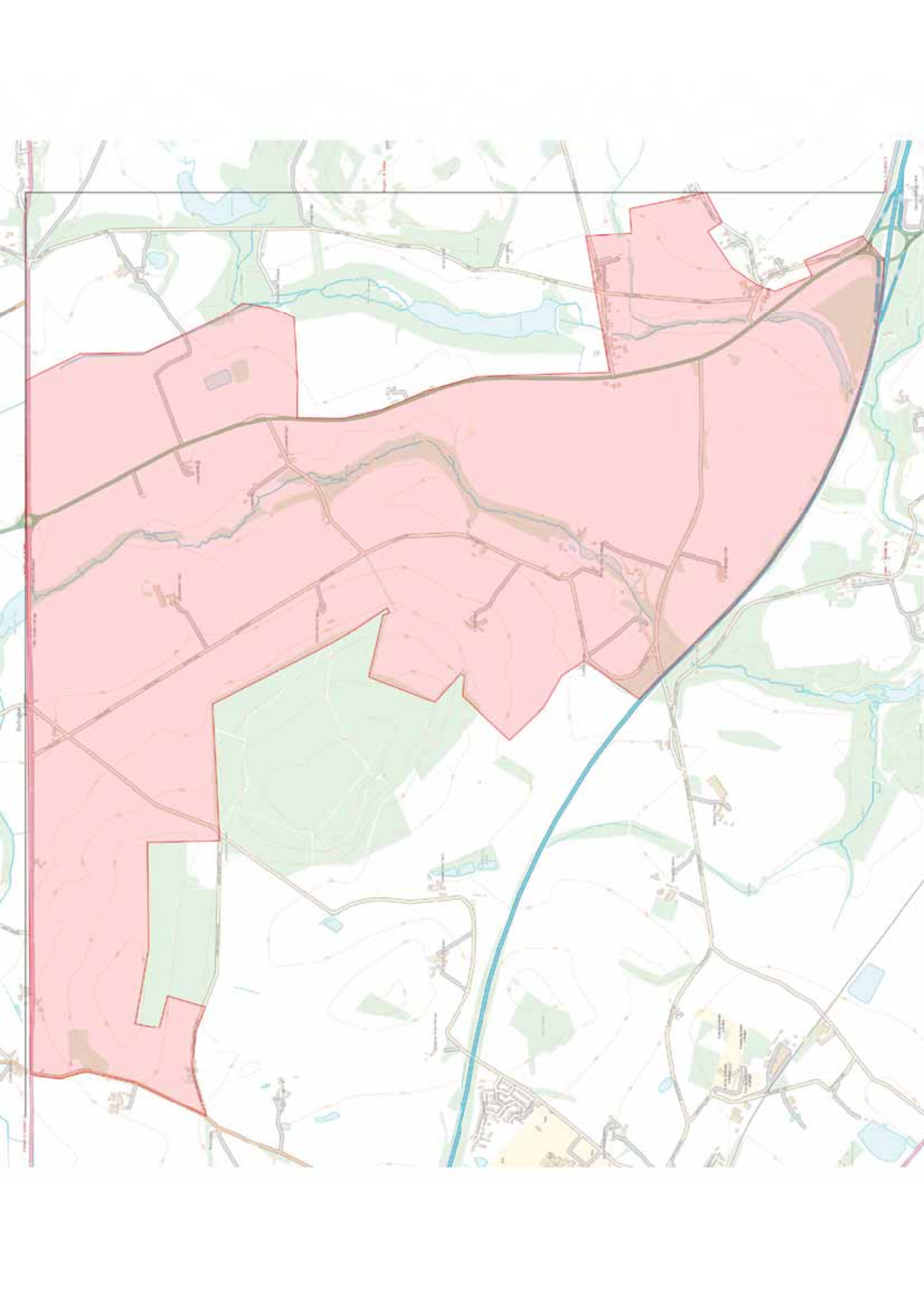
- 4.1 If the report has been ordered online or by any other means, but the Utility Report compilation process has not been initiated at the time of cancellation, there will be no charge.
- 4.2 If the report has been generated but not sent out, you will be charged 75% of the report price plus the full costs of all disbursements.
- 4.3 There is no cancellation if the report has been sent.

2.5 Force Majeure

Subtechnics Limited will have no liability to the Client if it is prevented from or delayed in performing its obligations in connection with producing the Utilities Report by any act, event, omission, accident or incident beyond its reasonable control. These include but are not limited to:- any form of industrial dispute, strike or lock-out, breakdown or failure of a utility service or transport network, act of God, war, riot, civil commotion, malicious damage, accident, incident, breakdown of plant, machinery or electronic system, fire or flood.

2.6 Governing Law

The Governing Law and Jurisdiction of these Terms and Conditions, any Contract or Agreement are governed by and construed in accordance with the laws of England and Wales. 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, any Contract or Agreement.



Utility Company Underground Services Search Results Schedule

Your Ref: 20096411
Our Ref: SP19424
Address: Land at M54 Junction 3, Tong, Shifnal, Shropshire
Grid Reference: 377864,308865
Post Code: TF11 8QE
Author: Stephen
SEARCH DATE: 23/07/19

AFFECTED

Utility Company	Site Area Affected ✓
Water	
Foul/Surface Water Company – Severn Trent	✓
Potable Water Company – Severn Trent	✓
Electricity	
Electricity Distribution Company – Western Power Distribution	✓
Gas	
Gas Distribution Company – National Grid	✓
Telecoms	
Atkins Global (Vodafone)	✓
BT Openreach	✓
Virgin Media	✓
Utility Company	Site Area Affected ✓

NOT AFFECTED

Utility Company	NOT Affected ✓
Water	
GTC – Independent Water Networks Limited	✓
Electricity	
Energetics (Electricity)	✓
GTC – Electricity Network Company Limited	✓
GTC – Independent Power Networks Limited	✓
Linesearch – Drax Group	✓
Linesearch – EirGrid	✓
Linesearch – ESB	✓
Linesearch – ESP Utilities Group	✓
Linesearch – Intergen (Coryton Energy or Spalding Energy)	✓
Linesearch – Manx Cable Company	✓
Linesearch – Melbourn Solar Limited	✓
Linesearch – Murphy Utility Assets	✓
Linesearch – Ørsted	✓
Linesearch – Prysmian Cables & Systems Ltd (c/o Western Link)	✓
Linesearch – Seabank Power Limited	✓
Linesearch – Uniper UK Ltd	✓
Linesearch – Vattenfall	✓
Gas	
Energetics (Gas)	✓
GTC Pipelines Ltd	✓
GTC – Independent Pipelines Ltd	✓
GTC – Quadrant Pipelines Ltd	✓
Linesearch – CATS Pipeline c/o Wood Group PSN	✓
Linesearch – Centrica Storage Ltd	✓
Linesearch – E.ON UK CHP Limited	✓
Linesearch – EP Langage Limited	✓
Linesearch – ESB	✓
Linesearch – ESP Utilities Group	✓
Linesearch – Fulcrum Pipelines Limited	✓
Linesearch – Humbly Grove Energy	✓
Linesearch – IGas Energy	✓
Linesearch – Marchwood Power Ltd (Gas Pipeline)	✓
Linesearch – Murphy Utility Assets	✓
Linesearch – RWE - Great Yarmouth Pipeline	✓
Linesearch – RWEpower (Little Barford and South Haven)	✓
Linesearch – Wingas Storage UK Ltd	✓
Utility Company	NOT Affected ✓

Utility Company	NOT Affected ✓
Telecoms	
C A Telecoms – Colt	✓
CityFibre Holdings Limited	✓
GTC – Independent Fibre Networks Limited	✓
Instalcom – CenturyLink	✓
Instalcom – Global Crossing (UK) Ltd	✓
Instalcom – Global Crossing PEC	✓
Instalcom – Fibernet UK Ltd	✓
Instalcom – FibreSpan Limited	✓
KPN	✓
Linesearch – Concept Solutions People Ltd	✓
Linesearch – Gamma	✓
Linesearch – Gigaclear PLC	✓
Linesearch – GTT	✓
Linesearch – Tata Communications (c/c JSM Construction Ltd)	✓
Linesearch – Zayo Group UK Ltd c/o JSM Group Ltd	✓
Sky Telecommunications Services Ltd	✓
Trafficmaster	✓
Verizon Business	✓
District Energy	
GTC – Independent Community Heating Limited	✓
Linesearch – Gateshead Energy Company	✓
Linesearch – Pimlico District Heating Undertaking (PDHU)	✓
Linesearch – Veolia ES SELCHP Limited	✓
Utility Company	NOT Affected ✓

Utility Company	NOT Affected ✓
Oil/Fuel/Other - Linesearch Replies	
Linesearch – AWE Pipeline	✓
Linesearch – Balfour Beatty Investments Limited	✓
Linesearch – BOC Limited (A Member of the Linde Group)	✓
Linesearch – BP Exploration Operating Company Limited	✓
Linesearch – BPA	✓
Linesearch – Carrington Gas Pipeline	✓
Linesearch – CLH Pipeline System Ltd	✓
Linesearch – ConocoPhillips UK Ltd	✓
Linesearch – DIO (MOD Abandoned Pipelines)	✓
Linesearch – ENI & Himor c/o Penspen Ltd	✓
Linesearch – EnQuest NNS Limited	✓
Linesearch – ESSAR	✓
Linesearch – Esso Petroleum Company Ltd	✓
Linesearch – INEOS FPS Pipelines	✓
Linesearch – INEOS Manufacturing (Scotland & TSEP)	✓
Linesearch – INOVYN Enterprises Limited	✓
Linesearch – Mainline Pipelines Limited	✓
Linesearch – Manchester Jetline Limited	✓
Linesearch – Npower CHP Pipelines	✓
Linesearch – Oikos Storage Limited	✓
Linesearch – Perenco UK Ltd (Purbeck Southampton Pipeline)	✓
Linesearch – Petroineos	✓
Linesearch – Phillips 66	✓
Linesearch – Premier Transmission Ltd (SNIP)	✓
Linesearch – Redundant Pipelines – LPDA	✓
Linesearch – Sabic UK Petrochemicals	✓
Linesearch – Shell (St Fergus to Mossmorran)	✓
Linesearch – Shell Pipelines	✓
Linesearch – Total (Colnbrook & Colwick Pipelines)	✓
Linesearch – Total Finaline Pipelines	✓
Linesearch – Transmission Capital	✓
Linesearch – Cemex	✓
Linesearch – Westminster City Council	✓
Transportation	
Network Rail	✓
Linesearch – Heathrow Airport Ltd	✓
Utility Company	NOT Affected ✓

www.technicsgroup.com
utility.reports@technicsgroup.com
 01483 23 00 80 ask for Stephen

AFFECTED

WATER

SEVERN

TRENT

SEVERN TRENT
Asset Data Management
GISmapping Team
PO Box 5344
Coventry
CV3 9FT

Tel: 0345 601 6616 opt.1

Our Ref: 72071

29 July 2019

Apparatus Location Enquiry

**Further to your enquiry re: Land at M54, Junction 3, Tong, Shifnal, Shropshire
TF11 8QE
(your ref: SP19424)**

Enclosed is a copy of the plans showing the approximate positions of the **public sewers and water mains** situated within the vicinity of the land/property which is the subject of your enquiry.

Asset Data Management can only provide plans of the location of the Company's underground assets. Therefore service pipes and drains are the responsibility of the property owner and should be anticipated during any excavation.

However, we wish to inform you that although most private lateral drains and sewers were transferred to Severn Trent Water's ownership on 1st October 2011, the Company does not possess complete records of these assets and therefore they may not be shown on these maps.

Please also find enclosed a copy of Severn Trent Water's General Conditions and Precautions for your information.

Kind Regards

GISmapping Team

Enquiry received
GISmapping
29 July 2019

SJ75115E

SJ74150W

SJ75150W

SJ75105E

Abandoned Sewer	Cable, Earthing	Blind Shaft	Sewer Chemical Injection Point
Private Combined Gravity Sewer	Circle Junction	Combined Live Manhole	Sewer Junction
Private Foul Gravity Sewer	Cable, Optical Fibre/Instrumentation	Flushing Chime	Sewerage At Valve
Private Surface Water Gravity Sewer	Cable, Low Voltage	Foul Live Manhole	Sewerage Hatch Box Point
Public Combined Gravity Sewer	Cable, High Voltage	Grease Trap	Sewerage Isolation Valve
Public Foul Gravity Sewer	Cable, Other	Head Hole	Skidway
Public Surface Water Gravity Sewer	Hoisting, Building	Hydraulic	Surface Water Manhole
Trunk Combined Gravity Sewer	Hoisting, Risk	Lampole	Valve Column
Trunk Foul Use Gravity Sewer	Deposited Site	Outlet	Waste Water Storage
Trunk Surface Water Gravity Sewer	Sewerage Treatment Works	Over-Sea	Collected Watercourse
Combined Use Pressurised Sewer	Hoisting, Other	Perforated	Pre-1837 Properties
Foul Use Pressurised Sewer	Pipe Support Structure	Pithead Interceptor	
Surface Water Pressurised Sewer	Sewerage Pumping Facility	Sewer Blockage	
Highway Drain	Sewer Facility Connection Inlet / Outlet	Sewer Collapse	
Combined Lateral Drain (SD)			
Foul Lateral Drain (SD)			
Surface Water Lateral Drain (SD)			

40	ASBESTOS-CEMENT
50	BRICK
10	CONCRETE BLOCK/CLAMP
11	CAST IRON
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MATERIALS	CATEGORIES	TABULAR KEY
40 ASBESTOS-CEMENT	41 BRICK	42 CONCRETE
50 BRICK	51 CONCRETE	52 CONCRETE
10 CONCRETE BLOCK/CLAMP	11 CAST IRON	12 CONCRETE
11 CAST IRON	12 CONCRETE	13 CONCRETE
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SEWERAGE TREATMENT WORKS

Severn-Trent Water Limited
Asset Data Management
PO Box 2144
Sewerby
CV31 9YF
Telephone: 01454 521 500

SEWER RECORD (TABULAR)

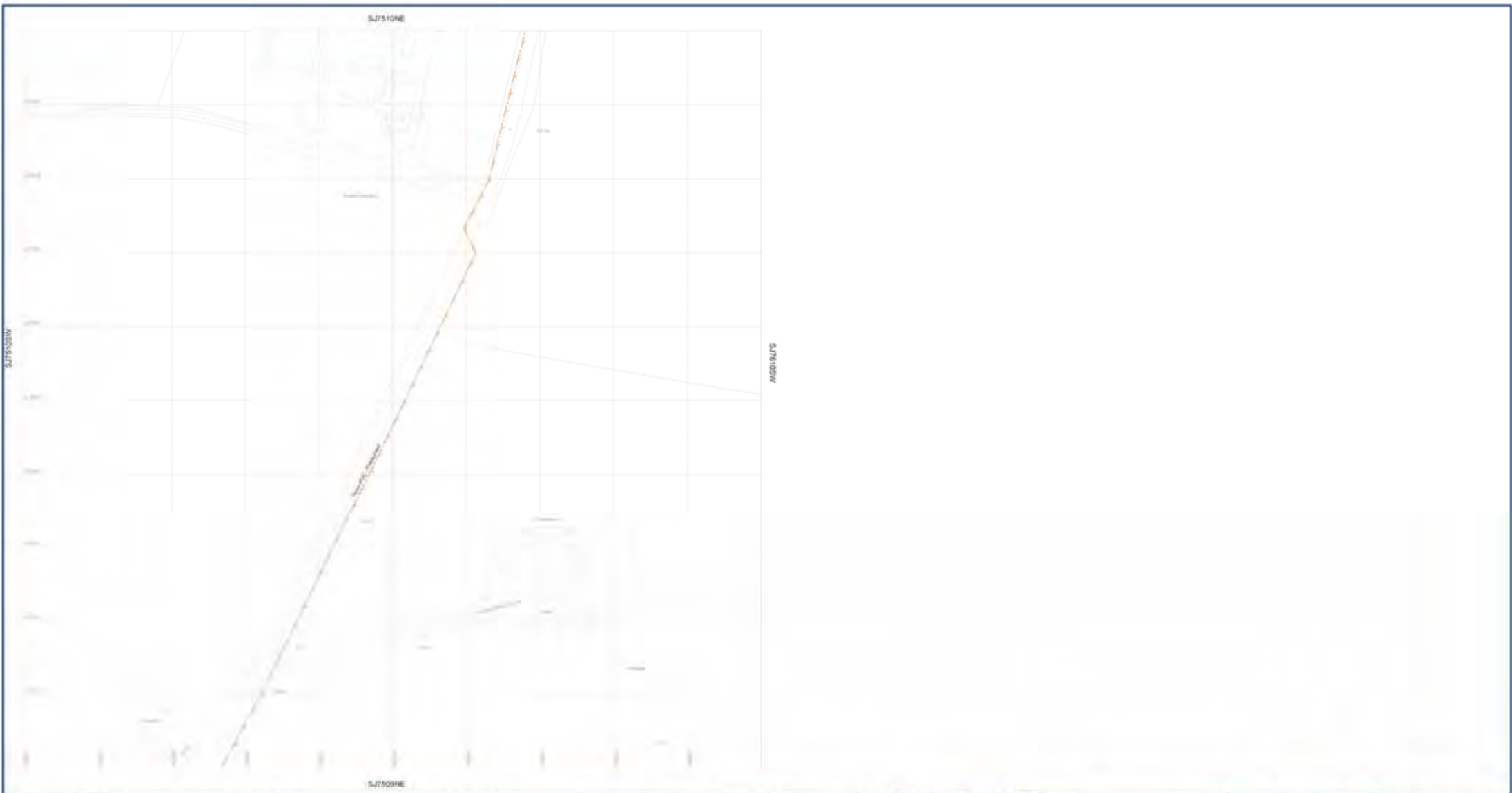
OS Map scale: 1:250 This record is based upon OS 1:250 data.

Date of Issue: 29.07.19 Date of Issue: 07/8 This reference.

Sheet No. 1011 SUT105E

Disclaimer

This map and associated information is provided as a general guide only and does not constitute an offer of any service or product. It is not intended to be used as a substitute for professional advice or services. The user is responsible for the accuracy and completeness of the information provided. The user is advised to verify the information provided on this map with the relevant authorities. The user is advised to verify the information provided on this map with the relevant authorities. The user is advised to verify the information provided on this map with the relevant authorities.



- Abandoned Sewer
- Private Combined Gravity Sewer
- Private Foul Gravity Sewer
- Private Surface Water Gravity Sewer
- Public Combined Gravity Sewer
- Public Foul Gravity Sewer
- Public Surface Water Gravity Sewer
- Trunk Combined Gravity Sewer
- Trunk Foul Use Gravity Sewer
- Trunk Surface Water Gravity Sewer
- Combined Use Pressurized Sewer
- Foul Use Pressurized Sewer
- Surface Water Pressurized Sewer
- Highway Drain
- Combined Lateral Drain (SD)
- Foul Lateral Drain (SD)
- Surface Water Lateral Drain (SD)

- Cable, Earthing
- Cable Junction
- Cable, Optical Fibre/Instrumentation
- Cable, Low Voltage
- Cable, High Voltage
- Cable, Other
- Housing, Building
- Housing, Ruin
- Disposed Site
- Sewage Treatment Works
- Housing, Other
- Pipe Support Structure
- Sewage Pumping Facility
- Sewer Facility Connection Inlet / Outlet

- Blind Shaft
- Combined Use Manhole
- Flushing Chamber
- Foul Use Manhole
- Greaser Trap
- Head Tank
- Hydrostatic
- Lamphole
- Outlet
- Overflow
- Perforated
- Petrol Interceptor
- Sewer Blockage
- Sewer Collapse
- Sewer Chemical Injection Point
- Sewer Junction
- Sewerage At Valve
- Sewerage Hatch Box Point
- Sewerage Isolation Valve
- Skidway
- Surface Water Manhole
- Vald Column
- Waste Water Storage
- Collected Watercourse
- Pre-1837 Properties

MATERIALS		CATEGORIES		PURPOSE	
10	CONCRETE MANHOLE	10	CONCRETE	10	CONCRETE
11	CAST IRON	11	CAST IRON	11	CAST IRON
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Source: Trunk Sewer Limited
Asset Data Management
PO Box 2144
Surrey
CO1 0YF
Telephone: 01483 521 5010

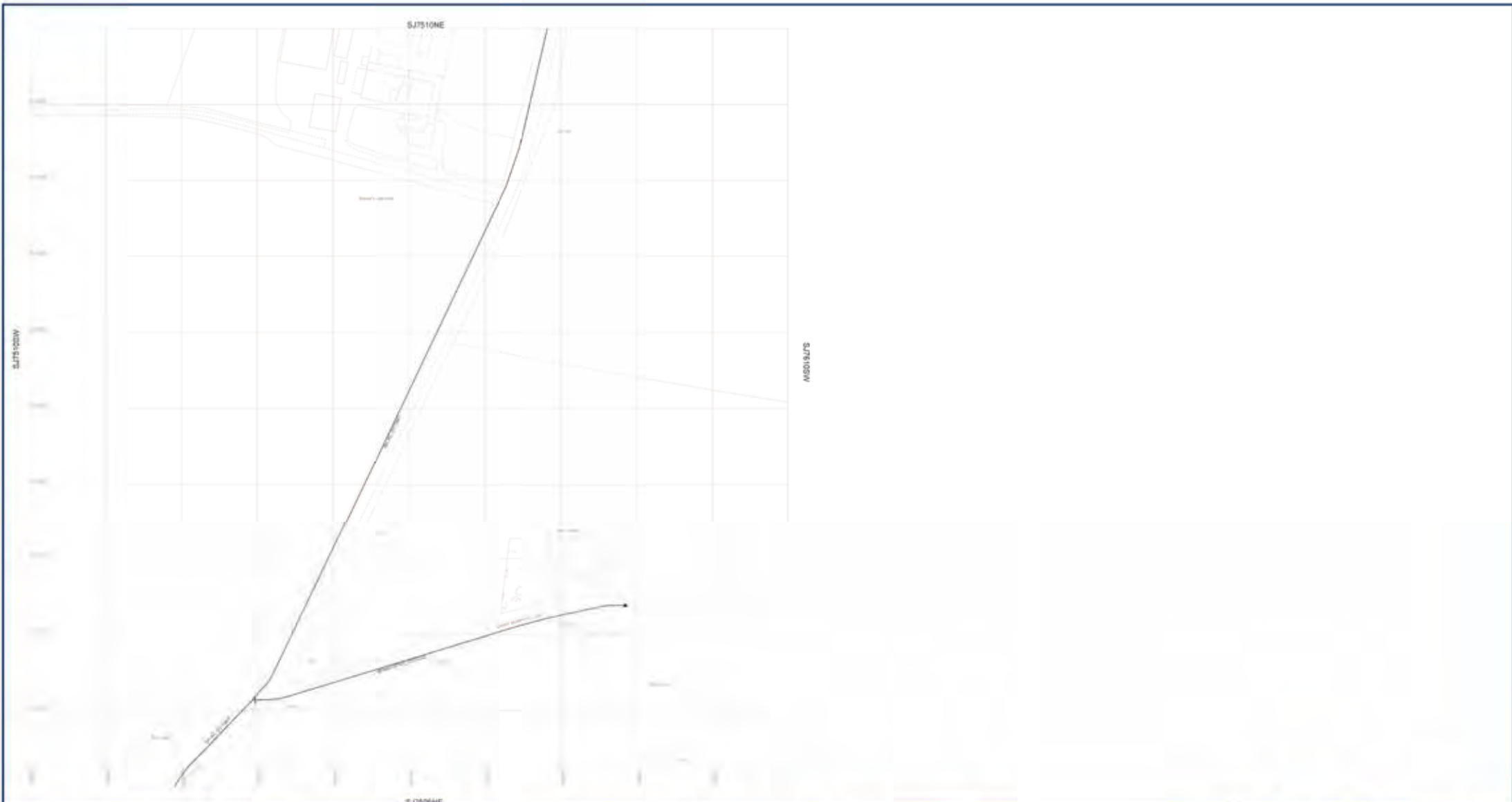
SEWER RECORD (TABULAR)

GIS Map scale: 1:1250 This record is restricted to: 0/18 This information.

Date of Issue: 29.07.19 Sheet No.: 1 of 1 SJ7510SE

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	Distribution Main
	Trunk Main (Geography)
	Strategic Main
	Fire Supply Main
	Fire Main
	Non-Domestic Customer Service Pipe
	Domestic Customer Service Pipe
	Abandoned Main
	Diverted Main
	Appurtenant
	Duct
	Cable, Earthing
	Cable, Optical Fibre/Transmission
	Cable, Low Voltage
	Cable, High Voltage
	Cable, Other

	Pumping Facility
	Booster Facility
	Intake Water Storage
	Water Tower
	Valve / Boxman
	ISBM
	Water Treatment Work / Chamber
	Over-Off Tower
	Booster Point
	Water Facility Connection

	Water Isolation Valve (Closed)
	Water Isolation Valve (Open)
	Water Isolation Valve (Partially Open)
	Water Air Valve
	Pressure Reducing Valve
	Pressure Sustaining Valve
	Non-Return Valve
	Flap Valve
	Hydrant (Single/Double)
	Waterout (Single/Double)
	Bulk Meter
	Water Hatch Box
	Pressure Tapping
	Insertion Flow Meter Point

	Water Chemical Injection Point
	Motus Water Point
	Quality Sample Point
	Change in Characteristics
	Marker Post
	Grade
	Boundary Box
	Step Up
	Cross Piece
	Stopper
	Laiting Post
	Reversal Meter

	Housing, Building
	Housing, Kiosk
	Housing, Other
	Pipe Support Structure
	Open Pipe
	Discharge
	End Cap
	ESB Area
	Access Pipe
	Pre-1937 Projection

MATERIALS	
	Cast Iron
	Steel
	Aluminum
	Concrete
	Asphalt
	Clay
	Plastic
	Other

LINING	
	Asphalt
	Concrete
	Clay
	Plastic
	Other



Sewer Trent Water Limited
 Asset Data Management
 PO Box 1344
 Gwentry
 G20 4PT
 Telephone 01495 361 6516

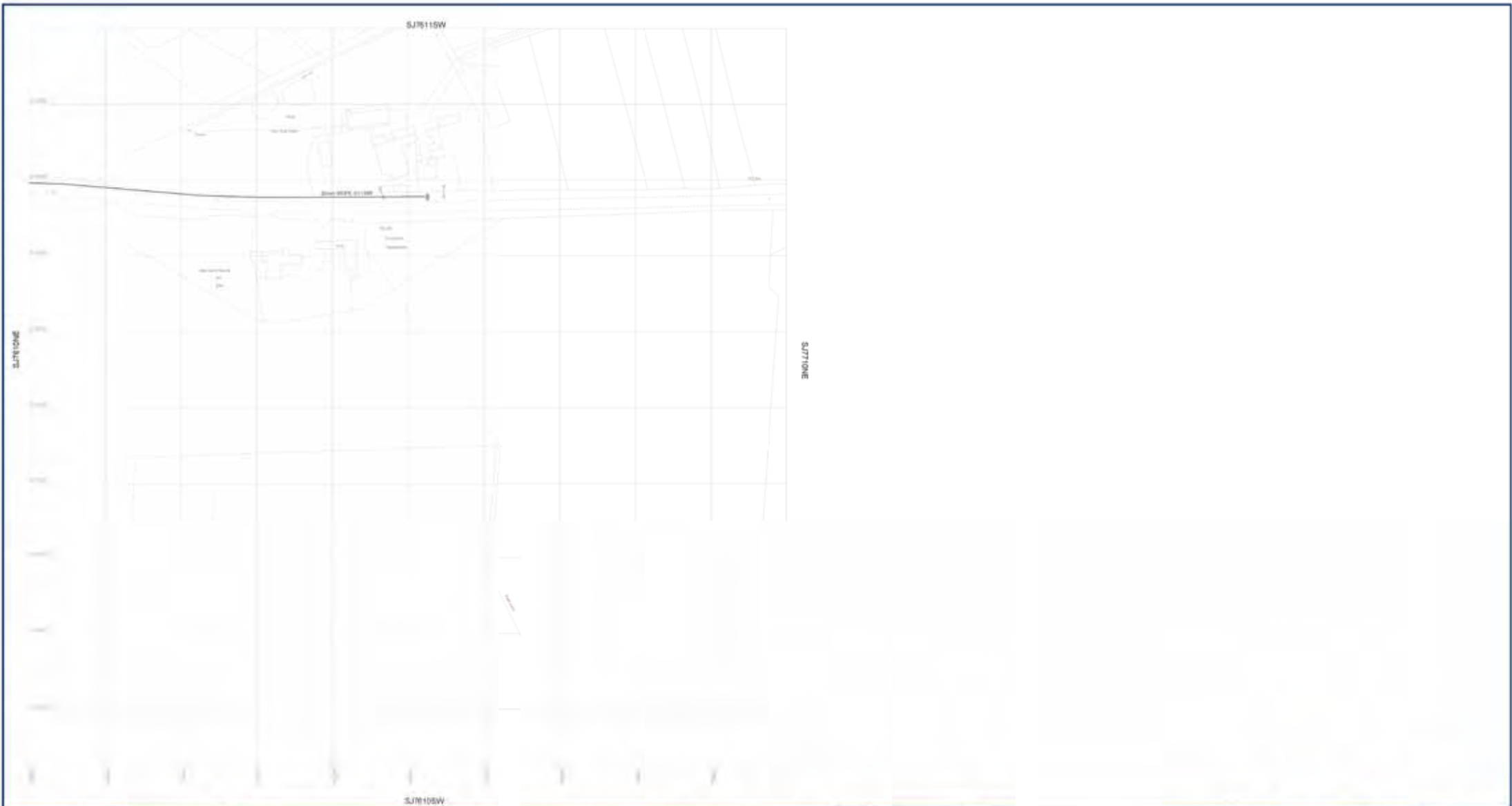
WATER MAINS RECORD (TILE)

OS Map Scale: 1:2500 This map is oriented upside down
 Date of Issue: 16/07/19 © S TWS reference:

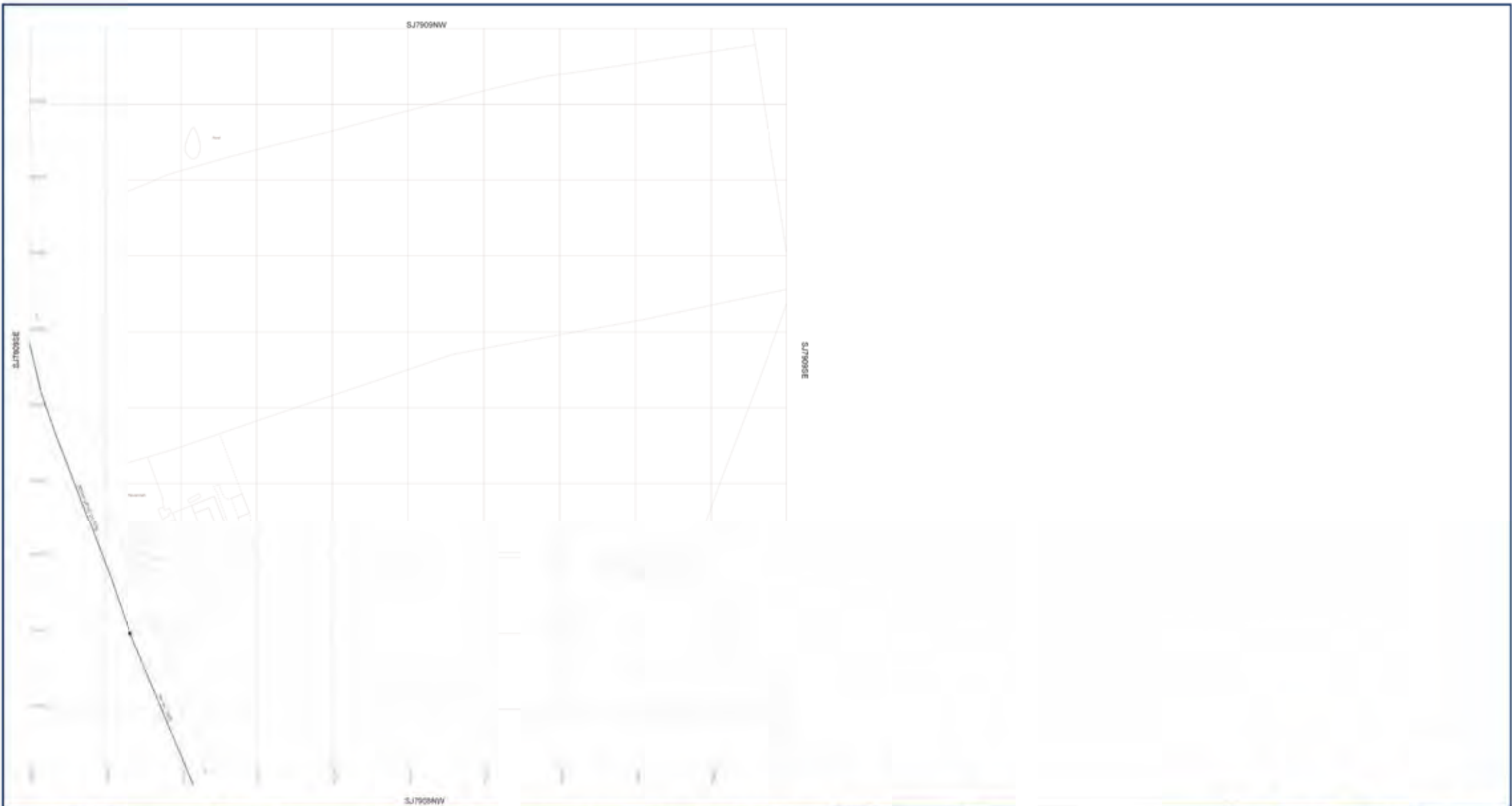
S175100E

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<ul style="list-style-type: none"> Distribution Main Trunk Main (circularity) Strategic Main Fire Supply Main Fire Main Non-Domestic Customer Service Pipe Domestic Customer Service Pipe Abandoned Main Diverted Main Appurtenant Duct Cable, Earthing Cable, Optical Fibre/Transmission Cable, Low Voltage Cable, High Voltage Cable, Other 	<ul style="list-style-type: none"> Pumping Facility Booster Facility Intake Water Storage Water Tower Valve Room WWSM Water Treatment Work / Chamber Over-Off Tower Booster Plant Water Facility Commission 	<ul style="list-style-type: none"> Water Isolation Valve (Closed) Water Isolation Valve (Open) Water Isolation Valve (Partially Open) Water Air Valve Pressure Reducing Valve Pressure Sustaining Valve Non-Return Valve Floor Valve Right-Hand (Single/Double) Washout (Single/Double) Bulk Meter Water Hatch Box Pressure Tapping Insertion Flow Meter Point 	<ul style="list-style-type: none"> Water Chemical Injection Point Motus Water Point Quality Sample Point Change In Characteristics Marker Post Gutter Junction Road Boundary Box Strip Sign Cross Piece Stopper Laiting Post Reversal Meter 	<ul style="list-style-type: none"> Housing, Building Housing, Road Housing, Other Pipe Support Structure Open Pipe Discharge End Cap ESB Area Access Pipe Pre-1937 Projection 	<p>MATERIALS</p> <ul style="list-style-type: none"> 100mm 150mm 200mm 250mm 300mm 350mm 400mm 450mm 500mm 600mm 750mm 900mm 1050mm 1200mm 1350mm 1500mm 1650mm 1800mm 2100mm 2400mm 2700mm 3000mm 3300mm 3600mm 3900mm 4200mm 4500mm 4800mm 5100mm 5400mm 5700mm 6000mm 6300mm 6600mm 6900mm 7200mm 7500mm 7800mm 8100mm 8400mm 8700mm 9000mm 9300mm 9600mm 9900mm 10200mm 10500mm 10800mm 11100mm 11400mm 11700mm 12000mm 12300mm 12600mm 12900mm 13200mm 13500mm 13800mm 14100mm 14400mm 14700mm 15000mm 15300mm 15600mm 15900mm 16200mm 16500mm 16800mm 17100mm 17400mm 17700mm 18000mm 18300mm 18600mm 18900mm 19200mm 19500mm 19800mm 20100mm 20400mm 20700mm 21000mm 21300mm 21600mm 21900mm 22200mm 22500mm 22800mm 23100mm 23400mm 23700mm 24000mm 24300mm 24600mm 24900mm 25200mm 25500mm 25800mm 26100mm 26400mm 26700mm 27000mm 27300mm 27600mm 27900mm 28200mm 28500mm 28800mm 29100mm 29400mm 29700mm 30000mm 30300mm 30600mm 30900mm 31200mm 31500mm 31800mm 32100mm 32400mm 32700mm 33000mm 33300mm 33600mm 33900mm 34200mm 34500mm 34800mm 35100mm 35400mm 35700mm 36000mm 36300mm 36600mm 36900mm 37200mm 37500mm 37800mm 38100mm 38400mm 38700mm 39000mm 39300mm 39600mm 39900mm 40200mm 40500mm 40800mm 41100mm 41400mm 41700mm 42000mm 42300mm 42600mm 42900mm 43200mm 43500mm 43800mm 44100mm 44400mm 44700mm 45000mm 45300mm 45600mm 45900mm 46200mm 46500mm 46800mm 47100mm 47400mm 47700mm 48000mm 48300mm 48600mm 48900mm 49200mm 49500mm 49800mm 50100mm 50400mm 50700mm 51000mm 51300mm 51600mm 51900mm 52200mm 52500mm 52800mm 53100mm 53400mm 53700mm 54000mm 54300mm 54600mm 54900mm 55200mm 55500mm 55800mm 56100mm 56400mm 56700mm 57000mm 57300mm 57600mm 57900mm 58200mm 58500mm 58800mm 59100mm 59400mm 59700mm 60000mm 60300mm 60600mm 60900mm 61200mm 61500mm 61800mm 62100mm 62400mm 62700mm 63000mm 63300mm 63600mm 63900mm 64200mm 64500mm 64800mm 65100mm 65400mm 65700mm 66000mm 66300mm 66600mm 66900mm 67200mm 67500mm 67800mm 68100mm 68400mm 68700mm 69000mm 69300mm 69600mm 69900mm 70200mm 70500mm 70800mm 71100mm 71400mm 71700mm 72000mm 72300mm 72600mm 72900mm 73200mm 73500mm 73800mm 74100mm 74400mm 74700mm 75000mm 75300mm 75600mm 75900mm 76200mm 76500mm 76800mm 77100mm 77400mm 77700mm 78000mm 78300mm 78600mm 78900mm 79200mm 79500mm 79800mm 80100mm 80400mm 80700mm 81000mm 81300mm 81600mm 81900mm 82200mm 82500mm 82800mm 83100mm 83400mm 83700mm 84000mm 84300mm 84600mm 84900mm 85200mm 85500mm 85800mm 86100mm 86400mm 86700mm 87000mm 87300mm 87600mm 87900mm 88200mm 88500mm 88800mm 89100mm 89400mm 89700mm 90000mm 90300mm 90600mm 90900mm 91200mm 91500mm 91800mm 92100mm 92400mm 92700mm 93000mm 93300mm 93600mm 93900mm 94200mm 94500mm 94800mm 95100mm 95400mm 95700mm 96000mm 96300mm 96600mm 96900mm 97200mm 97500mm 97800mm 98100mm 98400mm 98700mm 99000mm 99300mm 99600mm 99900mm 100200mm 100500mm 100800mm 101100mm 101400mm 101700mm 102000mm 102300mm 102600mm 102900mm 103200mm 103500mm 103800mm 104100mm 104400mm 104700mm 105000mm 105300mm 105600mm 105900mm 106200mm 106500mm 106800mm 107100mm 107400mm 107700mm 108000mm 108300mm 108600mm 108900mm 109200mm 109500mm 109800mm 110100mm 110400mm 110700mm 111000mm 111300mm 111600mm 111900mm 112200mm 112500mm 112800mm 113100mm 113400mm 113700mm 114000mm 114300mm 114600mm 114900mm 115200mm 115500mm 115800mm 116100mm 116400mm 116700mm 117000mm 117300mm 117600mm 117900mm 118200mm 118500mm 118800mm 119100mm 119400mm 119700mm 120000mm 120300mm 120600mm 120900mm 121200mm 121500mm 121800mm 122100mm 122400mm 122700mm 123000mm 123300mm 123600mm 123900mm 124200mm 124500mm 124800mm 125100mm 125400mm 125700mm 126000mm 126300mm 126600mm 126900mm 127200mm 127500mm 127800mm 128100mm 128400mm 128700mm 129000mm 129300mm 129600mm 129900mm 130200mm 130500mm 130800mm 131100mm 131400mm 131700mm 132000mm 132300mm 132600mm 132900mm 133200mm 133500mm 133800mm 134100mm 134400mm 134700mm 135000mm 135300mm 135600mm 135900mm 136200mm 136500mm 136800mm 137100mm 137400mm 137700mm 138000mm 138300mm 138600mm 138900mm 139200mm 139500mm 139800mm 140100mm 140400mm 140700mm 141000mm 141300mm 141600mm 141900mm 142200mm 142500mm 142800mm 143100mm 143400mm 143700mm 144000mm 144300mm 144600mm 144900mm 145200mm 145500mm 145800mm 146100mm 146400mm 146700mm 147000mm 147300mm 147600mm 147900mm 148200mm 148500mm 148800mm 149100mm 149400mm 149700mm 150000mm 150300mm 150600mm 150900mm 151200mm 151500mm 151800mm 152100mm 152400mm 152700mm 153000mm 153300mm 153600mm 153900mm 154200mm 154500mm 154800mm 155100mm 155400mm 155700mm 156000mm 156300mm 156600mm 156900mm 157200mm 157500mm 157800mm 158100mm 158400mm 158700mm 159000mm 159300mm 159600mm 159900mm 160200mm 160500mm 160800mm 161100mm 161400mm 161700mm 162000mm 162300mm 162600mm 162900mm 163200mm 163500mm 163800mm 164100mm 164400mm 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231300mm 231600mm 231900mm 232200mm 232500mm 232800mm 233100mm 233400mm 233700mm 234000mm 234300mm 234600mm 234900mm 235200mm 235500mm 235800mm 236100mm 236400mm 236700mm 237000mm 237300mm 237600mm 237900mm 238200mm 238500mm 238800mm 239100mm 239400mm 239700mm 240000mm 240300mm 240600mm 240900mm 241200mm 241500mm 241800mm 242100mm 242400mm 242700mm 243000mm 243300mm 243600mm 243900mm 244200mm 244500mm 244800mm 245100mm 245400mm 245700mm 246000mm 246300mm 246600mm 246900mm 247200mm 247500mm 247800mm 248100mm 248400mm 248700mm 249000mm 249300mm 249600mm 249900mm 250200mm 250500mm 250800mm 251100mm 251400mm 251700mm 252000mm 252300mm 252600mm 252900mm 253200mm 253500mm 253800mm 254100mm 254400mm 254700mm 255000mm 255300mm 255600mm 255900mm 256200mm 256500mm 256800mm 257100mm 257400mm 257700mm 258000mm 258300mm 258600mm 258900mm 259200mm 259500mm 259800mm 260100mm 260400mm 260700mm 261000mm 261300mm 261600mm 261900mm 262200mm 262500mm 262800mm 263100mm 263400mm 263700mm 264000mm 264300mm 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<ul style="list-style-type: none"> Distribution Main Type Main (Sanitary/Sewer) Strategic Main Fire Supply Main Fire Main Non-Domestic Customer Service Pipe Domestic Customer Service Pipe Abandoned Main Diverted Main Aqueduct Duct Cable, Existing Cable, Optical Fibre/Instrumentation Cable, Low Voltage Cable, High Voltage Cable, Other 	<ul style="list-style-type: none"> Pumping Facility Booster Facility Potable Water Storage Water Tower Well / Borewell Inlet Water Treatment Work / Chamber Draw-off Tower Booster Plant Water Facility Connection 	<ul style="list-style-type: none"> Water Isolation Valve (Closed) Water Isolation Valve (Open) Water Isolation Valve (Partially Open) Water Air Valve Pressure Reducing Valve Pressure Sustaining Valve Non-Return Valve Floor Valve Hydrant (Single/Double) Wastout (Single/Double) Bulk Meter Water Meter Box Pressure Tapping Insertion Flow Meter Point 	<ul style="list-style-type: none"> Water Chemical Injection Point Motors Water Point Quality Sample Point Change In Characteristics Master Point Gutter Junction Knock Boundary Box Stop Sign Cross Piece Stopper Lining Post Reversal Meter 	<ul style="list-style-type: none"> Housing, Building Housing, Kiosk Housing, Other Pipe Support Structure Open Pipe Discharge End Cap 200# Area Access Point Pre-1937 Projection 	<p>MATERIALS</p> <ul style="list-style-type: none"> 100mm PVC 150mm PVC 200mm PVC 250mm PVC 300mm PVC 350mm PVC 400mm PVC 450mm PVC 500mm PVC 600mm PVC 750mm PVC 900mm PVC 1000mm PVC 1200mm PVC 1500mm PVC 1800mm PVC 2100mm PVC 2400mm PVC 2700mm PVC 3000mm PVC 3300mm PVC 3600mm PVC 3900mm PVC 4200mm PVC 4500mm PVC 4800mm PVC 5100mm PVC 5400mm PVC 5700mm PVC 6000mm PVC 6300mm PVC 6600mm PVC 6900mm PVC 7200mm PVC 7500mm PVC 7800mm PVC 8100mm PVC 8400mm PVC 8700mm PVC 9000mm PVC 9300mm PVC 9600mm PVC 9900mm PVC 10200mm PVC 10500mm PVC 10800mm PVC 11100mm PVC 11400mm PVC 11700mm PVC 12000mm PVC 12300mm PVC 12600mm PVC 12900mm PVC 13200mm PVC 13500mm PVC 13800mm PVC 14100mm PVC 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<ul style="list-style-type: none"> Distribution Main Type Main (Geography) Strategic Main Fire Supply Main Fire Main Non-Domestic Customer Service Pipe Domestic Customer Service Pipe Abandoned Main Diverted Main Aqueduct Duct Cable, Earthing Cable, Optical Fibre/Instrumentation Cable, Low Voltage Cable, High Voltage Cable, Other 	<ul style="list-style-type: none"> Pumping Facility Booster Facility Potable Water Storage Water Tower Yield Structure Water Treatment Work / Chamber Over-Off Tower Booster Point Water Facility Connection 	<ul style="list-style-type: none"> Water Isolation Valve (Closed) Water Isolation Valve (Open) Water Isolation Valve (Partially Open) Water Air Valve Pressure Reducing Valve Pressure Sustaining Valve Non-Return Valve Floor Valve Hydrant (Single/Double) Washout (Single/Double) Bulk Meter Water Hatch Box Pressure Tapping Insertion Flow Meter Point 	<ul style="list-style-type: none"> Water Chemical Injection Point Motive Water Point Quality Sample Point Change In Characteristics Marker Post Gutter Junction Road Boundary Box Right-Of-Way Strip Sign Cross Piece Stopper Laiting Post Reversal Meter 	<ul style="list-style-type: none"> Housing, Building Housing, Road Housing, Other Pipe Support Structure Open Pipe Discharge End Cap Riser Area Access Pipe Pre-1937 Projection 	<p>MATERIALS</p> <ul style="list-style-type: none"> 100mm 150mm 200mm 250mm 300mm 350mm 400mm 450mm 500mm 600mm 750mm 900mm 1050mm 1200mm 1350mm 1500mm 1650mm 1800mm 2100mm 2400mm 2700mm 3000mm 3300mm 3600mm 3900mm 4200mm 4500mm 4800mm 5100mm 5400mm 5700mm 6000mm 6300mm 6600mm 6900mm 7200mm 7500mm 7800mm 8100mm 8400mm 8700mm 9000mm 9300mm 9600mm 9900mm 10200mm 10500mm 10800mm 11100mm 11400mm 11700mm 12000mm 12300mm 12600mm 12900mm 13200mm 13500mm 13800mm 14100mm 14400mm 14700mm 15000mm 15300mm 15600mm 15900mm 16200mm 16500mm 16800mm 17100mm 17400mm 17700mm 18000mm 18300mm 18600mm 18900mm 19200mm 19500mm 19800mm 20100mm 20400mm 20700mm 21000mm 21300mm 21600mm 21900mm 22200mm 22500mm 22800mm 23100mm 23400mm 23700mm 24000mm 24300mm 24600mm 24900mm 25200mm 25500mm 25800mm 26100mm 26400mm 26700mm 27000mm 27300mm 27600mm 27900mm 28200mm 28500mm 28800mm 29100mm 29400mm 29700mm 30000mm 	<p>LINING</p> <ul style="list-style-type: none"> 100mm 150mm 200mm 250mm 300mm 350mm 400mm 450mm 500mm 550mm 600mm 650mm 700mm 750mm 800mm 850mm 900mm 950mm 1000mm 1050mm 1100mm 1150mm 1200mm 1250mm 1300mm 1350mm 1400mm 1450mm 1500mm 1550mm 1600mm 1650mm 1700mm 1750mm 1800mm 1850mm 1900mm 1950mm 2000mm 2050mm 2100mm 2150mm 2200mm 2250mm 2300mm 2350mm 2400mm 2450mm 2500mm 2550mm 2600mm 2650mm 2700mm 2750mm 2800mm 2850mm 2900mm 2950mm 3000mm
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SEVERN-TRENT WATER

Severn-Trent Water Limited
Asset Data Management
PO Box 2344
Gwentry
NP23 5PT
Telephone 0344 901 8016

WATER MAINS RECORD (TILE)

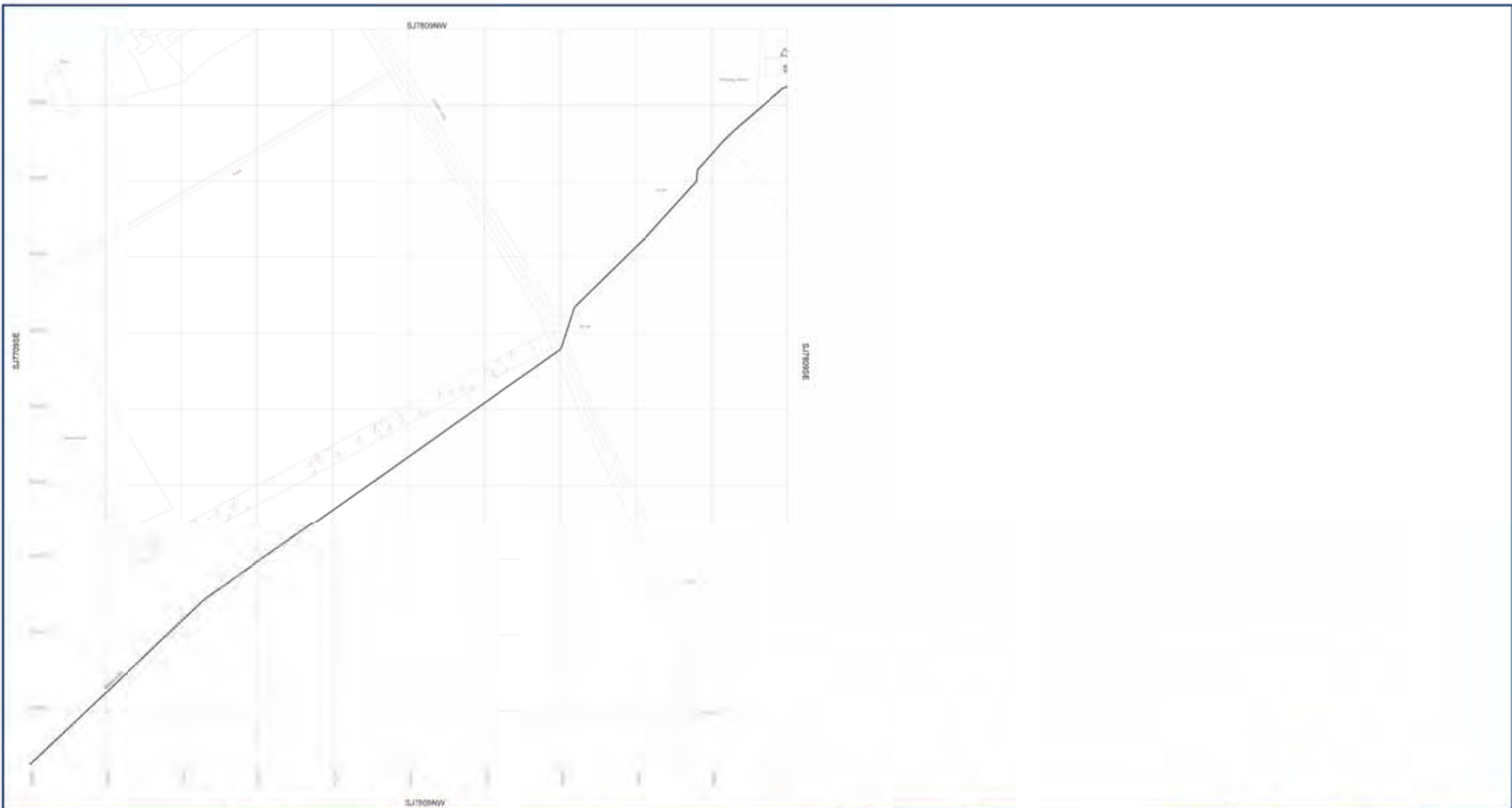
OS Map scale: 1:2500 This map is oriented upside down

Date of Issue: 16/07/19 OS Grid reference: SJ78000E

SJ78000E

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Distribution Main	Pumping Facility	Water Isolation Valve (Closed)	Water Isolation Valve (Open)	Water Isolation Valve (Partially Open)	Water Air Valve	Pressure Reducing Valve	Pressure Sustaining Valve	Non-Return Valve	Float Valve	Rigid Joint (Single/Double)	Wye Joint (Single/Double)	Bulk Meter	Water Meter Box	Pressure Tapping	Insertion Flow Meter Point	Housing Building	Housing Knot	Housing Other	Pipe Support Structure	Open Pipe	Discharge	End Cap	200ft Area	Access Pipe	Pre-1937 Projection
Type Main (asymptotic)	Sewer Facility	Water Isolation Valve (Open)	Water Isolation Valve (Partially Open)	Water Air Valve	Pressure Reducing Valve	Pressure Sustaining Valve	Non-Return Valve	Float Valve	Rigid Joint (Single/Double)	Wye Joint (Single/Double)	Bulk Meter	Water Meter Box	Pressure Tapping	Insertion Flow Meter Point	Housing Building	Housing Knot	Housing Other	Pipe Support Structure	Open Pipe	Discharge	End Cap	200ft Area	Access Pipe	Pre-1937 Projection	
Strategic Main	Potable Water Storage	Water Isolation Valve (Open)	Water Isolation Valve (Partially Open)	Water Air Valve	Pressure Reducing Valve	Pressure Sustaining Valve	Non-Return Valve	Float Valve	Rigid Joint (Single/Double)	Wye Joint (Single/Double)	Bulk Meter	Water Meter Box	Pressure Tapping	Insertion Flow Meter Point	Housing Building	Housing Knot	Housing Other	Pipe Support Structure	Open Pipe	Discharge	End Cap	200ft Area	Access Pipe	Pre-1937 Projection	
Fire Main	Water Tower	Water Isolation Valve (Open)	Water Isolation Valve (Partially Open)	Water Air Valve	Pressure Reducing Valve	Pressure Sustaining Valve	Non-Return Valve	Float Valve	Rigid Joint (Single/Double)	Wye Joint (Single/Double)	Bulk Meter	Water Meter Box	Pressure Tapping	Insertion Flow Meter Point	Housing Building	Housing Knot	Housing Other	Pipe Support Structure	Open Pipe	Discharge	End Cap	200ft Area	Access Pipe	Pre-1937 Projection	
Non-Domestic Customer Service Pipe	Valve Room	Water Isolation Valve (Open)	Water Isolation Valve (Partially Open)	Water Air Valve	Pressure Reducing Valve	Pressure Sustaining Valve	Non-Return Valve	Float Valve	Rigid Joint (Single/Double)	Wye Joint (Single/Double)	Bulk Meter	Water Meter Box	Pressure Tapping	Insertion Flow Meter Point	Housing Building	Housing Knot	Housing Other	Pipe Support Structure	Open Pipe	Discharge	End Cap	200ft Area	Access Pipe	Pre-1937 Projection	
Domestic Customer Service Pipe	Water Treatment Work / Chamber	Water Isolation Valve (Open)	Water Isolation Valve (Partially Open)	Water Air Valve	Pressure Reducing Valve	Pressure Sustaining Valve	Non-Return Valve	Float Valve	Rigid Joint (Single/Double)	Wye Joint (Single/Double)	Bulk Meter	Water Meter Box	Pressure Tapping	Insertion Flow Meter Point	Housing Building	Housing Knot	Housing Other	Pipe Support Structure	Open Pipe	Discharge	End Cap	200ft Area	Access Pipe	Pre-1937 Projection	
Abandoned Main	Drive-off Tower	Water Isolation Valve (Open)	Water Isolation Valve (Partially Open)	Water Air Valve	Pressure Reducing Valve	Pressure Sustaining Valve	Non-Return Valve	Float Valve	Rigid Joint (Single/Double)	Wye Joint (Single/Double)	Bulk Meter	Water Meter Box	Pressure Tapping	Insertion Flow Meter Point	Housing Building	Housing Knot	Housing Other	Pipe Support Structure	Open Pipe	Discharge	End Cap	200ft Area	Access Pipe	Pre-1937 Projection	
Diverted Main	Sewer Plant	Water Isolation Valve (Open)	Water Isolation Valve (Partially Open)	Water Air Valve	Pressure Reducing Valve	Pressure Sustaining Valve	Non-Return Valve	Float Valve	Rigid Joint (Single/Double)	Wye Joint (Single/Double)	Bulk Meter	Water Meter Box	Pressure Tapping	Insertion Flow Meter Point	Housing Building	Housing Knot	Housing Other	Pipe Support Structure	Open Pipe	Discharge	End Cap	200ft Area	Access Pipe	Pre-1937 Projection	
Apurfect	Water Facility Connection	Water Isolation Valve (Open)	Water Isolation Valve (Partially Open)	Water Air Valve	Pressure Reducing Valve	Pressure Sustaining Valve	Non-Return Valve	Float Valve	Rigid Joint (Single/Double)	Wye Joint (Single/Double)	Bulk Meter	Water Meter Box	Pressure Tapping	Insertion Flow Meter Point	Housing Building	Housing Knot	Housing Other	Pipe Support Structure	Open Pipe	Discharge	End Cap	200ft Area	Access Pipe	Pre-1937 Projection	
Duct		Water Isolation Valve (Open)	Water Isolation Valve (Partially Open)	Water Air Valve	Pressure Reducing Valve	Pressure Sustaining Valve	Non-Return Valve	Float Valve	Rigid Joint (Single/Double)	Wye Joint (Single/Double)	Bulk Meter	Water Meter Box	Pressure Tapping	Insertion Flow Meter Point	Housing Building	Housing Knot	Housing Other	Pipe Support Structure	Open Pipe	Discharge	End Cap	200ft Area	Access Pipe	Pre-1937 Projection	
Cable, Existing		Water Isolation Valve (Open)	Water Isolation Valve (Partially Open)	Water Air Valve	Pressure Reducing Valve	Pressure Sustaining Valve	Non-Return Valve	Float Valve	Rigid Joint (Single/Double)	Wye Joint (Single/Double)	Bulk Meter	Water Meter Box	Pressure Tapping	Insertion Flow Meter Point	Housing Building	Housing Knot	Housing Other	Pipe Support Structure	Open Pipe	Discharge	End Cap	200ft Area	Access Pipe	Pre-1937 Projection	
Cable, Optical Fibre/Transmission		Water Isolation Valve (Open)	Water Isolation Valve (Partially Open)	Water Air Valve	Pressure Reducing Valve	Pressure Sustaining Valve	Non-Return Valve	Float Valve	Rigid Joint (Single/Double)	Wye Joint (Single/Double)	Bulk Meter	Water Meter Box	Pressure Tapping	Insertion Flow Meter Point	Housing Building	Housing Knot	Housing Other	Pipe Support Structure	Open Pipe	Discharge	End Cap	200ft Area	Access Pipe	Pre-1937 Projection	
Cable, Low Voltage		Water Isolation Valve (Open)	Water Isolation Valve (Partially Open)	Water Air Valve	Pressure Reducing Valve	Pressure Sustaining Valve	Non-Return Valve	Float Valve	Rigid Joint (Single/Double)	Wye Joint (Single/Double)	Bulk Meter	Water Meter Box	Pressure Tapping	Insertion Flow Meter Point	Housing Building	Housing Knot	Housing Other	Pipe Support Structure	Open Pipe	Discharge	End Cap	200ft Area	Access Pipe	Pre-1937 Projection	
Cable, High Voltage		Water Isolation Valve (Open)	Water Isolation Valve (Partially Open)	Water Air Valve	Pressure Reducing Valve	Pressure Sustaining Valve	Non-Return Valve	Float Valve	Rigid Joint (Single/Double)	Wye Joint (Single/Double)	Bulk Meter	Water Meter Box	Pressure Tapping	Insertion Flow Meter Point	Housing Building	Housing Knot	Housing Other	Pipe Support Structure	Open Pipe	Discharge	End Cap	200ft Area	Access Pipe	Pre-1937 Projection	
Cable, Other		Water Isolation Valve (Open)	Water Isolation Valve (Partially Open)	Water Air Valve	Pressure Reducing Valve	Pressure Sustaining Valve	Non-Return Valve	Float Valve	Rigid Joint (Single/Double)	Wye Joint (Single/Double)	Bulk Meter	Water Meter Box	Pressure Tapping	Insertion Flow Meter Point	Housing Building	Housing Knot	Housing Other	Pipe Support Structure	Open Pipe	Discharge	End Cap	200ft Area	Access Pipe	Pre-1937 Projection	

SEWER TRENT WATER

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WATER MAINS RECORD (TILE)

OS Map Scale: 1:2500 This map is oriented upside down
Date of Issue: 16/07/19 O/S 716 reference

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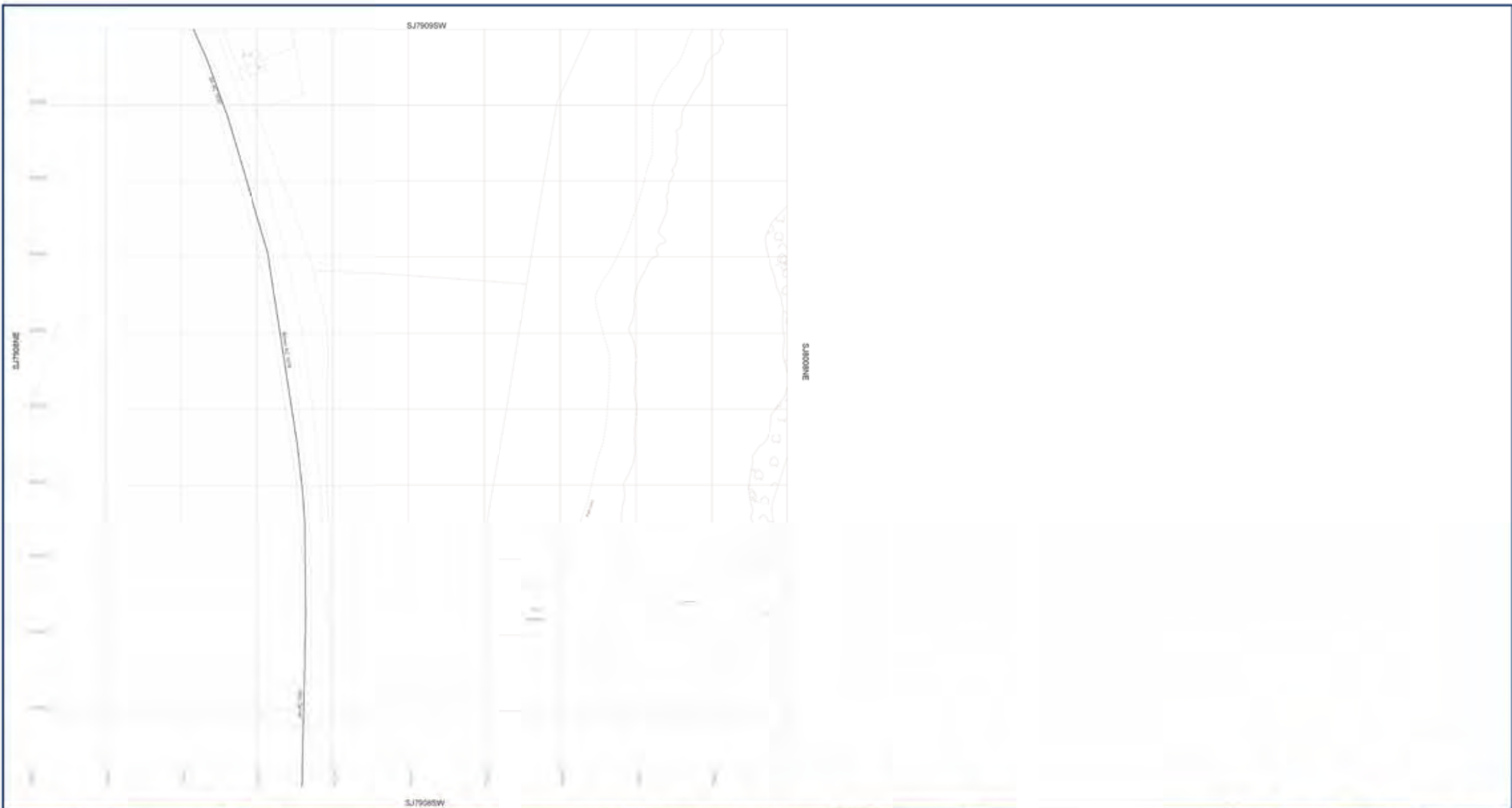
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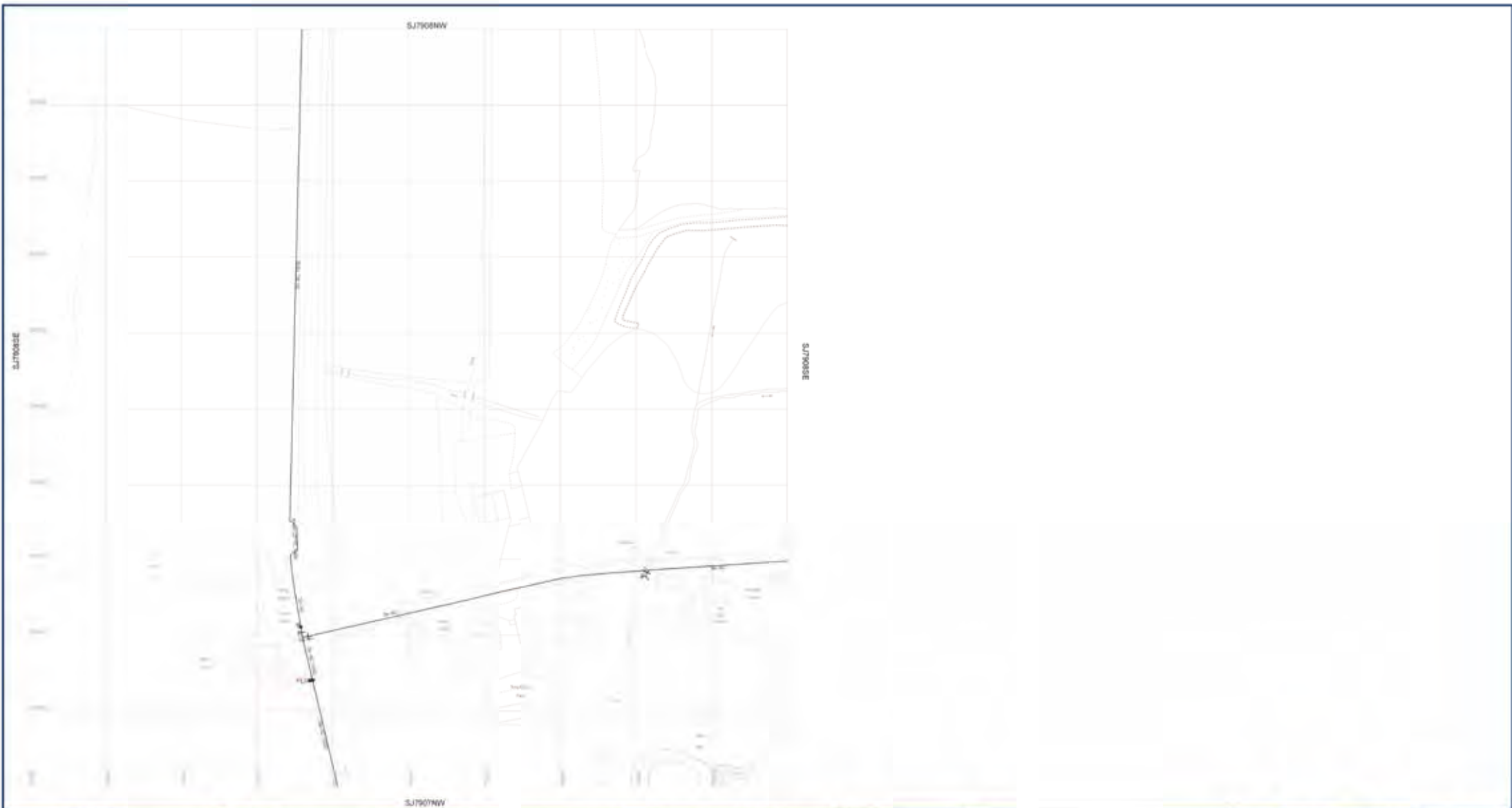
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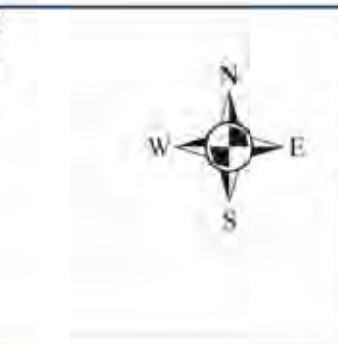


<ul style="list-style-type: none"> Distribution Main Trunk Main (curvilinear) Strategic Main Fire Supply Main Fire Main Non-Domestic Customer Service Pipe Domestic Customer Service Pipe Abandoned Main Diverted Main Aqueduct Duct Cable, Earthing Cable, Optical Fibre/Transmission Cable, Low Voltage Cable, High Voltage Cable, Other 	<ul style="list-style-type: none"> Pumping Facility Booster Facility Intake Water Storage Water Tower Valve Room ISBM Water Treatment Work / Chamber Drift-off Tower Booster Plant Water Facility Connection 	<ul style="list-style-type: none"> Water Isolation Valve (Closed) Water Isolation Valve (Open) Water Isolation Valve (Partially Open) Water Air Valve Pressure Reducing Valve Pressure Sustaining Valve Non-Return Valve Floor Valve Hydrant (Single/Double) Wastout (Single/Double) Bulk Meter Water Meter Box Pressure Tapping Insertion Flow Meter Point 	<ul style="list-style-type: none"> Water Chemical Injection Point Motive Water Point Quality Sample Point Change in Characteristics Master Point Gutter Junction Road Boundary Box Strip Sign Cross Piece Stopper Lining Post Reversal Meter 	<ul style="list-style-type: none"> Housing, Building Housing, Kiosk Housing, Other Pipe Support Structure Open Pipe Discharge End Cap ESB Area Access Pipe Pre-1937 Properties 	<p>MATERIALS</p> <ul style="list-style-type: none"> 100mm PVC 150mm PVC 200mm PVC 250mm PVC 300mm PVC 350mm PVC 400mm PVC 450mm PVC 500mm PVC 600mm PVC 750mm PVC 900mm PVC 1050mm PVC 1200mm PVC 1350mm PVC 1500mm PVC 1650mm PVC 1800mm PVC 2100mm PVC 2400mm PVC 2700mm PVC 3000mm PVC 3300mm PVC 3600mm PVC 3900mm PVC 4200mm PVC 4500mm PVC 4800mm PVC 5100mm PVC 5400mm PVC 5700mm PVC 6000mm PVC 6300mm PVC 6600mm PVC 6900mm PVC 7200mm PVC 7500mm PVC 7800mm PVC 8100mm PVC 8400mm PVC 8700mm PVC 9000mm PVC 9300mm PVC 9600mm PVC 9900mm PVC 10200mm PVC 10500mm PVC 10800mm PVC 11100mm PVC 11400mm PVC 11700mm PVC 12000mm PVC 12300mm PVC 12600mm PVC 12900mm PVC 13200mm PVC 13500mm PVC 13800mm PVC 14100mm 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<ul style="list-style-type: none"> Distribution Main Type Main (curatynthetic) Strategic Main Fire Supply Main Fire Main Non-Domestic Customer Service Pipe Domestic Customer Service Pipe Abandoned Main Diverted Main Aqueduct Duct Cable, Earthing Cable, Optical Fibre/communication Cable, Low Voltage Cable, High Voltage Cable, Other 	<ul style="list-style-type: none"> Pumping Facility Booster Facility Potable Water Storage Water Tower Yield Point Water Treatment Work / Chamber Over-Off Tower Booster Plant Water Facility Connector 	<ul style="list-style-type: none"> Water Isolation Valve (Closed) Water Isolation Valve (Open) Water Isolation Valve (Partially Open) Water Air Valve Pressure Reducing Valve Pressure Sustaining Valve Non-Return Valve Floor Valve Hydrant (Single/Double) Waterout (Single/Double) Bulk Meter Water Hatch Box Pressure Tapping Insertion Flow Meter Point 	<ul style="list-style-type: none"> Water Chemical Injection Point Motive Water Point Quality Sample Point Change in Characteristics Marker Post Cable Junction Anode Boundary Box Stop Tap Cross Piece Stopper Laiting Post Reverse Meter 	<ul style="list-style-type: none"> Housing, Building Housing, Road Housing, Other Pipe Support Structure Open Pipe Discharge End Cap 200l Area Access Point Pre-1937 Properties
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MATERIALS	LINING
<ul style="list-style-type: none"> 100mm 150mm 200mm 250mm 300mm 350mm 400mm 450mm 500mm 600mm 750mm 900mm 1050mm 1200mm 1350mm 1500mm 1800mm 2100mm 2400mm 2700mm 3000mm 3600mm 4200mm 4800mm 5400mm 6000mm 6600mm 7200mm 7800mm 8400mm 9000mm 9600mm 10200mm 10800mm 11400mm 12000mm 12600mm 13200mm 13800mm 14400mm 15000mm 15600mm 16200mm 16800mm 17400mm 18000mm 18600mm 19200mm 19800mm 20400mm 21000mm 21600mm 22200mm 22800mm 23400mm 24000mm 24600mm 25200mm 25800mm 26400mm 27000mm 27600mm 28200mm 28800mm 29400mm 30000mm 	<ul style="list-style-type: none"> 100mm 150mm 200mm 250mm 300mm 350mm 400mm 450mm 500mm 600mm 750mm 900mm 1050mm 1200mm 1350mm 1500mm 1800mm 2100mm 2400mm 2700mm 3000mm 3600mm 4200mm 4800mm 5400mm 6000mm 6600mm 7200mm 7800mm 8400mm 9000mm 9600mm 10200mm 10800mm 11400mm 12000mm 12600mm 13200mm 13800mm 14400mm 15000mm 15600mm 16200mm 16800mm 17400mm 18000mm 18600mm 19200mm 19800mm 20400mm 21000mm 21600mm 22200mm 22800mm 23400mm 24000mm 24600mm 25200mm 25800mm 26400mm 27000mm 27600mm 28200mm 28800mm 29400mm 30000mm





Sewer Trent Water Limited
Asset Data Management
PO Box 2344
Gunsbury
CV21 4PT
Telephone 0246 501 6016

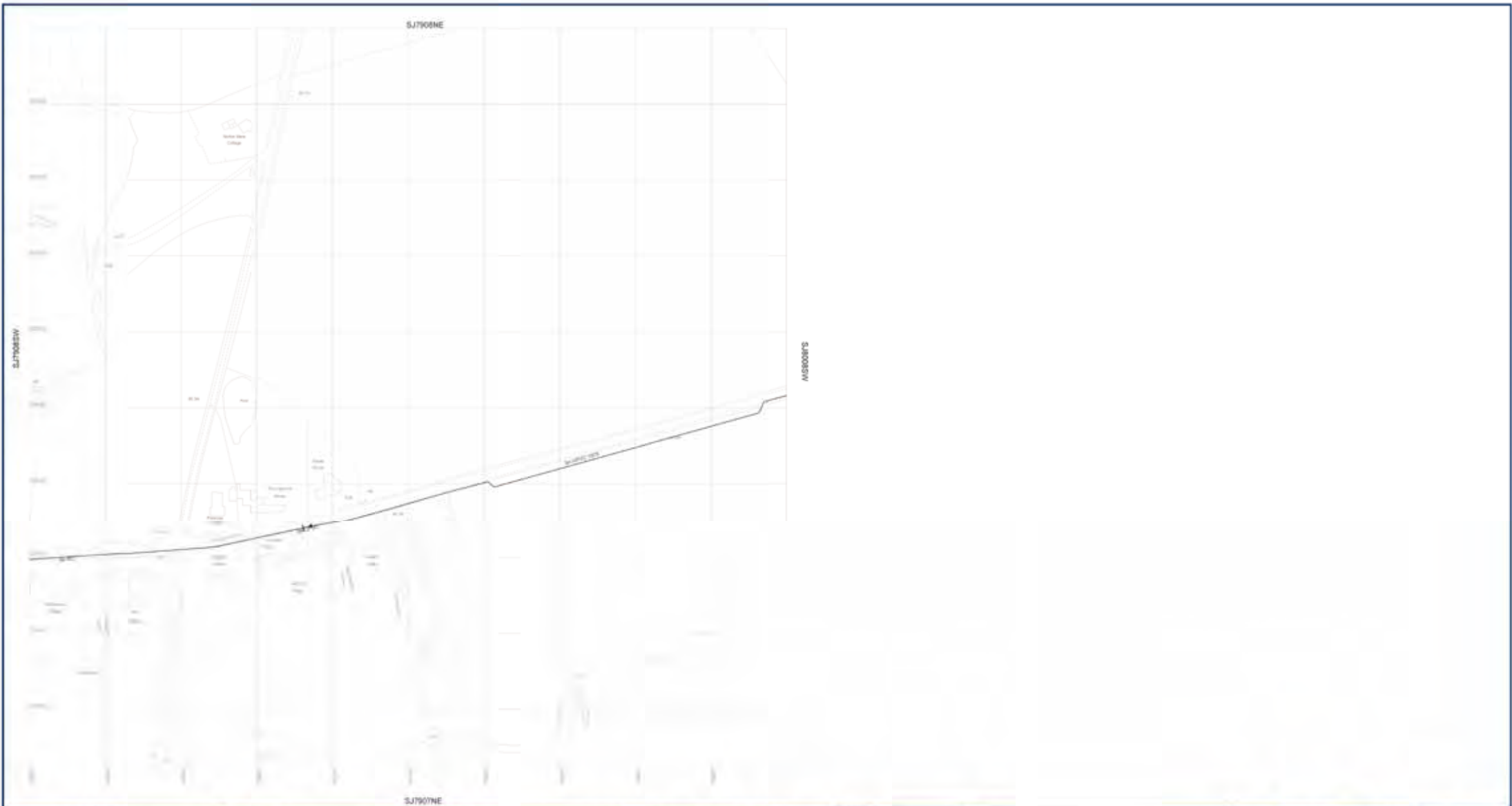
WATER MAINS RECORD (TILE)

OS Map scale: 1:2500 This map is oriented upside down
Date of Issue: 16/07/19 OS 2716 reference

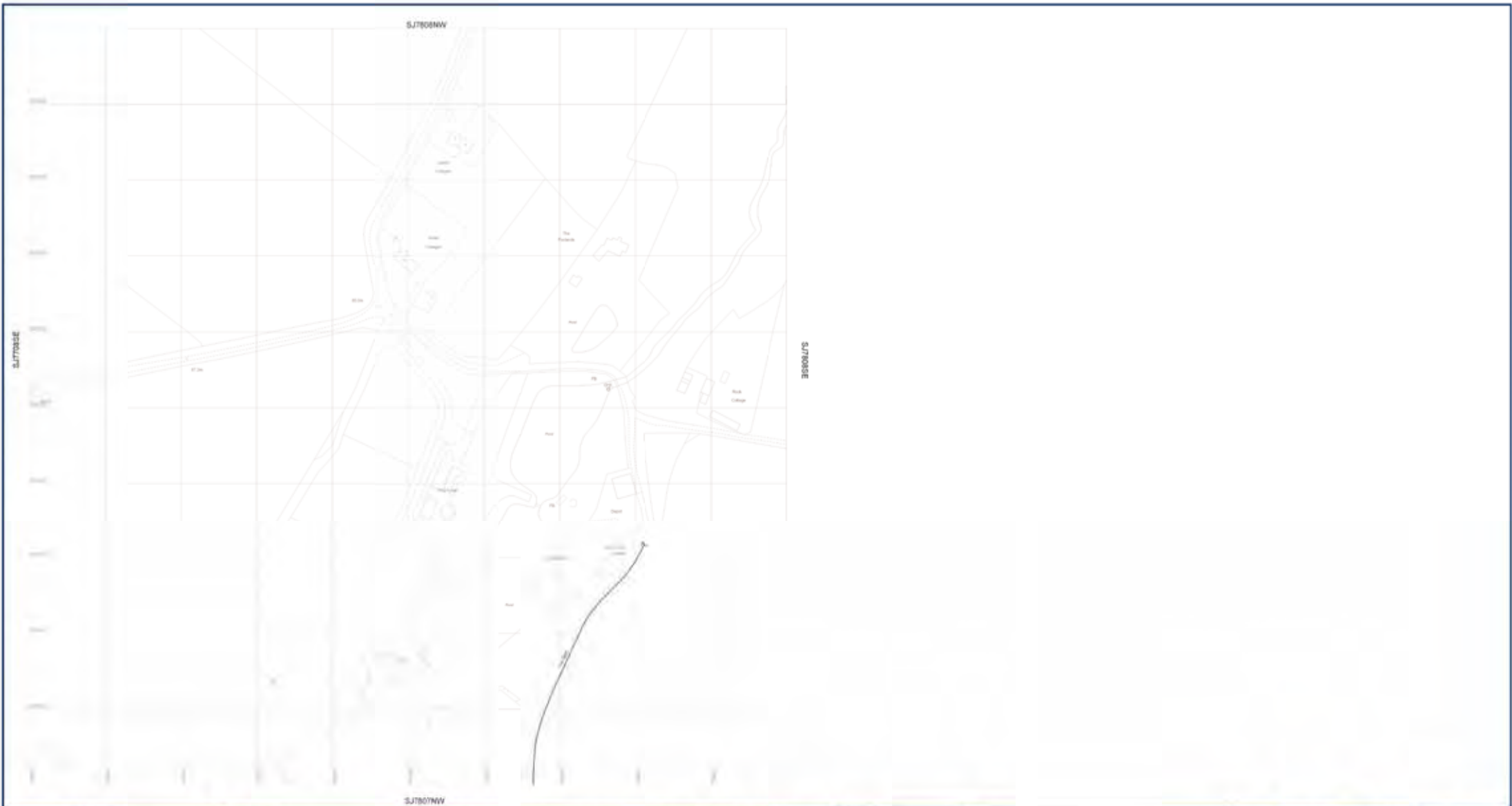
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Disclaimer

- The user hereby certifies that they have read and understood the terms and conditions of this agreement and agree to be bound by them.
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Distribution Main	Pumping Facility	Water Isolation Valve (Closed)	Water Chemical Injection Point
Transmission Main (Overhead)	Storage Facility	Water Isolation Valve (Open)	Meter Water Point
Strategic Main	Potable Water Storage	Water Isolation Valve (Partially Open)	Quality Sample Point
Fire Supply Main	Water Tower	Water Air Valve	Change in Characteristics
Fire Main	Well / Borehole	Pressure Reducing Valve	Meter Flush
Non-Domestic Customer Service Pipe	Water Treatment Works / Chamber	Pressure Sustaining Valve	Gate Junction
Domestic Customer Service Pipe	Water Treatment Works / Chamber	Non-Return Valve	Road
Abandoned Main	Drift-off Tower	Float Valve	End Cap
Diverted Main	Storage Point	Rigidant (Single/Double)	RSP Arks
Aqueduct	Water Facility Connection	Without (Single/Double)	Access Pipe
Duct		Stop Sign	Pre-1937 Projection
Cable, Earthing		Cross Piece	
Cable, Optical Fibre/Transmission		Stopper	
Cable, Low Voltage		Draining Post	
Cable, High Voltage		Pressure Tapping	
Cable, Other		Insertion Flow Meter Point	
		Reverse Meter	

MATERIALS	
	100mm PVC
	150mm PVC
	200mm PVC
	250mm PVC
	300mm PVC
	350mm PVC
	400mm PVC
	450mm PVC
	500mm PVC
	600mm PVC
	700mm PVC
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	1200mm PVC
	1500mm PVC
	1800mm PVC
	2100mm PVC
	2400mm PVC
	2700mm PVC
	3000mm PVC
	3300mm PVC
	3600mm PVC
	3900mm PVC
	4200mm PVC
	4500mm PVC
	4800mm PVC
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	114000mm PVC
	114300mm PVC
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	115200mm PVC
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	116100mm PVC
	116400mm PVC
	116700mm PVC
	117000mm PVC
	117300mm PVC
	117600mm PVC
	117900mm PVC
	118200mm PVC



<ul style="list-style-type: none"> Distribution Main Trunk Main (usually heavy) Strategic Main Fire Supply Main Fire Main Non-Domestic Customer Service Pipe Domestic Customer Service Pipe Abandoned Main Diverted Main Aqueduct Duct Cable, Earthing Cable, Optical Fibre/telecommunication Cable, Low Voltage Cable, High Voltage Cable, Other 	<ul style="list-style-type: none"> Pumping Facility Booster Facility Intake Water Storage Water Tower Valve Enclosure Water Treatment Work / Chamber Over-Flow Tower Booster Plant Water Facility Commission 	<ul style="list-style-type: none"> Water Isolation Valve (Closed) Water Isolation Valve (Open) Water Isolation Valve (Partially Open) Water Air Valve Pressure Reducing Valve Pressure Sustaining Valve Non-Return Valve Flap Valve Hydrant (Single/Double) Washout (Single/Double) Stopcock Water Hatch Box Pressure Tapping Insertion Flow Meter Point 	<ul style="list-style-type: none"> Water Chemical Injection Point Motors Water Point Quality Sample Point Change In Characteristics Marker Post Gutter Junction Road Boundary Box Right-Of-Way (Single/Double) Strip Sign Cross Piece Stopper Laiting Post Reversal Meter 	<ul style="list-style-type: none"> Housing, Building Housing, Kiosk Housing, Other Pipe Support Structure Open Pipe Discharge End Cap 2000 Area Access Point Pre-1937 Properties
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MATERIALS	LINING
<ul style="list-style-type: none"> 100mm 150mm 200mm 250mm 300mm 350mm 400mm 450mm 500mm 600mm 750mm 900mm 1050mm 1200mm 1350mm 1500mm 1800mm 2100mm 2400mm 2700mm 3000mm 3600mm 4200mm 4800mm 5400mm 6000mm 6600mm 7200mm 7800mm 8400mm 9000mm 9600mm 10200mm 10800mm 11400mm 12000mm 12600mm 13200mm 13800mm 14400mm 15000mm 15600mm 16200mm 16800mm 17400mm 18000mm 18600mm 19200mm 19800mm 20400mm 21000mm 21600mm 22200mm 22800mm 23400mm 24000mm 24600mm 25200mm 25800mm 26400mm 27000mm 27600mm 28200mm 28800mm 29400mm 30000mm 	<ul style="list-style-type: none"> 100mm 150mm 200mm 250mm 300mm 350mm 400mm 450mm 500mm 600mm 750mm 900mm 1050mm 1200mm 1350mm 1500mm 1800mm 2100mm 2400mm 2700mm 3000mm 3600mm 4200mm 4800mm 5400mm 6000mm 6600mm 7200mm 7800mm 8400mm 9000mm 9600mm 10200mm 10800mm 11400mm 12000mm 12600mm 13200mm 13800mm 14400mm 15000mm 15600mm 16200mm 16800mm 17400mm 18000mm 18600mm 19200mm 19800mm 20400mm 21000mm 21600mm 22200mm 22800mm 23400mm 24000mm 24600mm 25200mm 25800mm 26400mm 27000mm 27600mm 28200mm 28800mm 29400mm 30000mm



SEVERN-TRENT WATER

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NP23 5PT
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WATER MAINS RECORD (TILE)

OS Map Scale: 1:2500 This map is oriented upside down

Date of Issue: 16/07/19 S 2 This reference

S177079E

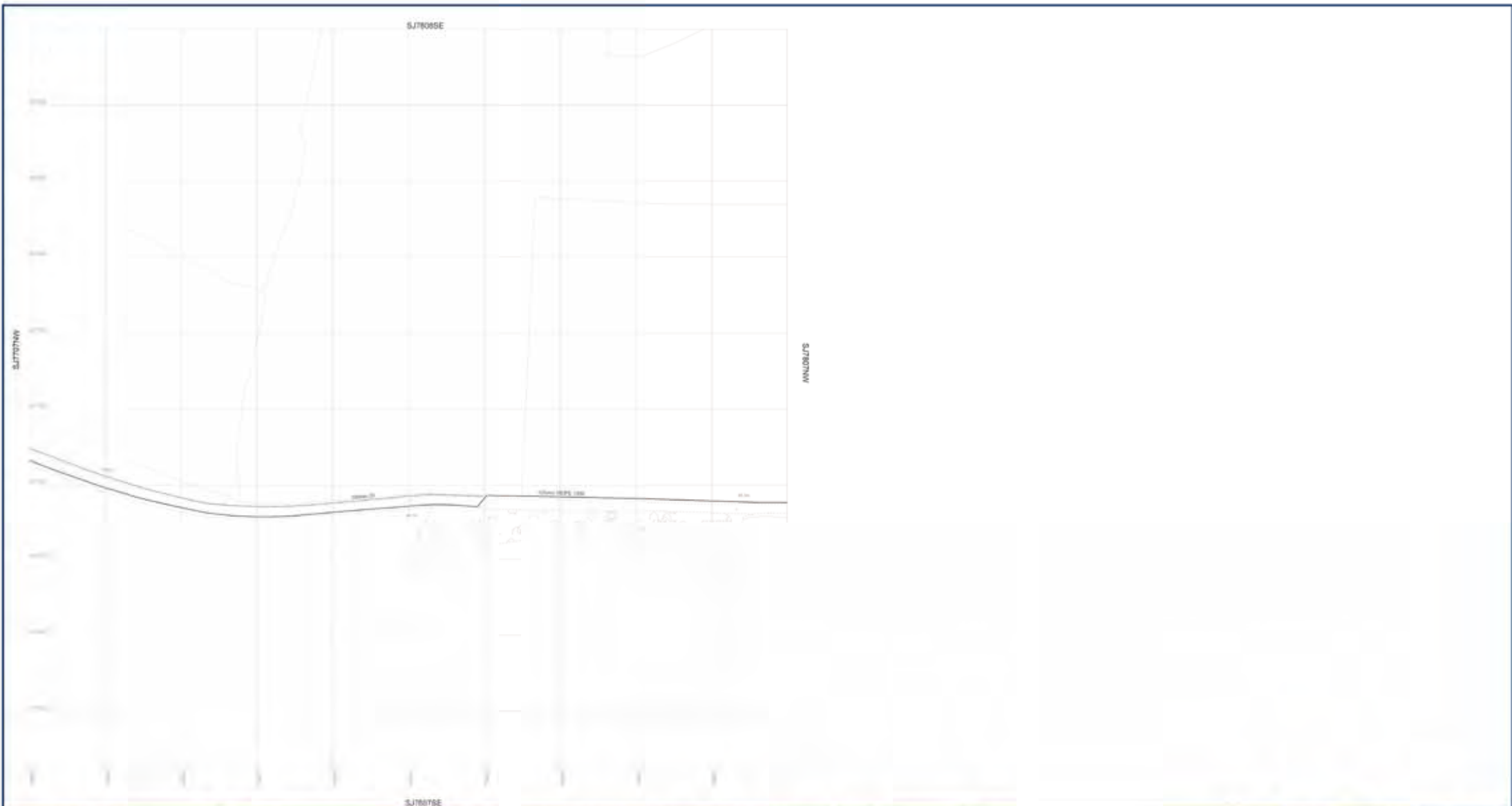
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Distribution Main	Pumping Facility	Water Isolation Valve (Closed)	Water Chemical Injection Point
Type Main (Sanitary/High)	Sewer Facility	Water Isolation Valve (Open)	Meter Water Point
Strategic Main	Potable Water Storage	Water Isolation Valve (Partially Open)	Quality Sample Point
Fire Supply Main	Water Tower	Water Air Valve	Change in Characteristics
Fire Main	Valve Room	Pressure Reducing Valve	Meter Post
Non-Domestic Customer Service Pipe	Valve	Pressure Sustaining Valve	Gate Junction
Domestic Customer Service Pipe	Water Treatment Work / Chamber	Non-Return Valve	Road
Abandoned Main	Drive-Off Tower	Floor Valve	Boundary Box
Diverted Main	Sewer Plant	Hydrant (Single/Double)	Stop Tap
Aqueduct	Water Facility Connection	Without (Single/Double)	Cross Piece
Duct		Bulk Meter	Stopper
Cable, Earthing		Water Hatch Box	Lining Post
Cable, Optical Fibre/Transmission		Pressure Tapping	Inverted Flow Meter Point
Cable, Low Voltage		Inverted Flow Meter Point	
Cable, High Voltage			
Cable, Other			

Housing, Building	MATERIALS	LINING
Housing, Kiosk	150mm PVC	150mm PVC
Housing, Other	100mm PVC	100mm PVC
Pipe Support Structure	75mm PVC	75mm PVC
Open Pipe	50mm PVC	50mm PVC
Discharge	25mm PVC	25mm PVC
End Cap	15mm PVC	15mm PVC
2000 Area	10mm PVC	10mm PVC
Access Pipe	5mm PVC	5mm PVC
Pre-1937 Projection	2.5mm PVC	2.5mm PVC



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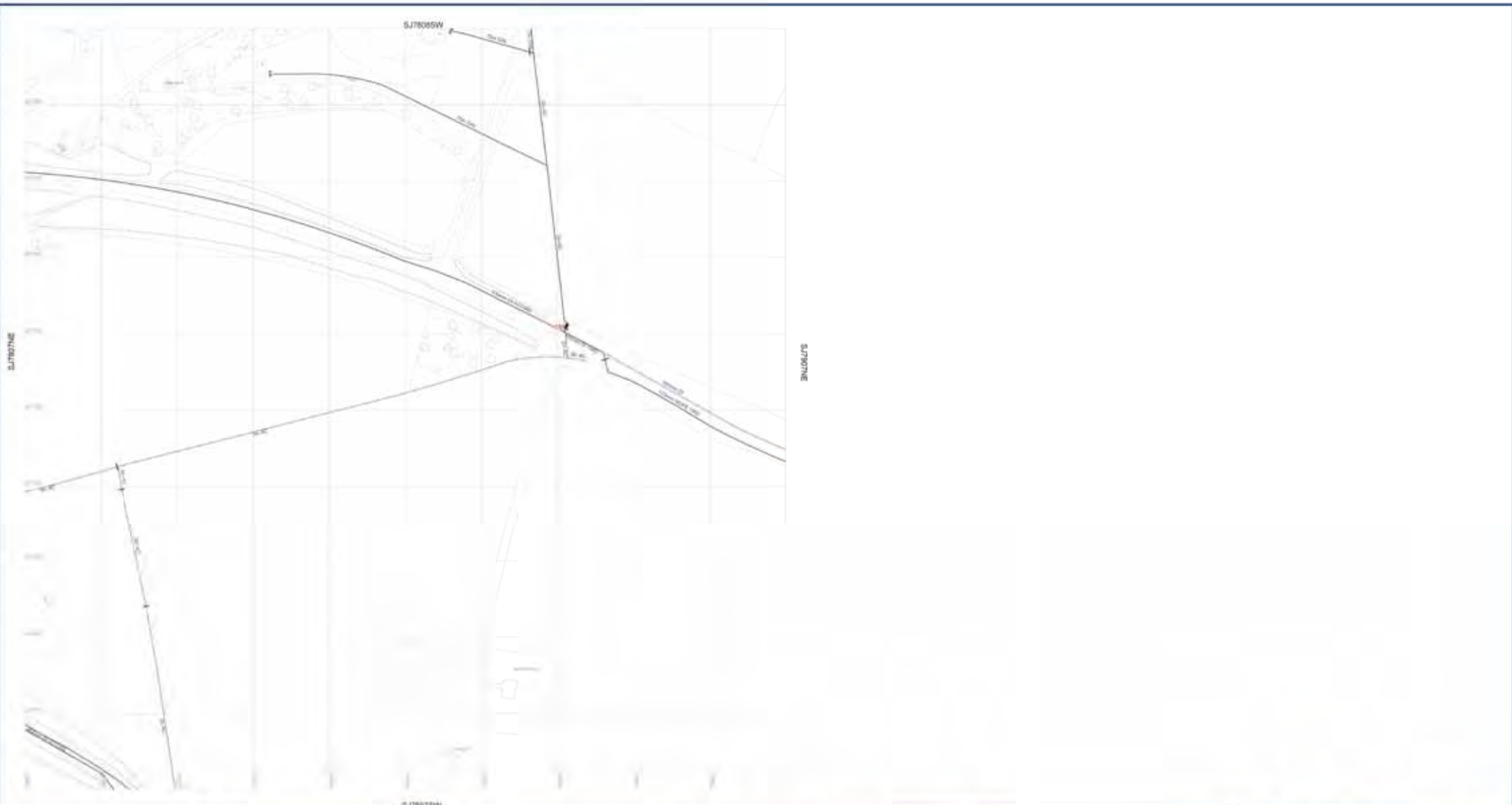
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	Distribution Main
	Trunk Main (Locality/High)
	Strategic Main
	Fire Supply Main
	Fire Main
	Non-Domestic Customer Service Pipe
	Domestic Customer Service Pipe
	Abandoned Main
	Diverted Main
	Appurtenant
	Duct
	Cable, Earthing
	Cable, Optical Fibre/Transmission
	Cable, Low Voltage
	Cable, High Voltage
	Cable, Other

	Pumping Facility
	Booster Facility
	Potable Water Storage
	Water Tower
	Valve Chamber
	ISOM
	Water Treatment Works Chamber
	Drift-off Tower
	Booster Plant
	Water Facility Controller

	Water Isolation Valve (Closed)
	Water Isolation Valve (Open)
	Water Isolation Valve (Partially Open)
	Water Air Valve
	Pressure Reducing Valve
	Pressure Sustaining Valve
	Non-Return Valve
	Flap Valve
	Hydrant (Single/Double)
	Hydrant (Single/Double)
	Washout (Single/Double)
	Bulk Meter
	Water Hatch Box
	Pressure Tapping
	Insertion Flow Meter Point

	Water Chemical Injection Point
	Motive Water Point
	Quality Sample Point
	Change in Characteristics
	Marker Post
	Gate Junction
	Roach
	Boundary Box
	Stop Sign
	Cross Piece
	Stopper
	Laiting Post
	Pressure Tapping
	Reverse Meter

	Housing, Building
	Housing, Kiosk
	Housing, Other
	Pipe Support Structure
	Open Pipe
	Discharge
	End Cap
	Riser Arise
	Access Pipe
	Pre-1837 Projection

MATERIALS	
	Cast Iron
	Steel
	Concrete
	Asphalt
	Brick
	Block
	Clay
	Plastic
	Aluminum
	Copper
	Lead
	Galvanized Steel
	Stainless Steel
	Other

LIRING	
	Asphalt
	Concrete
	Brick
	Block
	Clay
	Plastic
	Aluminum
	Copper
	Lead
	Galvanized Steel
	Stainless Steel
	Other



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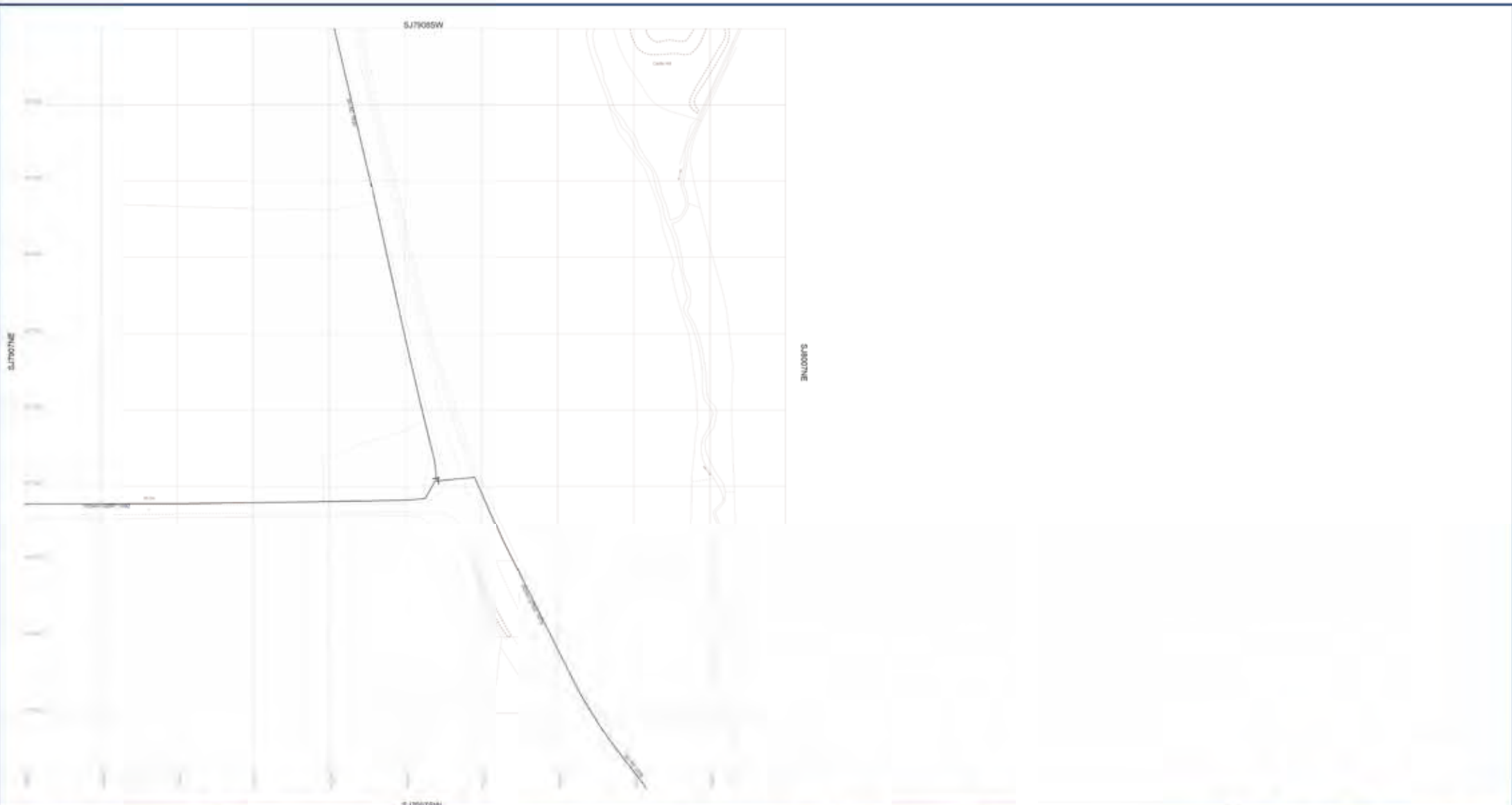
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	Distribution Main
	Trunk Main (Locality/Utility)
	Strategic Main
	Fire Supply Main
	Fire Main
	Non-Domestic Customer Service Pipe
	Domestic Customer Service Pipe
	Abandoned Main
	Disused Main
	Asymfuct
	Duct
	Cable, Earthing
	Cable, Optical Fibre/Administration
	Cable, Low Voltage
	Cable, High Voltage
	Cable, Other

	Pumping Facility
	Booster Facility
	Intake Water Storage
	Water Tower
	Valve Enclosure
	ISOM
	Water Treatment Work / Chamber
	Driver Off Tower
	Booster Plant
	Water Facility Connection

	Water Isolation Valve (Closed)
	Water Isolation Valve (Open)
	Water Isolation Valve (Partially Open)
	Water Air Valve
	Pressure Reducing Valve
	Pressure Sustaining Valve
	Non-Return Valve
	Floor Valve
	Hydrant (Single/Double)
	Wastout (Single/Double)
	Bulk Meter
	Water Hatch Box
	Pressure Tapping
	Insertion Flow Meter Point

	Water Chemical Injection Point
	Manhole Water Point
	Quality Sample Point
	Change In Characteristics
	Marker Post
	Gutter Junction
	Grade
	Boundary Box
	Strip Sign
	Cross Piece
	Stopper
	Lining Post
	Reversal Meter

	Housing, Building
	Housing, Kiosk
	Housing, Other
	Pipe Support Structure
	Open Pipe
	Discharge
	End Cap
	200l Area
	Access Point
	Pre-1937 Projection

MATERIALS	
	Cast Iron
	Steel
	Concrete
	Asphalt
	Clay
	Brick
	Block
	Stone
	Gravel
	Sand
	Earth
	Rock
	Wood
	Plastic
	Other

LINING	
	Asphalt
	Concrete
	Clay
	Brick
	Block
	Stone
	Gravel
	Sand
	Earth
	Rock
	Wood
	Plastic
	Other





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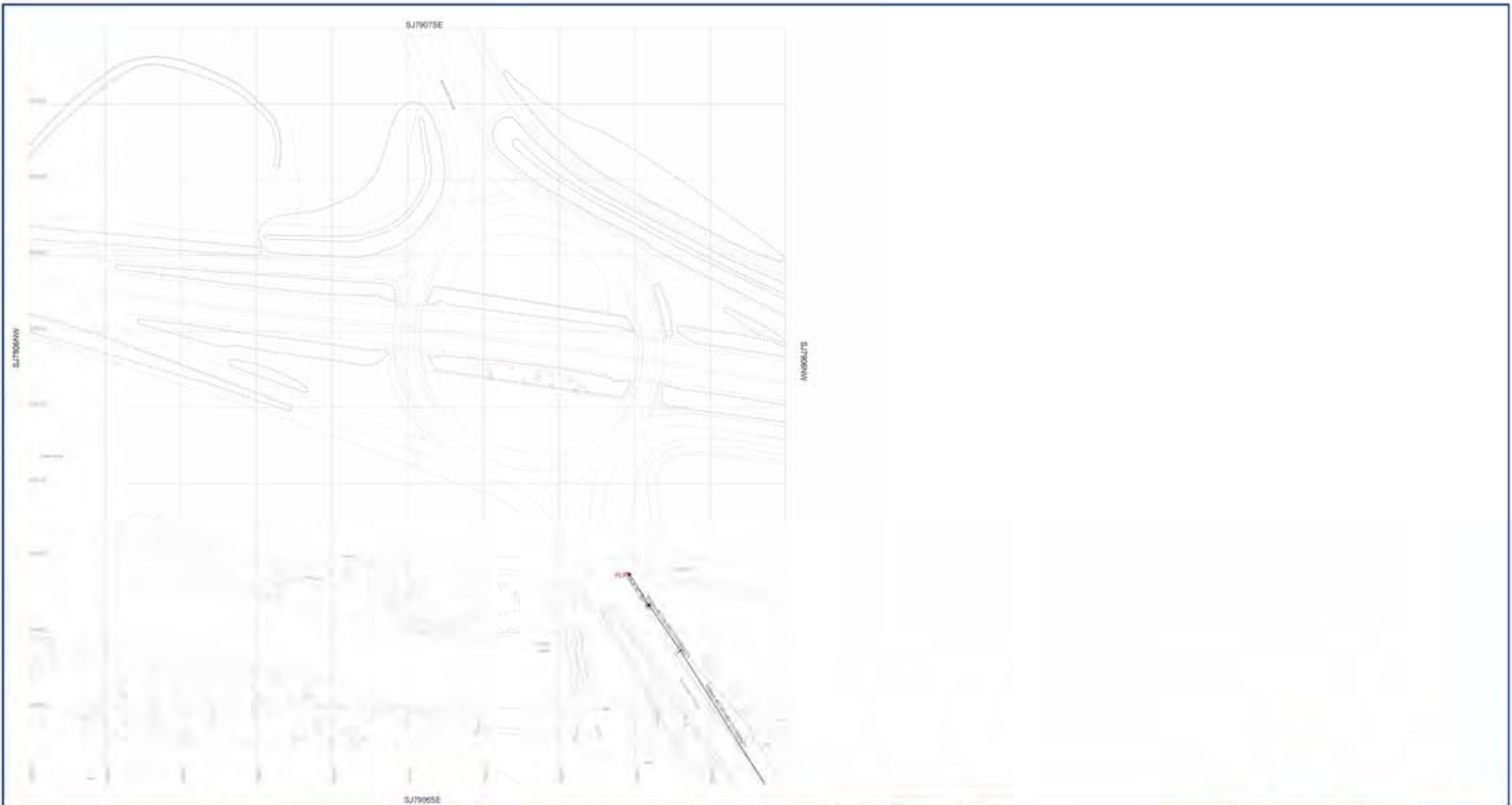
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<ul style="list-style-type: none"> Distribution Main Type Main (Geography) Strategic Main Fire Supply Main Fire Main Non-Domestic Customer Service Pipe Domestic Customer Service Pipe Abandoned Main Diverted Main Aqueduct Duct Cable, Earthing Cable, Optical Fibre/communication Cable, Low Voltage Cable, High Voltage Cable, Other 	<ul style="list-style-type: none"> Pumping Facility Booster Facility Potable Water Storage Water Tower Yield Structure Water Treatment Work / Chamber Drain-off Tower Booster Plant Water Facility Commission 	<ul style="list-style-type: none"> Water Isolation Valve (Closed) Water Isolation Valve (Open) Water Isolation Valve (Partially Open) Water Air Valve Pressure Reducing Valve Pressure Sustaining Valve Non-Return Valve Floor Valve Hydrant (Single/Double) Wristout (Single/Double) Bulk Meter Water Hatch Box Pressure Tapping Insertion Flow Meter Point 	<ul style="list-style-type: none"> Water Chemical Injection Point Motus Water Point Quality Sample Point Change In Characteristics Marker Post Gutter Junction Arise Boundary Box Strip Sign Cross Piece Stopper Lining Post Reversal Meter 	<ul style="list-style-type: none"> Housing, Building Housing, Kiosk Housing, Other Pipe Support Structure Open Pipe Discharge End Cap 2001 Area Access Point Pre-1937 Projection 	<p>MATERIALS</p> <ul style="list-style-type: none"> 100mm PVC 150mm PVC 200mm PVC 250mm PVC 300mm PVC 350mm PVC 400mm PVC 450mm PVC 500mm PVC 600mm PVC 750mm PVC 900mm PVC 1050mm PVC 1200mm PVC 1500mm PVC 1800mm PVC 2100mm PVC 2400mm PVC 2700mm PVC 3000mm PVC 3300mm PVC 3600mm PVC 3900mm PVC 4200mm PVC 4500mm PVC 4800mm PVC 5100mm PVC 5400mm PVC 5700mm PVC 6000mm PVC 6300mm PVC 6600mm PVC 6900mm PVC 7200mm PVC 7500mm PVC 7800mm PVC 8100mm PVC 8400mm PVC 8700mm PVC 9000mm PVC 9300mm PVC 9600mm PVC 9900mm PVC 10200mm PVC 10500mm PVC 10800mm PVC 11100mm PVC 11400mm PVC 11700mm PVC 12000mm PVC 12300mm PVC 12600mm PVC 12900mm PVC 13200mm PVC 13500mm PVC 13800mm PVC 14100mm PVC 14400mm PVC 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PVC 205800mm PVC 206100mm PVC 206400mm PVC 206700mm PVC 207000mm PVC 207300mm PVC 207600mm PVC 207900mm PVC 208200mm PVC 208500mm PVC 208800mm PVC 209100mm PVC 209400mm PVC 209700mm PVC 210000mm PVC 210300mm PVC 210600mm PVC 210900mm PVC 211200mm PVC 211500mm PVC 211800mm PVC 212100mm PVC 212400mm PVC 212700mm PVC 213000mm PVC 213300mm PVC 213600mm PVC 213900mm PVC 214200mm PVC 214500mm PVC 214800mm PVC 215100mm PVC 215400mm PVC 215700mm PVC 216000mm PVC 216300mm PVC 216600mm PVC 216900mm PVC 217200mm PVC 217500mm PVC 217800mm PVC 218100mm PVC 218400mm PVC 218700mm PVC 219000mm PVC 219300mm PVC 219600mm PVC 219900mm PVC 220200mm PVC 220500mm PVC 220800mm PVC 221100mm PVC 221400mm PVC 221700mm PVC 222000mm PVC 222300mm PVC 222600mm PVC 222900mm PVC 223200mm PVC 223500mm PVC 223800mm PVC 224100mm PVC 224400mm PVC 224700mm PVC 225000mm PVC 225300mm PVC 225600mm PVC 225900mm PVC 226200mm PVC 226500mm PVC 226800mm PVC 227100mm PVC 227400mm PVC 227700mm PVC 228000mm PVC 228300mm PVC 228600mm 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PVC 252000mm PVC 252300mm PVC 252600mm
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Distribution Main	Pumping Facility	Water Isolation Valve (Closed)	Water Chemical Injection Point
Trunk Main (local/primary)	Booster Facility	Water Isolation Valve (Open)	Mains Water Point
Strategic Main	Potable Water Storage	Water Isolation Valve (Partially Open)	Quality Sample Point
Fire Supply Main	Water Tower	Water Air Valve	Change in Characteristics
Fire Main	Valve / Bonnet	Pressure Reducing Valve	Marker Post
Non-Domestic Customer Service Pipe	Isolate	Pressure Sustaining Valve	Gully Junction
Domestic Customer Service Pipe	Water Treatment Work / Chamber	Non-Return Valve	Anode
Abandoned Main	Drive-Off Tower	Float Valve	Boundary Box
Diverted Main	Booster Point	Hydrant (Single/Double)	Stop Tap
Aqueduct	Water Facility Connection	Washout (Single/Double)	Cross Piece
Duct		Bulk Meter	Stopper
Cable, Earthing		Water Hatch Box	Laiting Post
Cable, Optical Fibre/Instrumentation		Pressure Tapping	Reverse Meter
Cable, Low Voltage		Insertion Flow Meter Point	
Cable, High Voltage			
Cable, Other			

Housing, Building	MATERIALS	LINING
Housing, Kiosk	100mm dia. 150mm dia.	100mm dia.
Housing, Chel	150mm dia.	150mm dia.
Pipe Support Structure	200mm dia.	200mm dia.
Open Pipe	250mm dia.	250mm dia.
Discharge	300mm dia.	300mm dia.
End Cap	350mm dia.	350mm dia.
200mm Area	400mm dia.	400mm dia.
Access Pipe	450mm dia.	450mm dia.
Pre-1937 Projectiles	500mm dia.	500mm dia.



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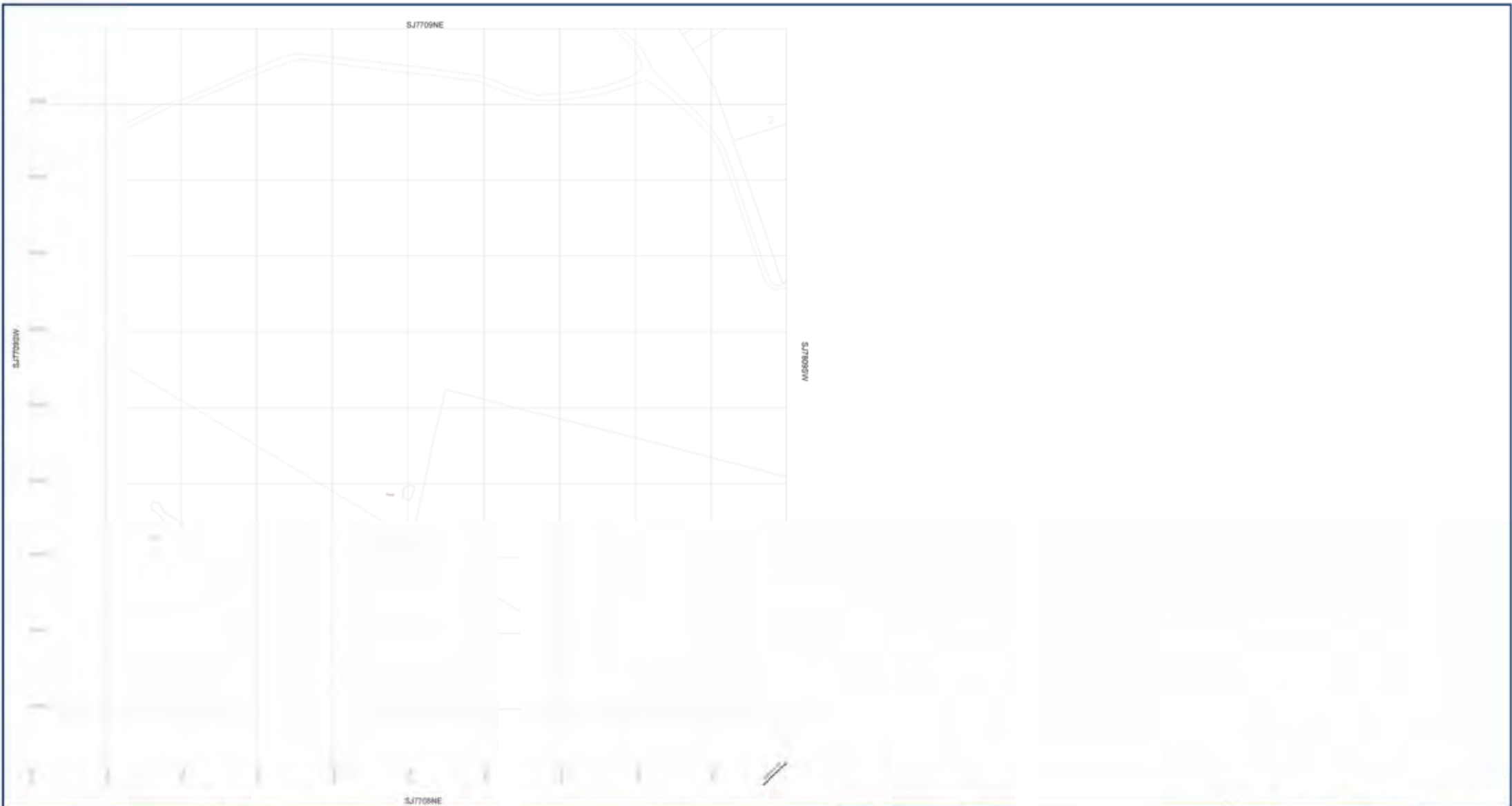
WATER MAINS RECORD (TILE)

OS Map scale: 1:2500 This map is oriented upside down
 Date of Issue: 16/07/19 © S TWS reference

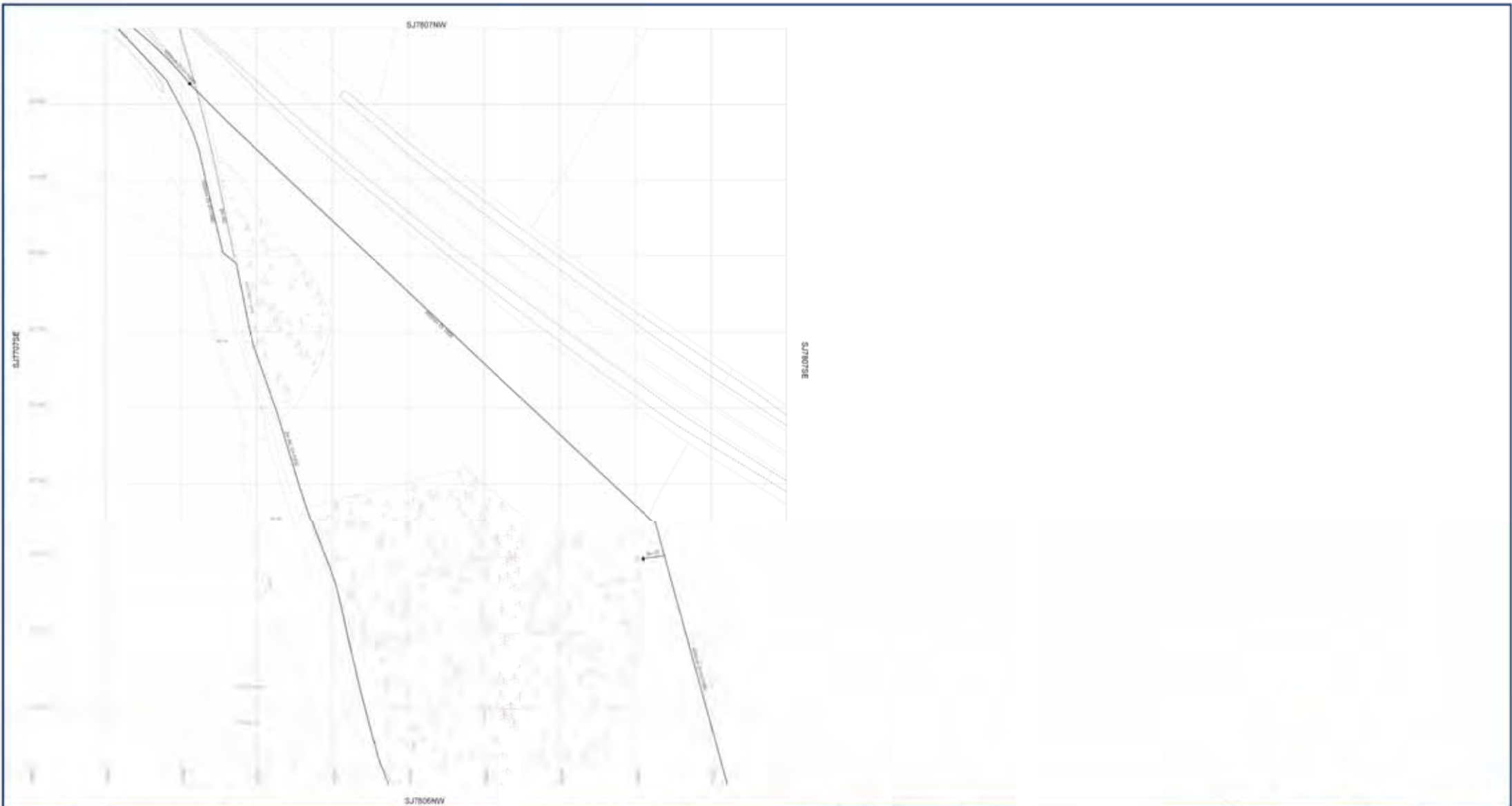
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<ul style="list-style-type: none"> Distribution Main Trunk Main (asymptotic) Strategic Main Fire Supply Main Fire Main Non-Domestic Customer Service Pipe Domestic Customer Service Pipe Abandoned Main Diverted Main Aqueduct Duct Cable, Earthing Cable, Optical Fibre/Transmission Cable, Low Voltage Cable, High Voltage Cable, Other 	<ul style="list-style-type: none"> Pumping Facility Booster Facility Intake Water Storage Water Tower Valve Room Water Treatment Work / Chamber Over-Flow Tower Booster Plant Water Facility Compound 	<ul style="list-style-type: none"> Water Isolation Valve (Closed) Water Isolation Valve (Open) Water Isolation Valve (Partially Open) Water Air Valve Pressure Reducing Valve Pressure Sustaining Valve Non-Return Valve Flap Valve Right-Hand (Single/Double) Washout (Single/Double) Bulk Meter Water Hatch Box Pressure Tapping Inverted Flow Meter Point 	<ul style="list-style-type: none"> Water Chemical Injection Point Manhole Water Point Quality Sample Point Change In Characteristics Marker Post Gate Junction Roach Boundary Box Strip Sign Cross Piece Stopper Lining Post Reversal Meter 	<ul style="list-style-type: none"> Housing, Building Housing, Kiosk Housing, Other Pipe Support Structure Open Pipe Discharge End Cap ESB Area Access Pipe Pre-1917 Projection 	<p>MATERIALS</p> <ul style="list-style-type: none"> 100mm 150mm 200mm 250mm 300mm 350mm 400mm 450mm 500mm 600mm 750mm 900mm 1050mm 1200mm 1350mm 1500mm 1650mm 1800mm 2100mm 2400mm 2700mm 3000mm 3300mm 3600mm 3900mm 4200mm 4500mm 4800mm 5100mm 5400mm 5700mm 6000mm 6300mm 6600mm 6900mm 7200mm 7500mm 7800mm 8100mm 8400mm 8700mm 9000mm 9300mm 9600mm 9900mm 10200mm 10500mm 10800mm 11100mm 11400mm 11700mm 12000mm 12300mm 12600mm 12900mm 13200mm 13500mm 13800mm 14100mm 14400mm 14700mm 15000mm 15300mm 15600mm 15900mm 16200mm 16500mm 16800mm 17100mm 17400mm 17700mm 18000mm 18300mm 18600mm 18900mm 19200mm 19500mm 19800mm 20100mm 20400mm 20700mm 21000mm 21300mm 21600mm 21900mm 22200mm 22500mm 22800mm 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Distribution Main	Pumping Facility	Water Isolation Valve (Closed)	Water Chemical Injection Point
Type Main (Geography)	Booster Facility	Water Isolation Valve (Open)	Meter Water Point
Strategic Main	Potable Water Storage	Water Isolation Valve (Partially Open)	Quality Sample Point
Fire Supply Main	Water Tower	Water Air Valve	Change in Characteristics
Fire Main	Valve Room	Pressure Reducing Valve	Marker Post
Non-Domestic Customer Service Pipe	Valve	Pressure Sustaining Valve	Gate Junction
Domestic Customer Service Pipe	Valve	Non-Return Valve	Anode
Abandoned Main	Water Treatment Work Chamber	Float Valve	Boundary Box
Diverted Main	Water Treatment Work Chamber	Hydrant (Single/Double)	Stop Tap
Aqueduct	Water Treatment Work Chamber	Wastout (Single/Double)	Cross Piece
Duct	Water Treatment Work Chamber	Bulk Meter	Slower
Cable, Earthing	Water Treatment Work Chamber	Water Hatch Box	Lining Post
Cable, Optical Fibre/Instrumentation	Water Treatment Work Chamber	Pressure Tapping	Reverse Meter
Cable, Low Voltage	Water Treatment Work Chamber	Insertion Flow Meter Point	
Cable, High Voltage	Water Treatment Work Chamber		
Cable, Other	Water Treatment Work Chamber		

Housing, Building	MATERIALS	LINING
Housing, Kiosk	100mm PVC	100mm PVC
Housing, Other	150mm PVC	150mm PVC
Pipe Support Structure	200mm PVC	200mm PVC
Open Pipe	300mm PVC	300mm PVC
Discharge	400mm PVC	400mm PVC
End Cap	500mm PVC	500mm PVC
Riser Arise	600mm PVC	600mm PVC
Access Pipe	700mm PVC	700mm PVC
Pre-1937 Projection	800mm PVC	800mm PVC



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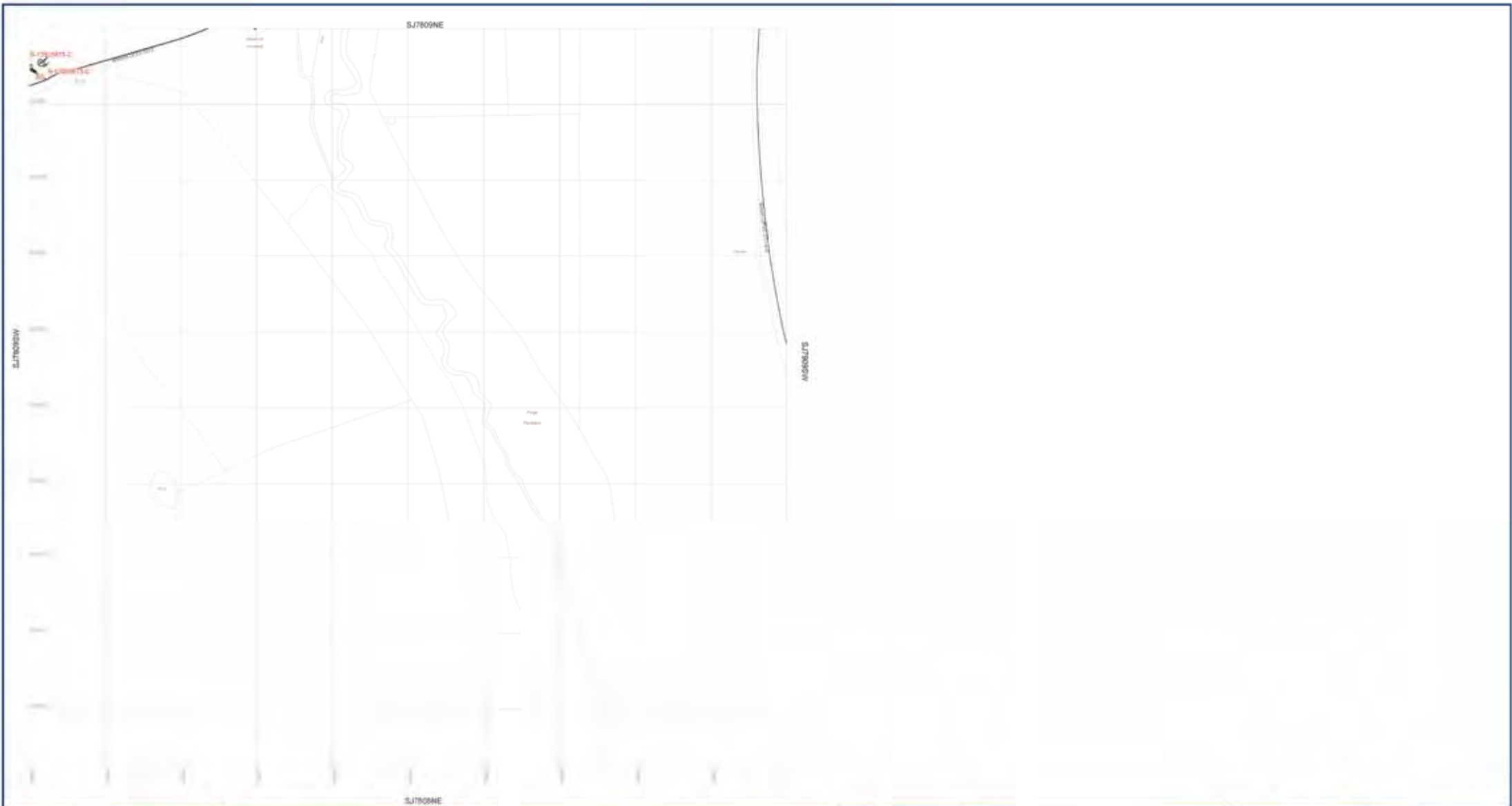
WATER MAINS RECORD (TILE)

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S17807NW

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Distribution Main	Pumping Facility	Water Isolation Valve (Closed)	Water Chemical Injection Point	Housing, Building	MATERIALS	LINING
Type Main (sanitary/wholly)	Booster Facility	Water Isolation Valve (Open)	Motor Water Point	Housing, Kiosk		
Strategic Main	Potable Water Storage	Water Isolation Valve (Partially Open)	Quality Sample Point	Housing, Other	Cast Iron	Cast Iron
Fire Supply Main	Water Tower	Water Air Valve	Change in Characteristics	Pipe Support Structure	Ductile Iron	Ductile Iron
Fire Main	Valve Room	Pressure Reducing Valve	Meter Point	Open Pipe	Steel	Steel
Non-Domestic Customer Service Pipe	Water Treatment Work / Chamber	Pressure Sustaining Valve	Gate Junction	Discharge	Concrete	Concrete
Domestic Customer Service Pipe	Drive-Off Tower	Non-Return Valve	Knot	End Cap	PVC	PVC
Abandoned Main	Water Facility Connection	Float Valve	Boundary Box	Rubber Pipe	HDPE	HDPE
Diverted Main		Right-Hand (Single/Double)	Stop Sign	2000 Arks	Glass	Glass
Aqueduct		Without (Single/Double)	Cross Piece	Rubber Pipe	Fibreglass	Fibreglass
Duct		Bulk Meter	Stopper	Pre-1937 Projectiles	Fibreglass	Fibreglass
Cable, Earthing		Water Hatch Box	Lining Post		Fibreglass	Fibreglass
Cable, Optical Fibre/Transmission		Pressure Tapping	Reverse Meter		Fibreglass	Fibreglass
Cable, Low Voltage		Insertion Flow Meter Point			Fibreglass	Fibreglass
Cable, High Voltage					Fibreglass	Fibreglass
Cable, Other					Fibreglass	Fibreglass



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WATER MAINS RECORD (TILE)

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Date of Issue: 07.08.19 © S TWS reference

SJ7809E

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SEVERN TRENT WATER

GENERAL CONDITIONS AND PRECAUTIONS TO BE TAKEN WHEN CARRYING OUT WORK ADJACENT TO SEVERN TRENT WATER'S APPARATUS

Please ensure that a copy of these conditions is passed to your representative and/or your Contractor on site. If any damage is caused to STW apparatus, the person, Contractor or Subcontractor responsible must inform STW immediately on:

0800 783 4444 (24 hours)

These general conditions and precautions apply to the public sewerage, water distribution and telemetry systems. The conditions include sewers which are the subject of an Agreement under Section 104 of the Water Industry Act 1991 and mains installed in accordance with the Agreement for the self construction of water mains. Please be aware that due to The Private Sewers Transfer Regulations June 2011, the number of public sewers has increased, but many of these are not shown on the public sewer record. However, some idea of their positions may be obtained from the position of inspection covers and their existence must be anticipated.

On request, STW will issue a copy of the plan showing the approximate locations of STW apparatus although in certain instances a charge will be made. The position of private drains, private sewers and water service pipes to properties are not normally shown but their presence must be anticipated. This plan is furnished as a general guide only and no warranty as to its accuracy is given or implied. The plan must not be relied upon in the event of excavations or other works in the vicinity of STW apparatus. No person or Company shall be relieved from liability for damage caused by reason of the actual position and/or depths of STW apparatus being different from those shown on the plan.

In order to achieve safe working conditions adjacent to any apparatus the following should be observed:

1. All STW apparatus should be located by hand digging prior to the use of mechanical excavators.
2. All information set out in any plans received from us, or given by our staff at the site of the works, about the position and depth of the mains, is approximate. Every possible precaution should be taken to avoid damage to our apparatus. You or your contractor must ensure the safety of our equipment and will be responsible for the cost of repairing any damage caused.
3. Water mains are normally laid at a depth of 900mm. No records are kept of customer service pipes which are normally laid at a depth of 750mm; but some idea of their positions may be obtained from the position of stop tap covers and their existence must be anticipated.
4. During construction work, where heavy plant will cross the line of STW apparatus, specific crossing points must be agreed with the Company and suitably reinforced where required. These crossing points should be clearly marked and crossing of the line of STW apparatus at other locations must be prevented.
5. Where it is proposed to carry out piling or boring within 20 metres of any STW apparatus, STW should be consulted to enable any affected STW apparatus to be surveyed prior to the works commencing.
6. Where excavation of trenches adjacent to any STW apparatus affects its support, the STW apparatus must be supported to the satisfaction of STW. Water mains and some sewers are pressurised and can fail if excavation removes support to thrust blocks to bends and other fittings.
7. Where a trench is excavated crossing or parallel to the line of any STW apparatus, the backfill should be adequately compacted to prevent any settlement which could subsequently cause

damage to the STW apparatus. In special cases, it may be necessary to provide permanent support to STW apparatus which has been exposed over a length of the excavation before backfilling and reinstatement is carried out. There should be no concrete backfill in contact with the STW apparatus.

8. No apparatus should be laid along the line of STW apparatus irrespective of clearance. Above ground apparatus must not be located within a minimum of 3 metres either side of the centre line of STW apparatus for smaller sized pipes and 6 metres either side for larger sized pipes without prior approval. No manhole or chamber shall be built over or around any STW apparatus.
9. A minimum radial clearance of 300 millimetres should be allowed between any plant being installed and existing STW apparatus. - We reserve the right to increase this distance where strategic assets are affected.
10. Where any STW apparatus coated with a special wrapping is damaged, even to a minor extent, STW must be notified and the trench left open until the damage has been inspected and the necessary repairs have been carried out. In the case of any material damage to any STW apparatus causing leakage, weakening of the mechanical strength of the pipe or corrosion-protection damage, the necessary remedial work will be recharged.
11. It may be necessary to adjust the finished level of any surface boxes which may fall within your proposed construction. Please ensure that these are not damaged, buried or otherwise rendered inaccessible as a result of the works and that all stop taps, valves, hydrants, etc. remain accessible and operable. Minor reduction in existing levels may result in conflict with apparatus such as valve spindles or tops of hydrants housed under the surface boxes. Checks should be made during site investigations to ascertain the level of such apparatus in order to determine any necessary alterations in advance of the works.
12. With regard to any proposed resurfacing works, you are required to contact STW on the number given above to arrange a site inspection to establish the condition of any STW apparatus in the nature of surface boxes or manhole covers and frames affected by the works. STW will then advise on any measures to be taken, in the event of this a proportionate charge will be made.
13. You are advised that Severn Trent Water Limited will not agree to either the erection of posts, directly over or within 1.0 metre of valves and hydrants,
14. No explosives are to be used in the vicinity of any STW apparatus without prior consultation with STW.

TREE PLANTING RESTRICTIONS

There are many problems with the location of trees adjacent to sewers, water mains and other STW apparatus and these can lead to the loss of trees and hence amenity to the area which many people may have become used to. It is best if the problem is not created in the first place. Set out below are the recommendations for tree planting in close proximity to public sewers, water mains and other STW apparatus.

15. Please ensure that, in relation to STW apparatus, the mature root systems and canopies of any tree planted do not and will not encroach within the recommended distances specified in the notes below.
16. Both Poplar and Willow trees have extensive root systems and should not be planted within 12 metres of a sewer, water main or other STW apparatus.
17. The following trees and those of similar size, be they deciduous or evergreen, should not be planted within 6 metres of a sewer, water main or other STW apparatus. E.g. Ash, Beech, Birch, most Conifers, Elm, Horse Chestnut, Lime, Oak, Sycamore, Apple and Pear.

18. STW personnel require a clear path to conduct surveys etc. No shrubs or bushes should be planted within 2 metre of the centre line of a sewer, water main or other STW apparatus.
19. In certain circumstances, both the Company and landowners may wish to plant shrubs/bushes in close proximity to a sewer, water main or other STW apparatus for screening purposes. The following are shallow rooting and are suitable for this purpose: Blackthorn, Broom, Cotoneaster, Elder, Hazel, Laurel, Privet, Quickthorn, Snowberry, and most ornamental flowering shrubs.

ELECTRICITY

Our Ref: 16078203 Your Ref: SP19424-1

Wednesday, 24 July 2019

Stephen Sawyer
Technics House Merrow Business Park
Guildford
Surrey
GU4 7WA

Western Power Distribution,
Mapping Centre
Toll End Road
Tipton
West Midlands
United Kingdom
DY4 0HH
www.westernpower.co.uk

Dear Stephen Sawyer

Thank you for your enquiry dated Wednesday, 24 July 2019

I now enclose a copy of our plan showing existing Western Power Distribution (WPD) Electricity / WPD Surf Telecom apparatus in the vicinity of your proposed works. This information is given as a general guide only and its accuracy cannot be guaranteed. Please note that all WPD equipment on site should be assumed to be LIVE until WPD prove otherwise and provide you with confirmation to this effect in writing. Recent additions to our network, or service connections between the main cable and a building or street lamp may not be shown.

Map Response
T 0121 623 9780
WPDMapResponse
@westernpower.co.uk

LinesearchbeforeUdig
Help Desk 0845 437 7365

Damage to underground cables and contact with overhead lines can cause severe injury or may prove fatal. If you are excavating on site in the vicinity of either WPD Electrical apparatus or WPD Surf Telecom apparatus you must comply with the requirements of the following:-

Health & Safety Executive guidance HS(G)47, Avoiding Danger from underground services.

Work taking place in the vicinity of our plant is also regulated under the:-

Electricity at Work Regulations 1989, Health and Safety Act 1974, CDM Regulations 2015.

Safe working procedures should be defined and practiced

Please ensure that the use of mechanical excavators in the vicinity of our plant is kept to a minimum. WPD Surf Telecom ducts contain fibre cables, which are expensive to repair. Therefore, extreme care must be taken whilst working in the vicinity of these ducts, hand digging methods being used to determine their precise position.

If there are overhead lines crossing your site and your proposal involves building works which may infringe the clearance to our overhead system then you should call the relevant general enquiries number (see page 2 of this letter) for advice. Where overhead lines cross your site you must comply with the requirements of Health & Safety Executive guidance as laid down in GS6, Avoidance of Danger from Overhead Electric Lines.

Western Power Distribution PLC
South West - 02366894
South Wales - 02366985
East Midlands - 02366923
West Midlands - 03600574

Where diversions to WPD apparatus are needed to allow change to occur on site, the cost of these alterations may be charged to the persons responsible for the works.

If you require advice in connection with your proposals please contact the relevant general enquiries number (see page 2 of this letter)

Registered in
England and Wales

Following consultation the local Western Power Distribution team will where necessary prepare detailed proposals and provide a quotation for any necessary alterations and/or development of our equipment on the site.

Registered Office:
Avonbank
Feeder Road
Bristol
BS2 0TB

Yours sincerely
WPD Map Response Team

Contact Us

Emergency or Power Supply issues

In an emergency call 105, 24 hours a day.

Mapping Enquiries

If you have an enquiry relating to this letter or the attached map plan, please contact us using the following information:

Telephone 0121 623 9780
Email WPDMapResponse@westernpower.co.uk

General Enquiries

If you have a general enquiry, please call us on the following telephone number:

All areas 0800 096 3080

LinesearchbeforeUdig

If you have an enquiry relating to the use of the LinesearchbeforeUdig website please contact LinesearchbeforeUdig using the following information:

Telephone 0845 437 7365
Email enquiries@linesearchbeforeudig.co.uk
Website www.linesearchbeforeudig.co.uk

Steps to help keep you safe

- If you are working within 10 metres of our 33kV, 56kV, 132kV underground electricity cables or within 10 metres of an overhead electricity line you should call the relevant General Enquiries for free safety advice.

Safety Documents – please download our informative safety documents to help ensure that you, your staff and the public are kept safe whilst working in the vicinity of electricity.

<https://www.westernpower.co.uk/customers-and-community/health-safety/public-safety-advice>

- **Make sure you have up to date plans** - remember that recent additions to our network or service connections between the main cable and a building or street lamp may not be shown.
- **Look for signs of service cables** - an electricity meter box or nearby streetlamp may give you an indication that service cables are present in your area of work.
- **Non WPD Network** - electricity cables, lines and equipment owned by others may also be present in addition to WPD network. They are unlikely to be shown on our plans.
- **Use a cable locator** - trace electricity cables and mark the position of them using paint or other waterproof marking on the ground.
- **Hand dig trial holes** - to confirm the position of cables in close proximity to your area of your work and use spades and shovels rather than picks, pins or forks.
- **Have an emergency plan** - so that everyone working on site understands what to do in the event of an underground electricity cable being damaged or contact being made with an overhead electricity line.
- **If you are working within 10 metres** of an overhead electricity line then it may be necessary for you to erect warning signs and markers, or height restriction goal posts. Ensure that you comply with the requirements of Health & Safety Executive guidance laid down in GS6, Avoidance of Danger from Overhead Electric Lines.
- **If you are erecting a structure** that could allow anyone standing on it, or its access device (ladder, scaffold, MEWP), to come within 3m of any overhead electric line then **you must inform us**. This is your duty and a legal requirement under the Electricity Safety, Quality & Continuity Regulations 2002.
- **If you cannot work safely** around the underground electricity cable or overhead electricity line, then you may need to get it moved to allow your works to go ahead. Call the general enquiry numbers above for guidance.
- **It is possible that cables or pipes may be embedded in concrete** - electricity cables embedded in concrete MUST be made 'dead' by Western Power Distribution or the cable owner before the concrete is broken out. Alternatively, another safe way of working should be agreed.

Cables are sometimes covered by tiles or a marker tape - these can be concrete, polythene or earthenware and are a useful early warning of the presence of cables; you should avoid disturbing any tiles or tape to expose the cable. Not all cables have these warning indicators.

Contact Us

Mapping Enquiries: All areas: 0121 623 9760
General Enquiries: All areas: 0800 096 3080

Report damage immediately - KEEP EVERYONE AWAY FROM THE AREA
 0800 6723 105

Date Requested: 24/07/2019
 Job Reference: 16078203
 Site Location: 376271 310481
 Requested by: Mr Stephen Sawyer
 Your Scheme/Reference: 5P19424-1

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- When working within 10m of any overhead electric line you should follow the requirements of HSE Guidance Note GS6.
- For further advice on working near our electricity cables or lines, call our Contact Centre on 0800 096 3080.
- Advice should be sought from the Western Power Distribution Contact Centre for any work that is to take place in proximity to 66kV or 132kV underground cables and 66kV 132kV overhead lines - 0800 096 3080

Overhead Line	Underground Cable
PL	PL
Service	Service
LV	LV
HV (11kV)	HV (11kV)
HV (33kV)	HV (33kV)
HV (66kV)	HV (66kV)
HV (132kV)	HV (132kV)
SURF Telecoms	Fiber Cables
Link Box	Pole Mounted Transformer
Site Location	PME Earth
Line/Area	Underground Earth
	Ground Mounted Transformer

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Overview

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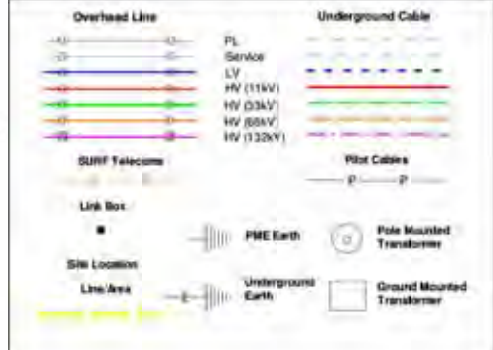
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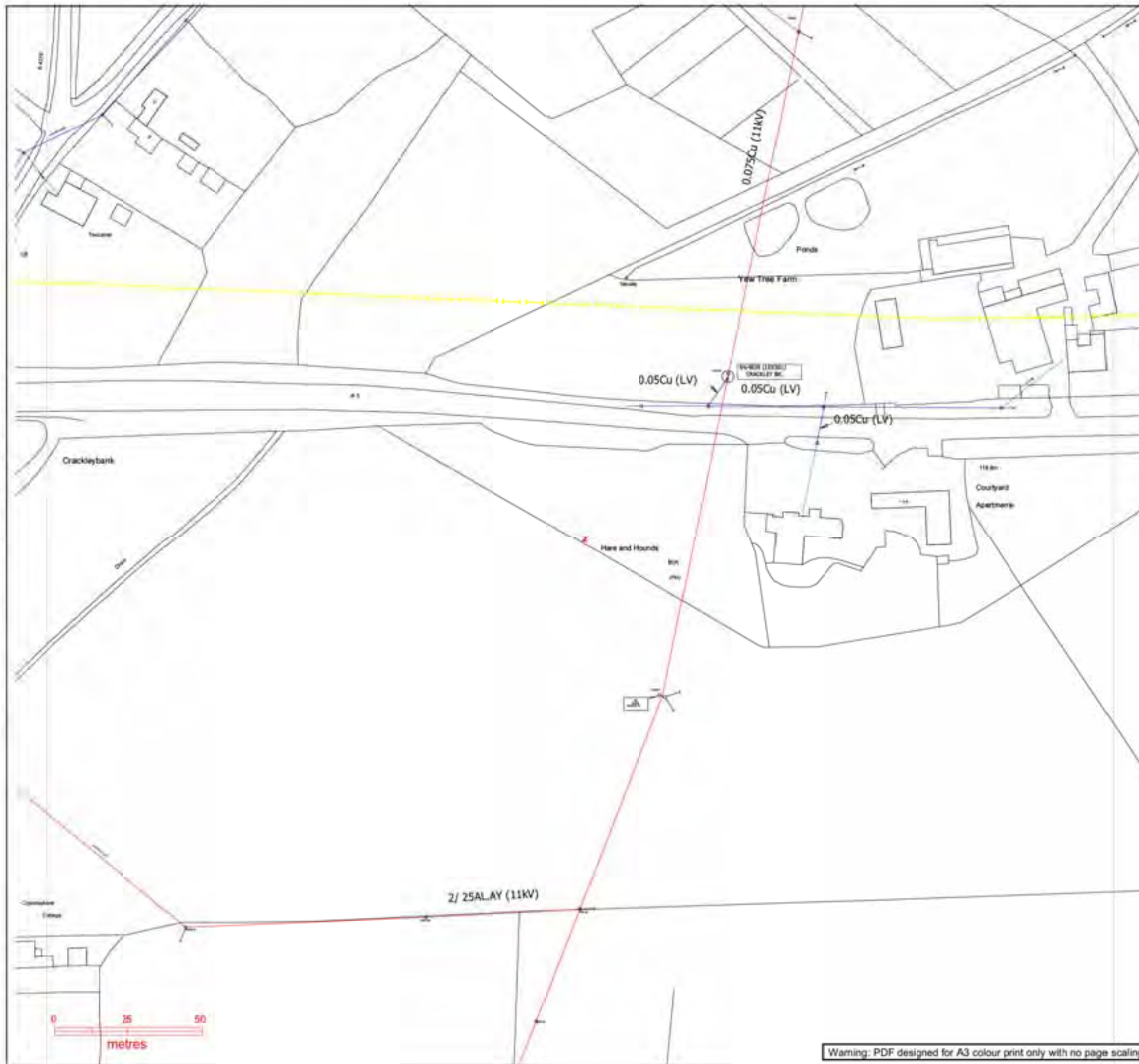
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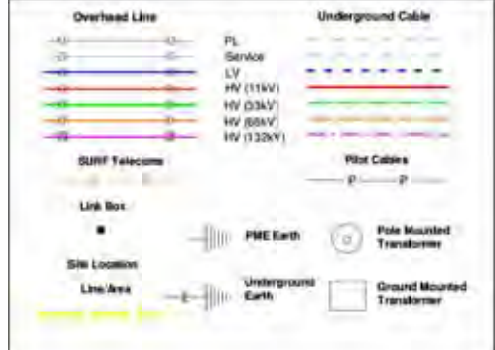
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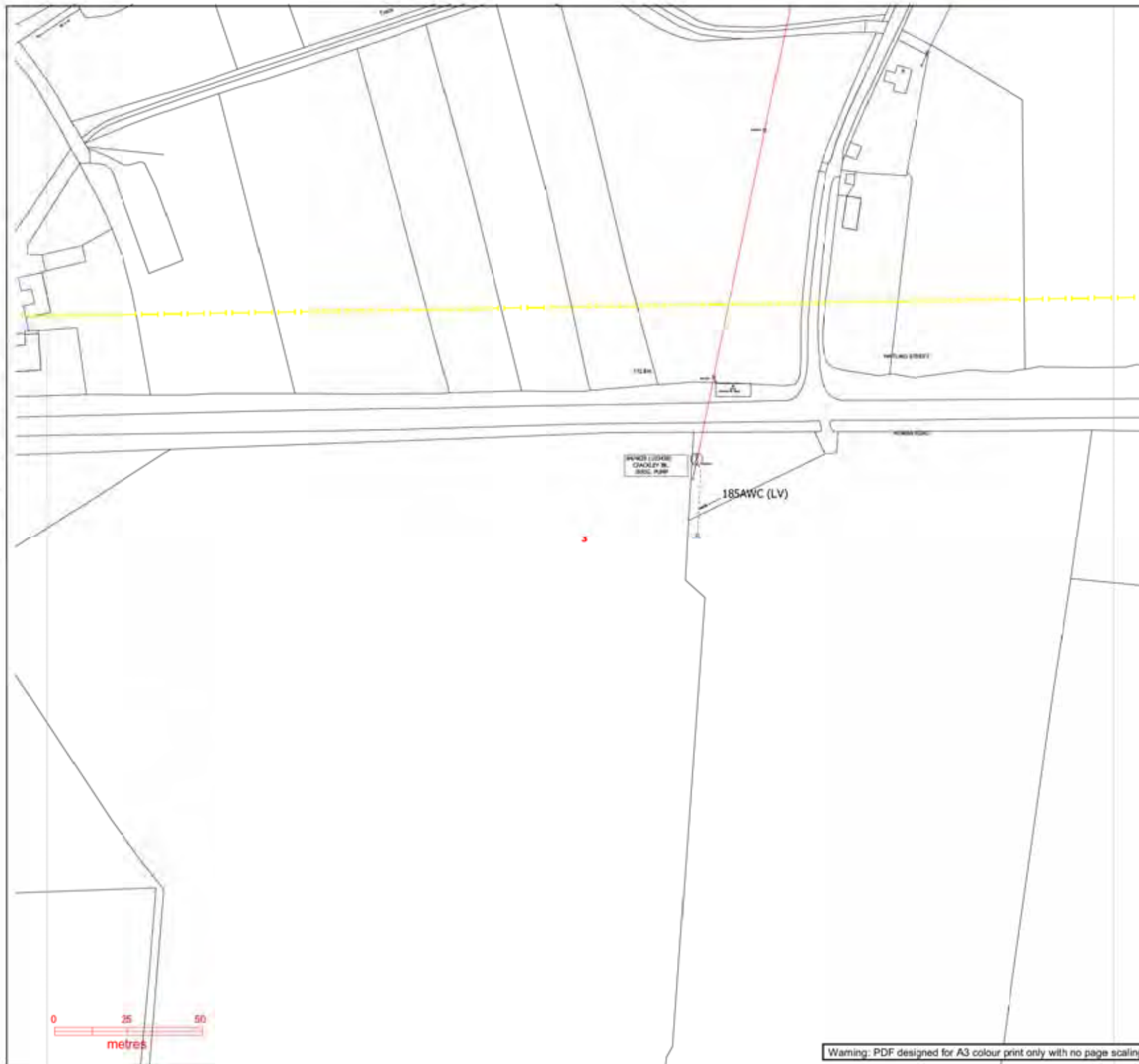
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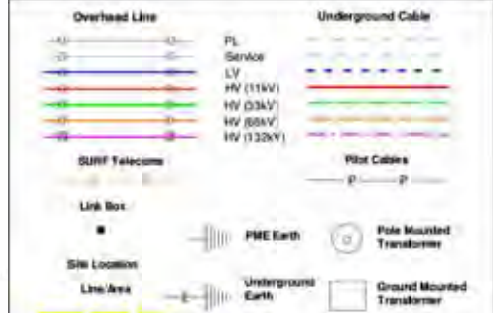
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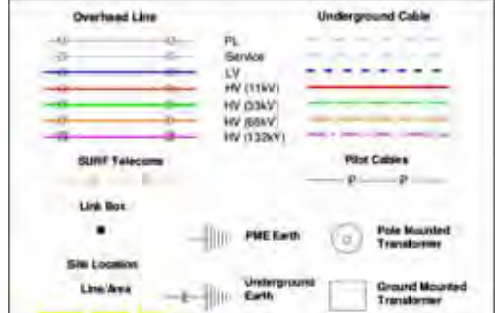
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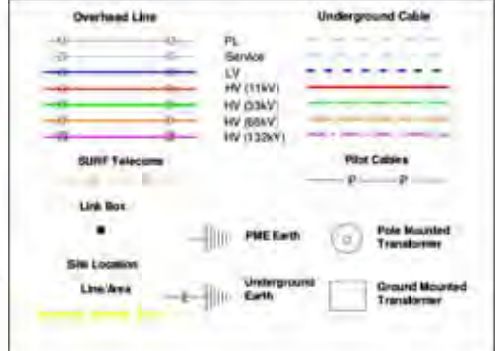
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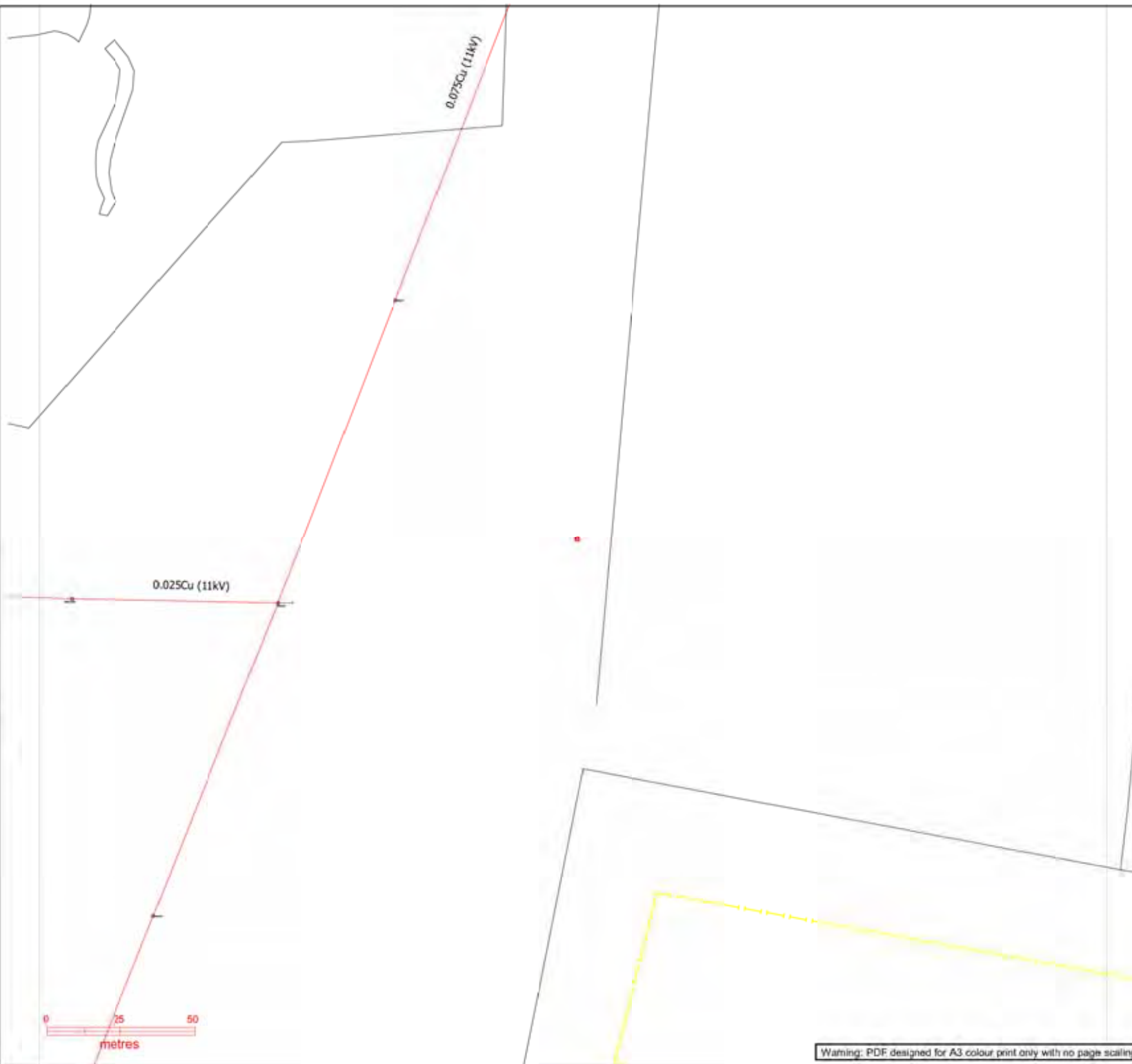
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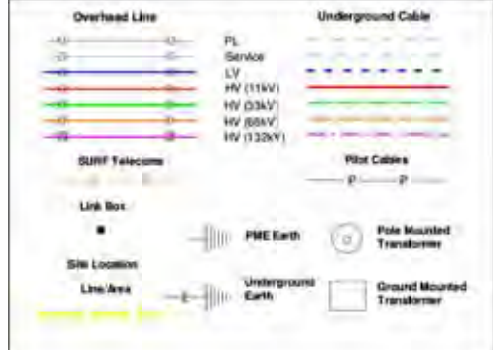
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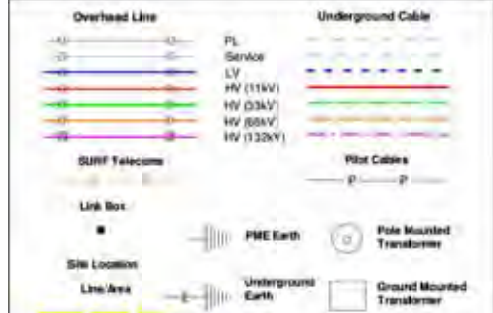
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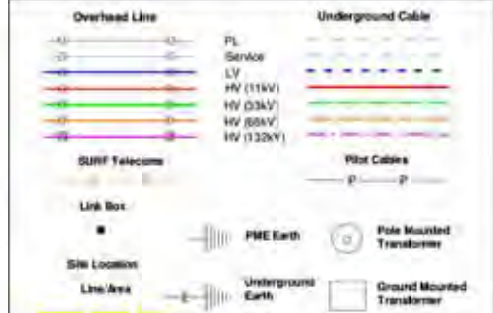
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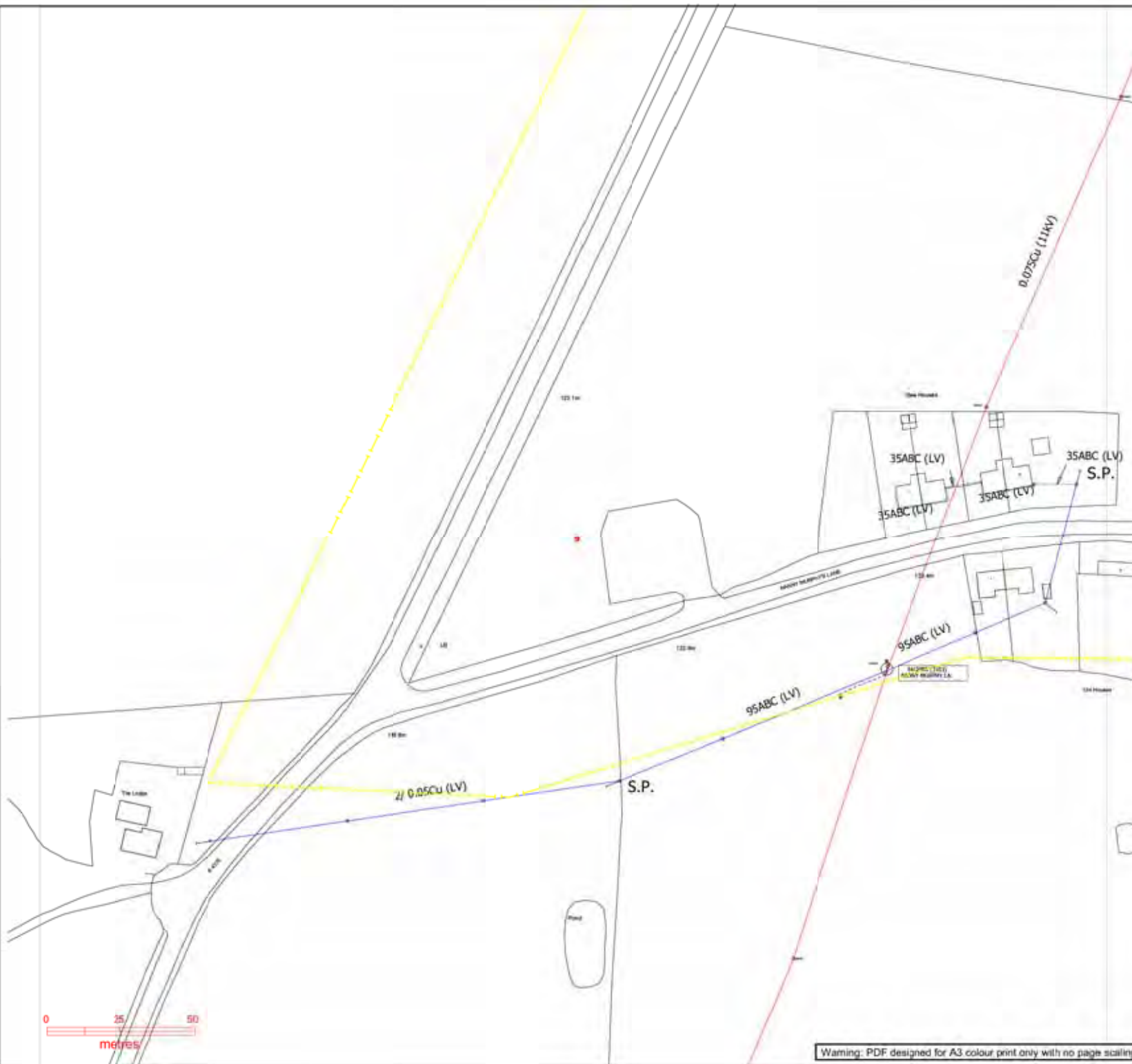
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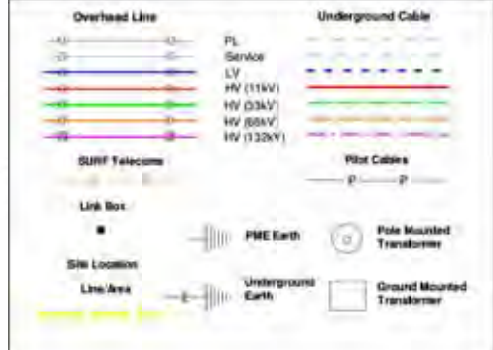
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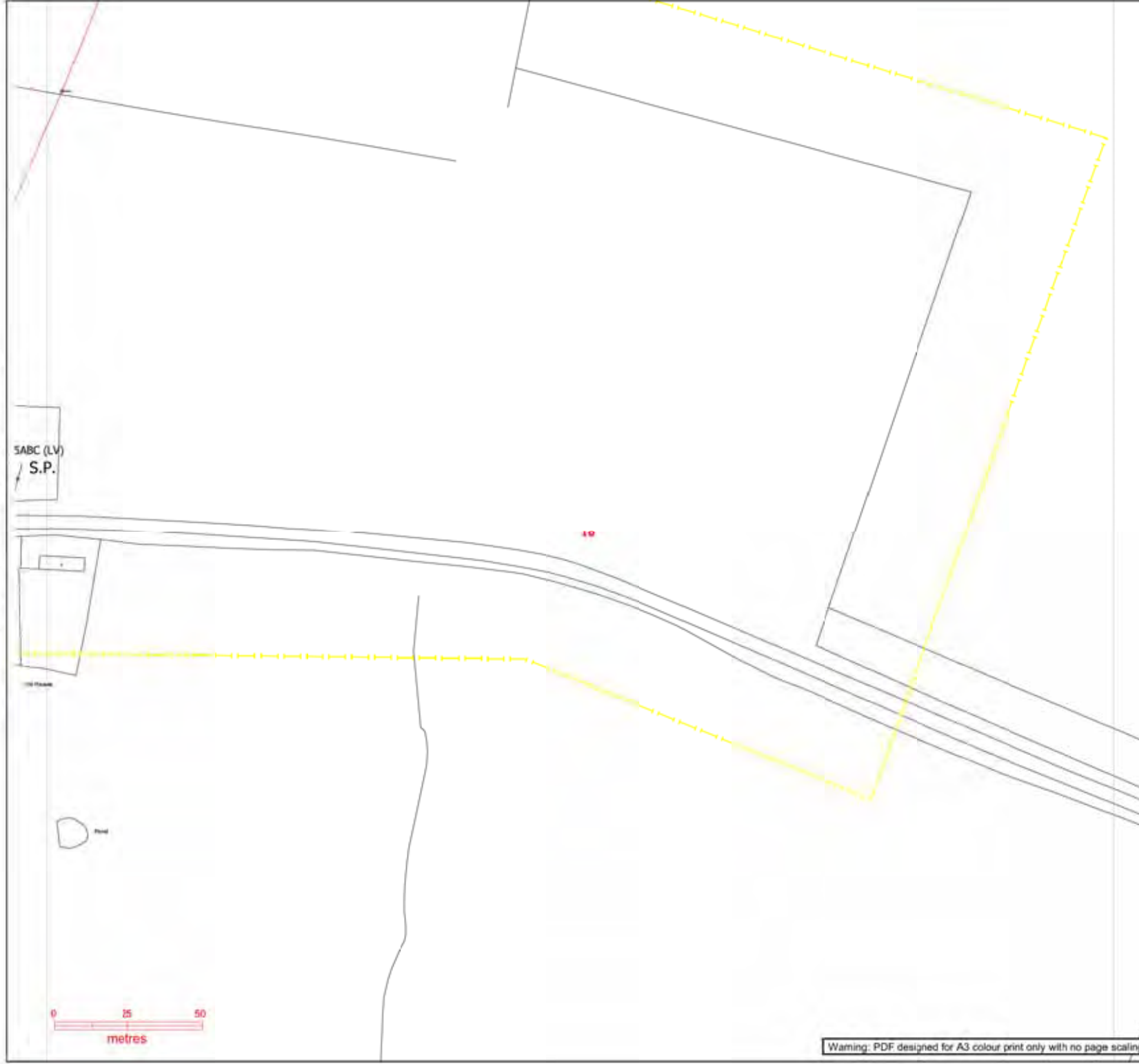
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Our Ref: 16078287 Your Ref: SP19424-2

Wednesday, 24 July 2019

Stephen Sawyer
Technics House Merrow Business Park
Guildford
Surrey
GU4 7WA

Western Power Distribution,
Mapping Centre
Toll End Road
Tipton
West Midlands
United Kingdom
DY4 0HH
www.westernpower.co.uk

Dear Stephen Sawyer

Thank you for your enquiry dated Wednesday, 24 July 2019

I now enclose a copy of our plan showing existing Western Power Distribution (WPD) Electricity / WPD Surf Telecom apparatus in the vicinity of your proposed works. This information is given as a general guide only and its accuracy cannot be guaranteed. Please note that all WPD equipment on site should be assumed to be LIVE until WPD prove otherwise and provide you with confirmation to this effect in writing. Recent additions to our network, or service connections between the main cable and a building or street lamp may not be shown.

Map Response
T 0121 623 9780
WPDMapResponse
@westernpower.co.uk

LinesearchbeforeUdig
Help Desk 0845 437 7365

Damage to underground cables and contact with overhead lines can cause severe injury or may prove fatal. If you are excavating on site in the vicinity of either WPD Electrical apparatus or WPD Surf Telecom apparatus you must comply with the requirements of the following:-

Health & Safety Executive guidance HS(G)47, Avoiding Danger from underground services.

Work taking place in the vicinity of our plant is also regulated under the:-

Electricity at Work Regulations 1989, Health and Safety Act 1974, CDM Regulations 2015.

Safe working procedures should be defined and practiced

Please ensure that the use of mechanical excavators in the vicinity of our plant is kept to a minimum. WPD Surf Telecom ducts contain fibre cables, which are expensive to repair. Therefore, extreme care must be taken whilst working in the vicinity of these ducts, hand digging methods being used to determine their precise position.

If there are overhead lines crossing your site and your proposal involves building works which may infringe the clearance to our overhead system then you should call the relevant general enquiries number (see page 2 of this letter) for advice. Where overhead lines cross your site you must comply with the requirements of Health & Safety Executive guidance as laid down in GS6, Avoidance of Danger from Overhead Electric Lines.

Western Power Distribution PLC
South West - 02366894
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Where diversions to WPD apparatus are needed to allow change to occur on site, the cost of these alterations may be charged to the persons responsible for the works.

If you require advice in connection with your proposals please contact the relevant general enquiries number (see page 2 of this letter)

Registered in
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Following consultation the local Western Power Distribution team will where necessary prepare detailed proposals and provide a quotation for any necessary alterations and/or development of our equipment on the site.

Registered Office:
Avonbank
Feeder Road
Bristol
BS2 0TB

Yours sincerely
WPD Map Response Team

Contact Us

Emergency or Power Supply issues

In an emergency call 105, 24 hours a day.

Mapping Enquiries

If you have an enquiry relating to this letter or the attached map plan, please contact us using the following information:

Telephone 0121 623 9780
Email WPDMapResponse@westernpower.co.uk

General Enquiries

If you have a general enquiry, please call us on the following telephone number:

All areas 0800 096 3080

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If you have an enquiry relating to the use of the LinesearchbeforeUdig website please contact LinesearchbeforeUdig using the following information:

Telephone 0845 437 7365
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Website www.linesearchbeforeudig.co.uk

Steps to help keep you safe

- **If you are working within 10 metres of our 33kV, 56kV, 132kV underground electricity cables or within 10 metres of an overhead electricity line you should call the relevant General Enquiries for free safety advice.**

Safety Documents – please download our informative safety documents to help ensure that you, your staff and the public are kept safe whilst working in the vicinity of electricity.

<https://www.westernpower.co.uk/customers-and-community/health-safety/public-safety-advice>

- **Make sure you have up to date plans** - remember that recent additions to our network or service connections between the main cable and a building or street lamp may not be shown.
- **Look for signs of service cables** - an electricity meter box or nearby streetlamp may give you an indication that service cables are present in your area of work.
- **Non WPD Network** - electricity cables, lines and equipment owned by others may also be present in addition to WPD network. They are unlikely to be shown on our plans.
- **Use a cable locator** - trace electricity cables and mark the position of them using paint or other waterproof marking on the ground.
- **Hand dig trial holes** - to confirm the position of cables in close proximity to your area of your work and use spades and shovels rather than picks, pins or forks.
- **Have an emergency plan** - so that everyone working on site understands what to do in the event of an underground electricity cable being damaged or contact being made with an overhead electricity line.
- **If you are working within 10 metres** of an overhead electricity line then it may be necessary for you to erect warning signs and markers, or height restriction goal posts. Ensure that you comply with the requirements of Health & Safety Executive guidance laid down in GS6, Avoidance of Danger from Overhead Electric Lines.
- **If you are erecting a structure** that could allow anyone standing on it, or its access device (ladder, scaffold, MEWP), to come within 3m of any overhead electric line then **you must inform us**. This is your duty and a legal requirement under the Electricity Safety, Quality & Continuity Regulations 2002.
- **If you cannot work safely** around the underground electricity cable or overhead electricity line, then you may need to get it moved to allow your works to go ahead. Call the general enquiry numbers above for guidance.
- **It is possible that cables or pipes may be embedded in concrete** - electricity cables embedded in concrete **MUST** be made 'dead' by Western Power Distribution or the cable owner before the concrete is broken out. Alternatively, another safe way of working should be agreed.

Cables are sometimes covered by tiles or a marker tape - these can be concrete, polythene or earthenware and are a useful early warning of the presence of cables; you should avoid disturbing any tiles or tape to expose the cable. Not all cables have these warning indicators.

Contact Us

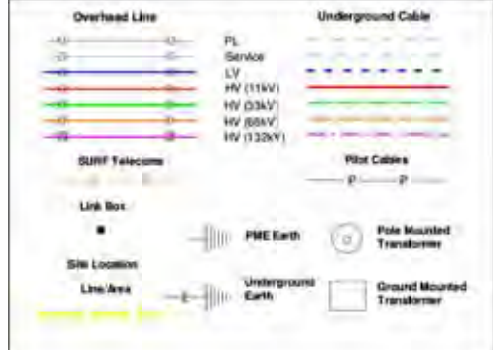
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0800 6723 105

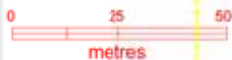
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Site Location: 377434 310438
Requested by: Mr Stephen Sawyer
Your Scheme/Reference: 5P19424-2
Exact Scales:
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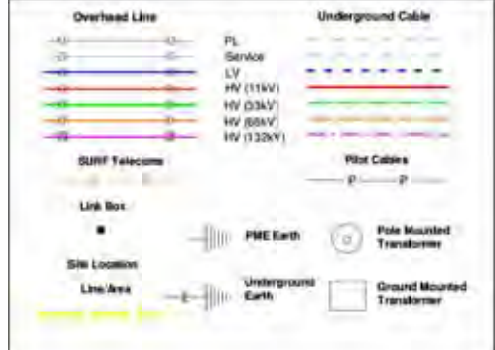
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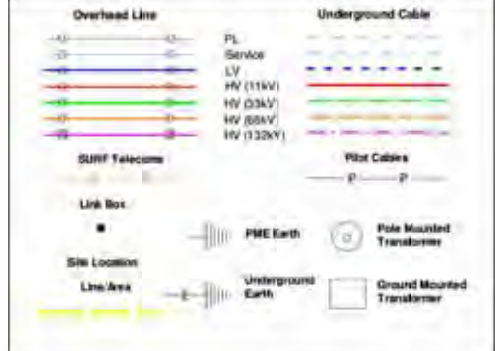
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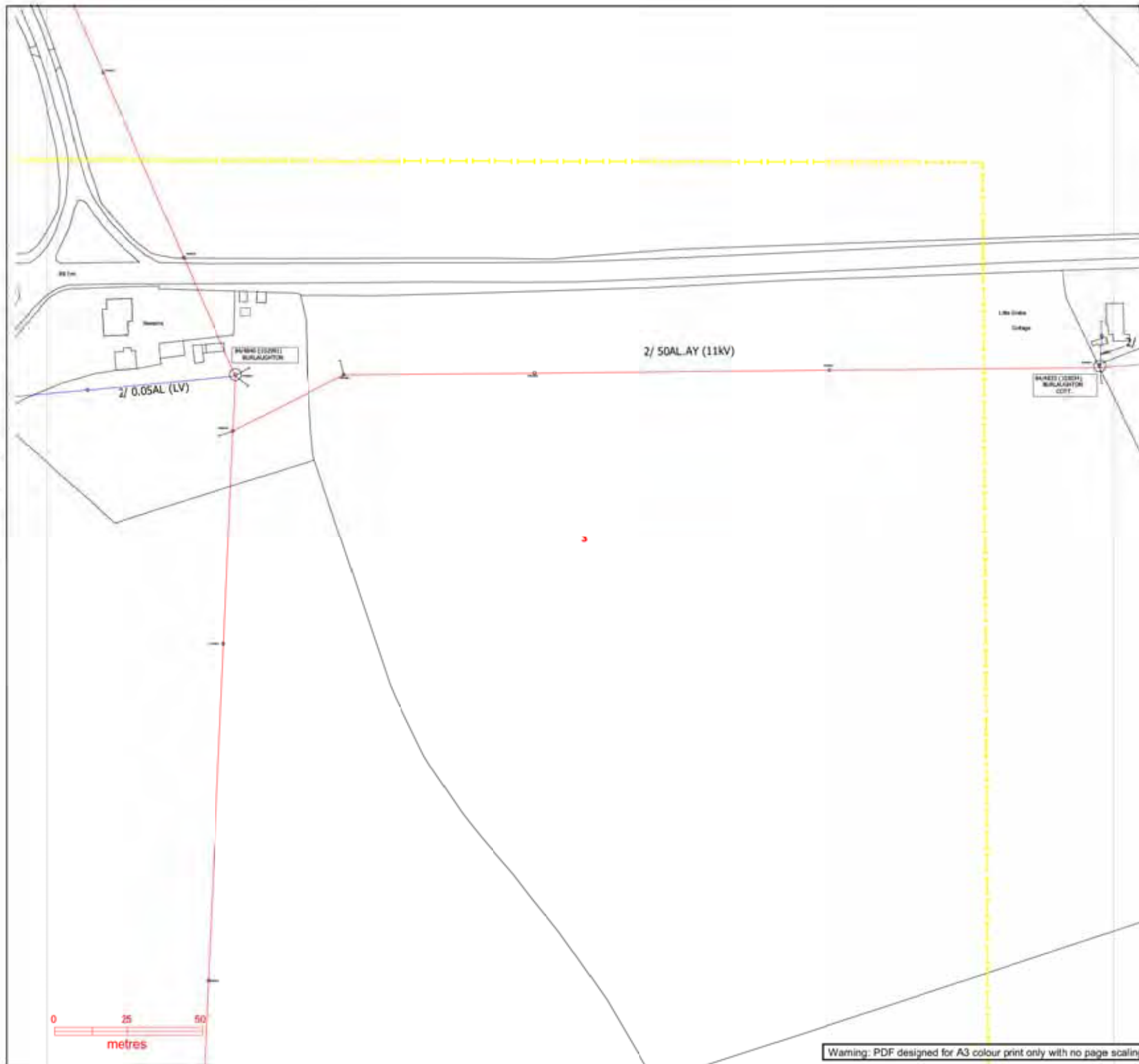
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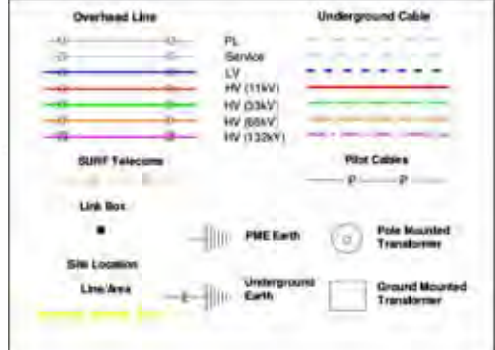
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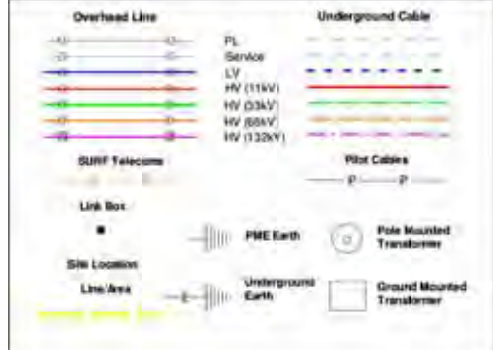
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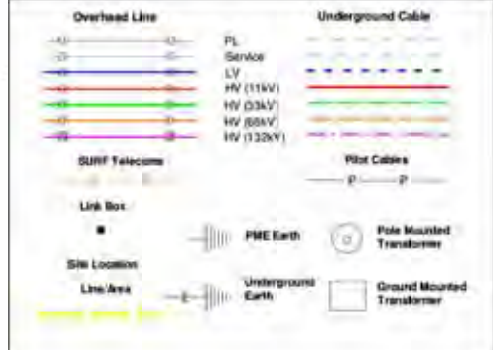
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0.05Cu (11kV)

0.05Cu (11kV)



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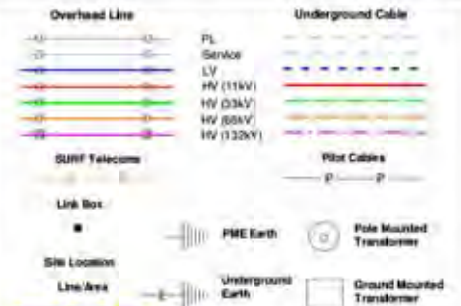
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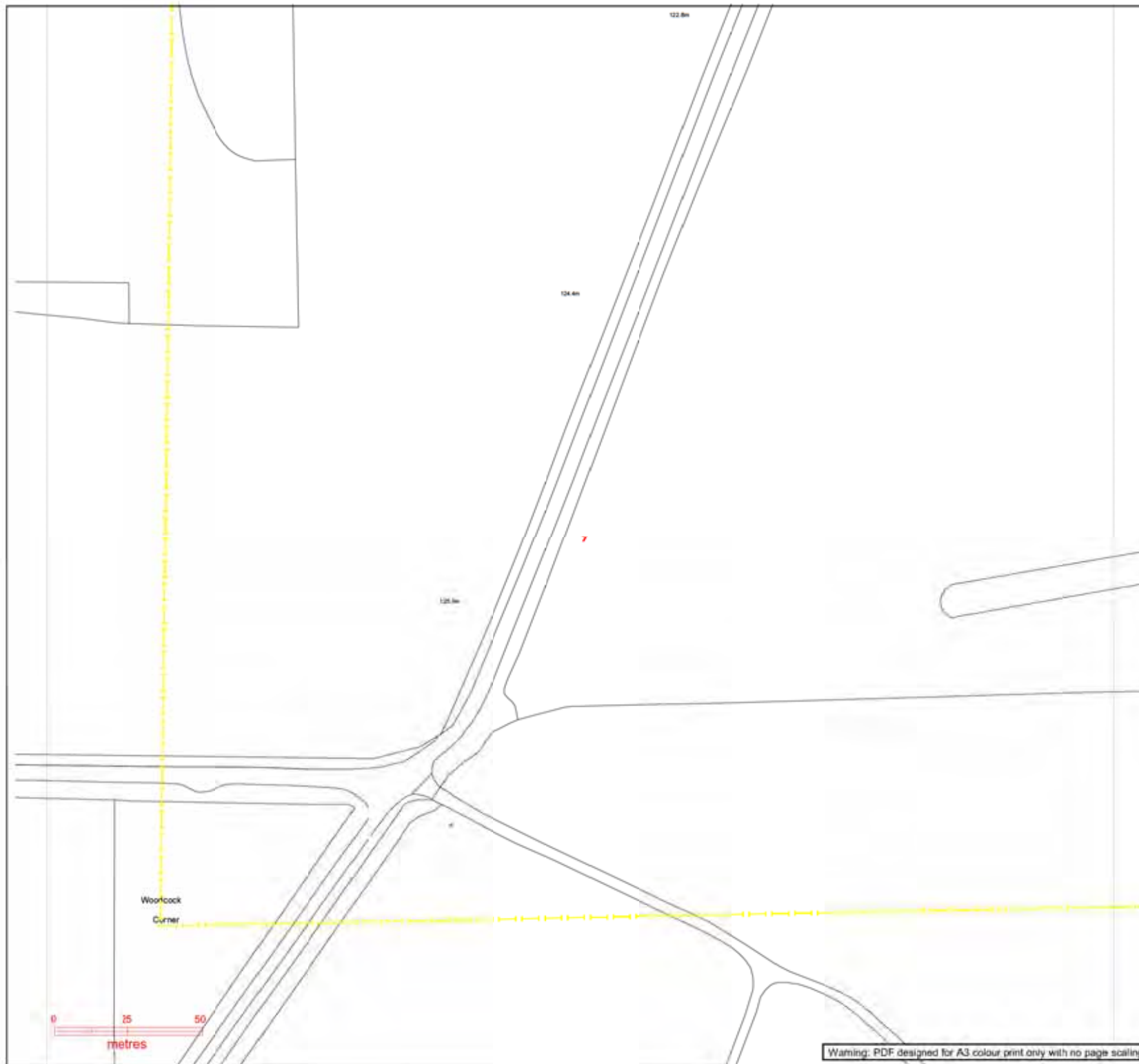
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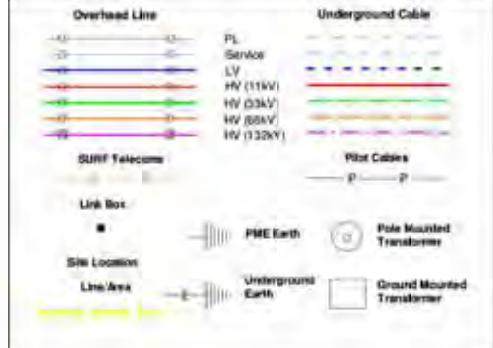
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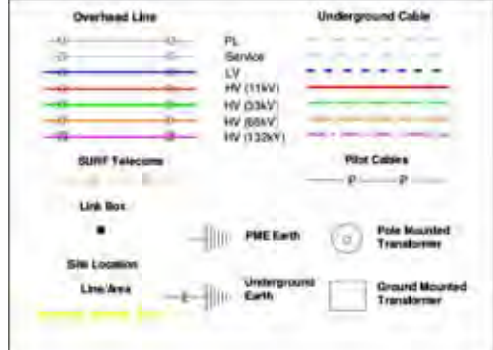
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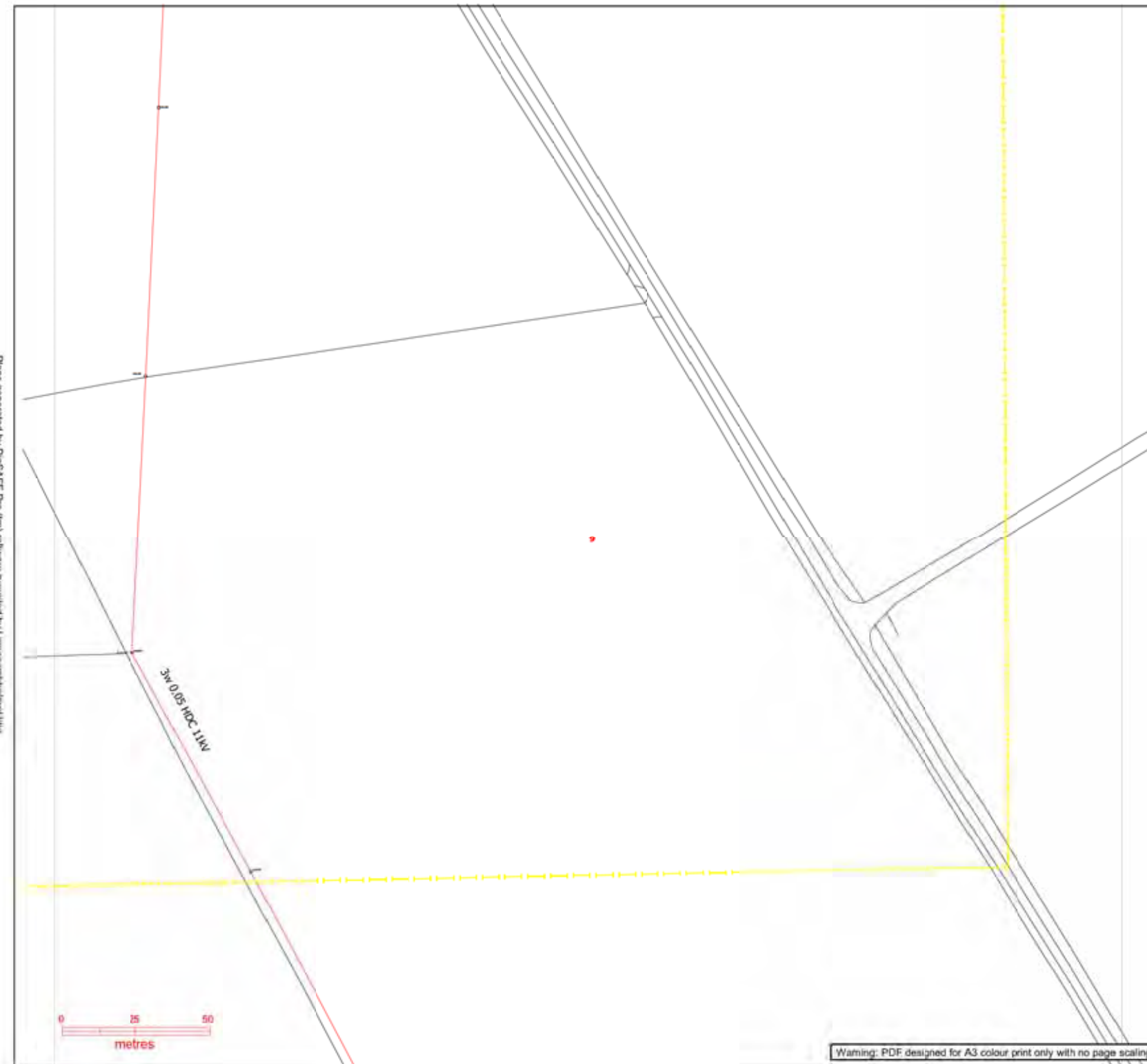
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Our Ref: 16078326 Your Ref: SP19424-3

Wednesday, 24 July 2019

Stephen Sawyer
Technics House Merrow Business Park
Guildford
Surrey
GU4 7WA

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WPD Map Response Team

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- **It is possible that cables or pipes may be embedded in concrete** - electricity cables embedded in concrete MUST be made 'dead' by Western Power Distribution or the cable owner before the concrete is broken out. Alternatively, another safe way of working should be agreed.

Cables are sometimes covered by tiles or a marker tape - these can be concrete, polythene or earthenware and are a useful early warning of the presence of cables; you should avoid disturbing any tiles or tape to expose the cable. Not all cables have these warning indicators.

Safety Documents:

<https://www.westernpower.co.uk/customers-and-community/health-safety/public-safety-advice>

Contact Us

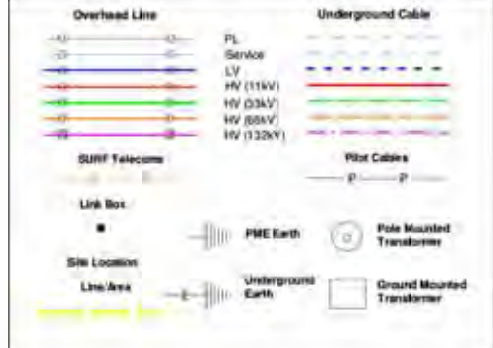
Mapping Enquiries: All areas: 0121 623 9780
General Enquiries: All areas: 0800 096 3080

Report damage immediately - KEEP EVERYONE AWAY FROM THE AREA
 0800 6723 105

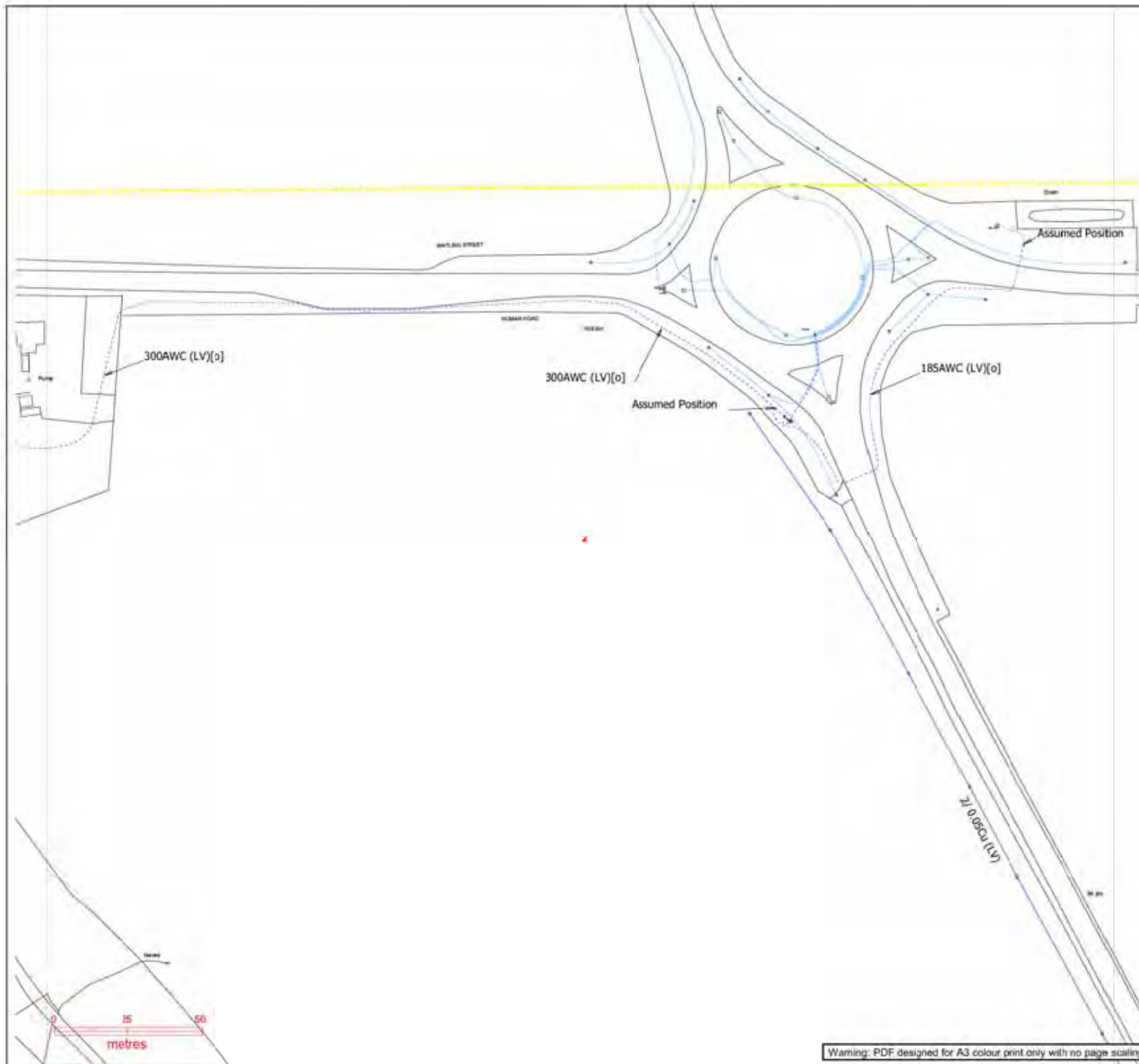
Date Requested: 24/07/2019
 Job Reference: 16078326
 Site Location: 378429 310450
 Requested by: Mr Stephen Sawyer
 Your Scheme/Reference: SP19424-3
 Exact Scales:
 1:1250 Area or Circle dig site
 1:500 Line dig site

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- For further advice on working near our electricity cables or lines, call our Contact Centre on 0800 096 3080.
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Contact Us

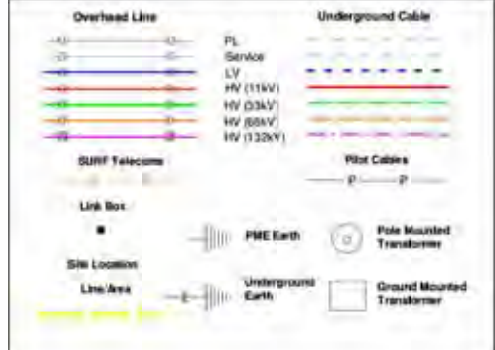
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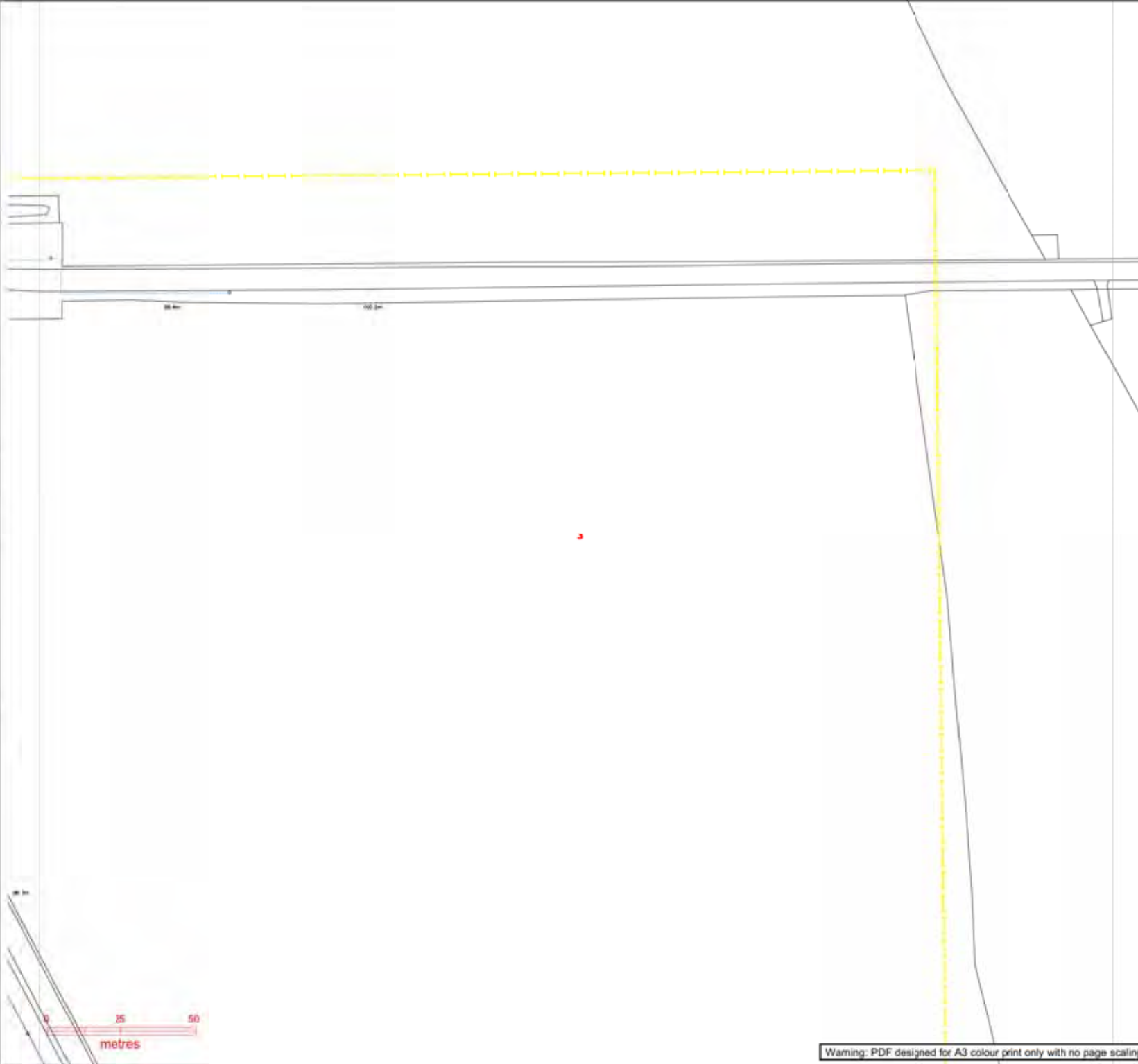
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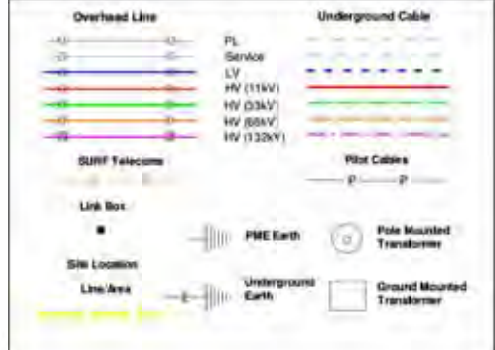
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0 25 50
metres

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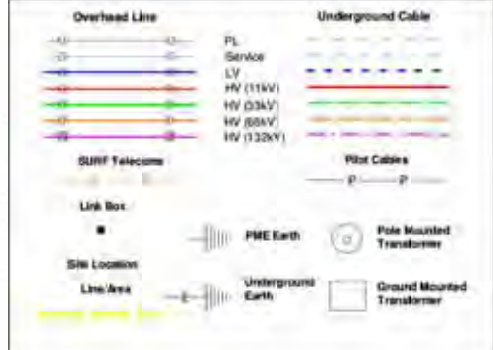
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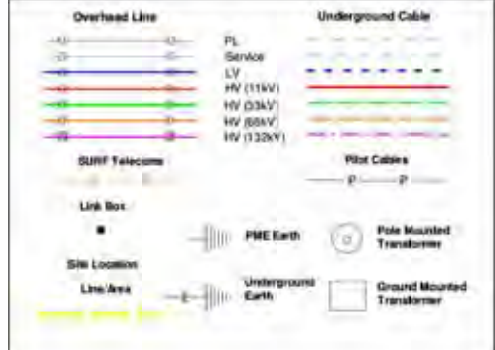
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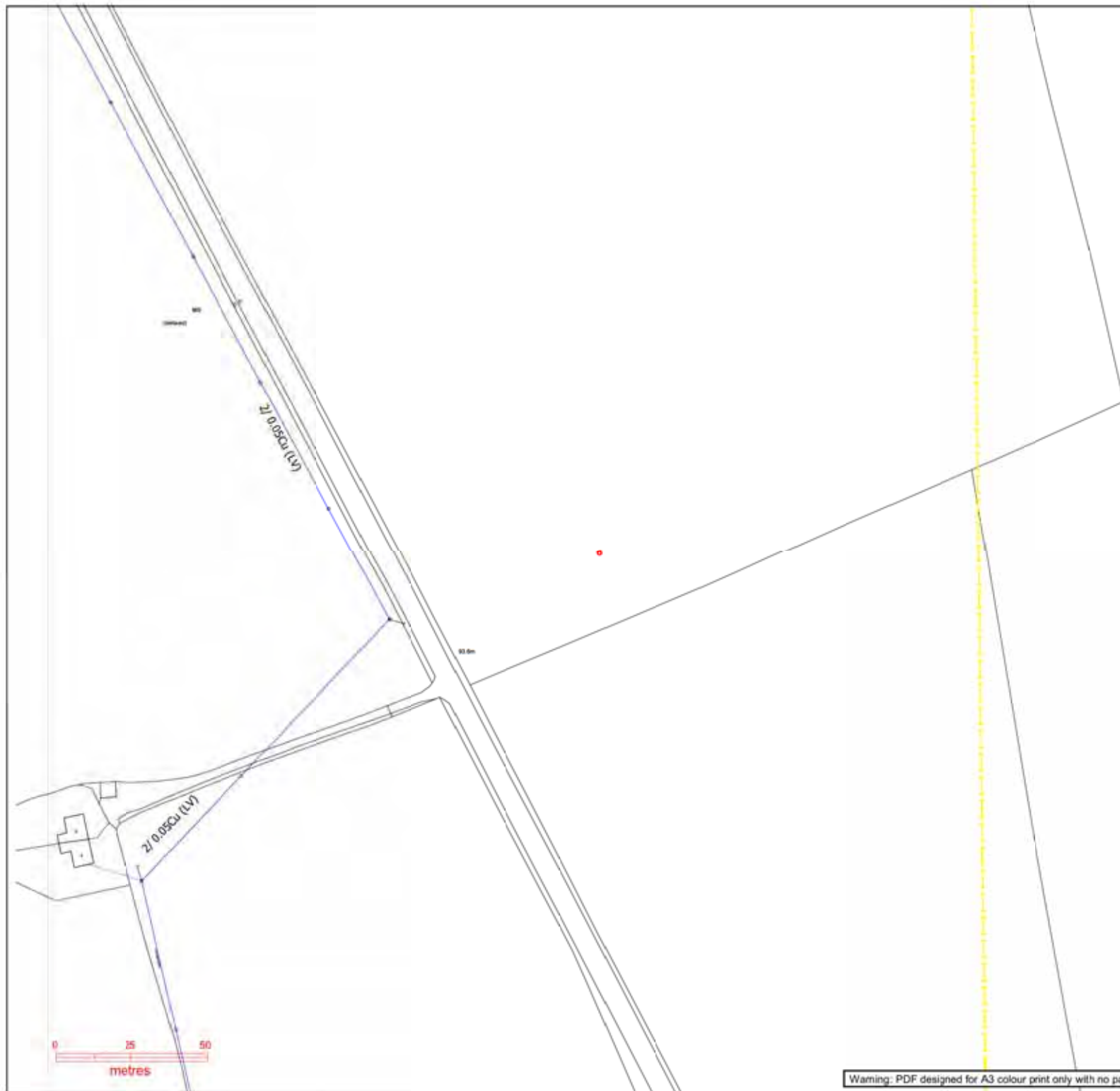
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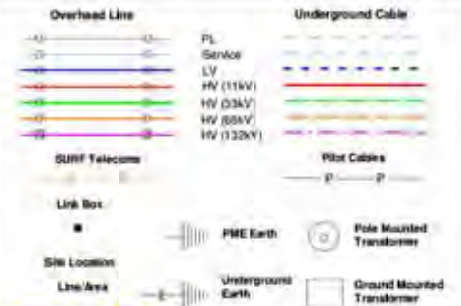
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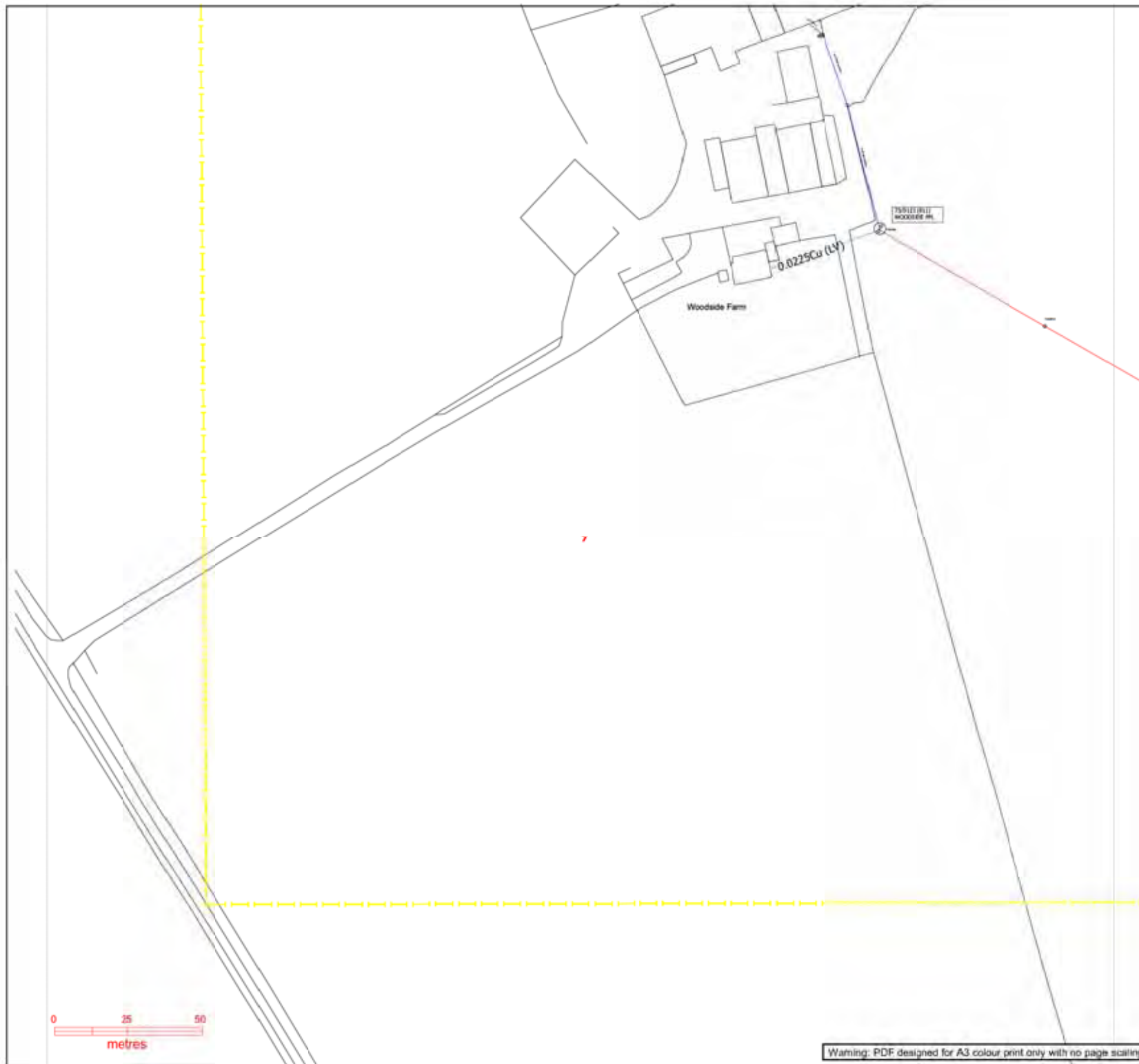
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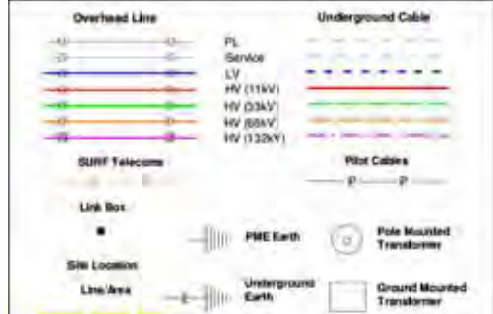
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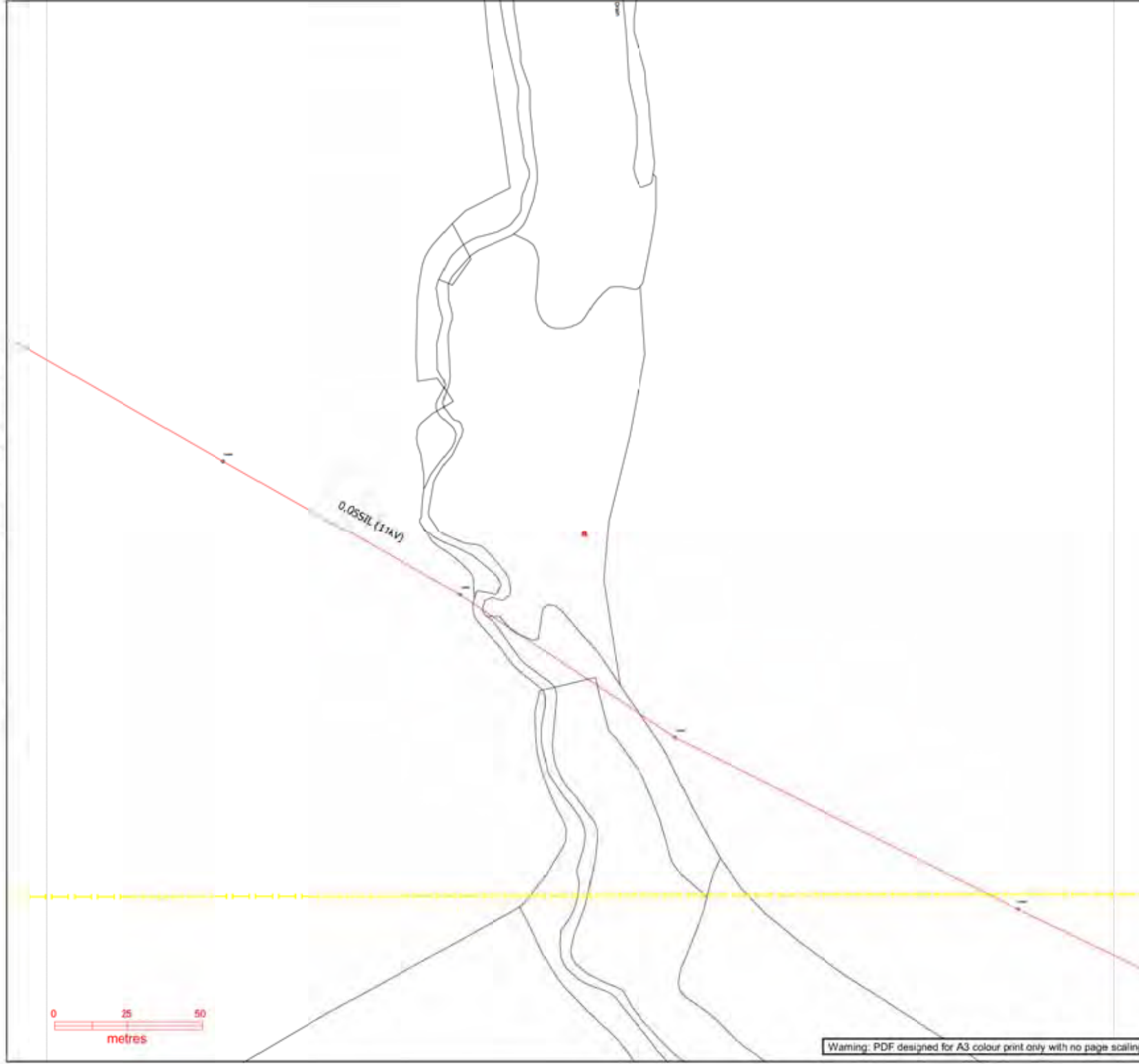
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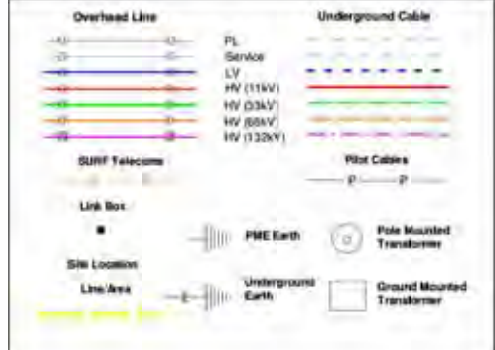
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Our Ref: 16078386 Your Ref: SP19424-4

Wednesday, 24 July 2019

Stephen Sawyer
Technics House Merrow Business Park
Guildford
Surrey
GU4 7WA

Western Power Distribution,
Mapping Centre
Toll End Road
Tipton
West Midlands
United Kingdom
DY4 0HH
www.westernpower.co.uk

Dear Stephen Sawyer

Thank you for your enquiry dated Wednesday, 24 July 2019

I now enclose a copy of our plan showing existing Western Power Distribution (WPD) Electricity / WPD Surf Telecom apparatus in the vicinity of your proposed works. This information is given as a general guide only and its accuracy cannot be guaranteed. Please note that all WPD equipment on site should be assumed to be LIVE until WPD prove otherwise and provide you with confirmation to this effect in writing. Recent additions to our network, or service connections between the main cable and a building or street lamp may not be shown.

Map Response
T 0121 623 9780
WPDMapResponse
@westernpower.co.uk

LinesearchbeforeUdig
Help Desk 0845 437 7365

Damage to underground cables and contact with overhead lines can cause severe injury or may prove fatal. If you are excavating on site in the vicinity of either WPD Electrical apparatus or WPD Surf Telecom apparatus you must comply with the requirements of the following:-

Health & Safety Executive guidance HS(G)47, Avoiding Danger from underground services.

Work taking place in the vicinity of our plant is also regulated under the:-

Electricity at Work Regulations 1989, Health and Safety Act 1974, CDM Regulations 2015.

Safe working procedures should be defined and practiced

Please ensure that the use of mechanical excavators in the vicinity of our plant is kept to a minimum. WPD Surf Telecom ducts contain fibre cables, which are expensive to repair. Therefore, extreme care must be taken whilst working in the vicinity of these ducts, hand digging methods being used to determine their precise position.

If there are overhead lines crossing your site and your proposal involves building works which may infringe the clearance to our overhead system then you should call the relevant general enquiries number (see page 2 of this letter) for advice. Where overhead lines cross your site you must comply with the requirements of Health & Safety Executive guidance as laid down in GS6, Avoidance of Danger from Overhead Electric Lines.

Western Power Distribution PLC
South West - 02366894
South Wales - 02366985
East Midlands - 02366923
West Midlands - 03600574

Where diversions to WPD apparatus are needed to allow change to occur on site, the cost of these alterations may be charged to the persons responsible for the works.

If you require advice in connection with your proposals please contact the relevant general enquiries number (see page 2 of this letter)

Registered in
England and Wales

Following consultation the local Western Power Distribution team will where necessary prepare detailed proposals and provide a quotation for any necessary alterations and/or development of our equipment on the site.

Registered Office:
Avonbank
Feeder Road
Bristol
BS2 0TB

Yours sincerely
WPD Map Response Team

Contact Us

Emergency or Power Supply issues

In an emergency call 105, 24 hours a day.

Mapping Enquiries

If you have an enquiry relating to this letter or the attached map plan, please contact us using the following information:

Telephone 0121 623 9780
Email WPDMapResponse@westernpower.co.uk

General Enquiries

If you have a general enquiry, please call us on the following telephone number:

All areas 0800 096 3080

LinesearchbeforeUdig

If you have an enquiry relating to the use of the LinesearchbeforeUdig website please contact LinesearchbeforeUdig using the following information:

Telephone 0845 437 7365
Email enquiries@linesearchbeforeudig.co.uk
Website www.linesearchbeforeudig.co.uk

Steps to help keep you safe

- If you are working within 10 metres of our 33kV, 56kV, 132kV underground electricity cables or within 10 metres of an overhead electricity line you should call the relevant General Enquiries for free safety advice.

Safety Documents – please download our informative safety documents to help ensure that you, your staff and the public are kept safe whilst working in the vicinity of electricity.

<https://www.westernpower.co.uk/customers-and-community/health-safety/public-safety-advice>

- **Make sure you have up to date plans** - remember that recent additions to our network or service connections between the main cable and a building or street lamp may not be shown.
- **Look for signs of service cables** - an electricity meter box or nearby streetlamp may give you an indication that service cables are present in your area of work.
- **Non WPD Network** - electricity cables, lines and equipment owned by others may also be present in addition to WPD network. They are unlikely to be shown on our plans.
- **Use a cable locator** - trace electricity cables and mark the position of them using paint or other waterproof marking on the ground.
- **Hand dig trial holes** - to confirm the position of cables in close proximity to your area of your work and use spades and shovels rather than picks, pins or forks.
- **Have an emergency plan** - so that everyone working on site understands what to do in the event of an underground electricity cable being damaged or contact being made with an overhead electricity line.
- **If you are working within 10 metres** of an overhead electricity line then it may be necessary for you to erect warning signs and markers, or height restriction goal posts. Ensure that you comply with the requirements of Health & Safety Executive guidance laid down in GS6, Avoidance of Danger from Overhead Electric Lines.
- **If you are erecting a structure** that could allow anyone standing on it, or its access device (ladder, scaffold, MEWP), to come within 3m of any overhead electric line then **you must inform us**. This is your duty and a legal requirement under the Electricity Safety, Quality & Continuity Regulations 2002.
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Contact Us

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Report damage immediately - KEEP EVERYONE AWAY FROM THE AREA
0800 6723 105

Date Requested: 24/07/2019
Job Reference: 16078386
Site Location: 379254 310277
Requested by: Mr Stephen Sawyer
Your Scheme/Reference: 5P19424-4

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Overhead Line	Underground Cable
PL Service	PL Service
LV	LV
HV (11kV)	HV (11kV)
HV (33kV)	HV (33kV)
HV (66kV)	HV (66kV)
HV (132kV)	HV (132kV)
SURF Telecoms	Pole Cables
Link Box	Pole Mounted Transformer
Site Location	Ground Mounted Transformer
Line/Area	PME Earth
	Underground Earth

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Overview

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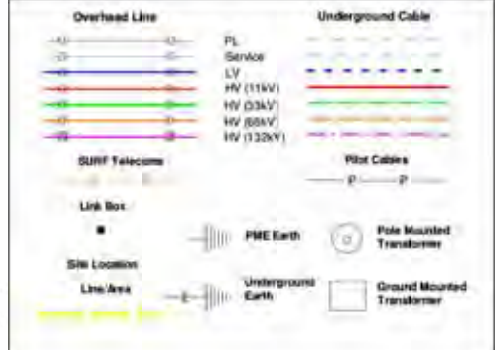
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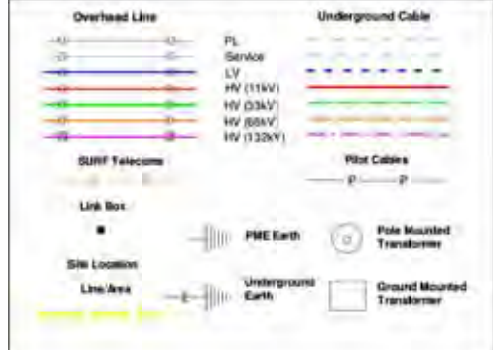
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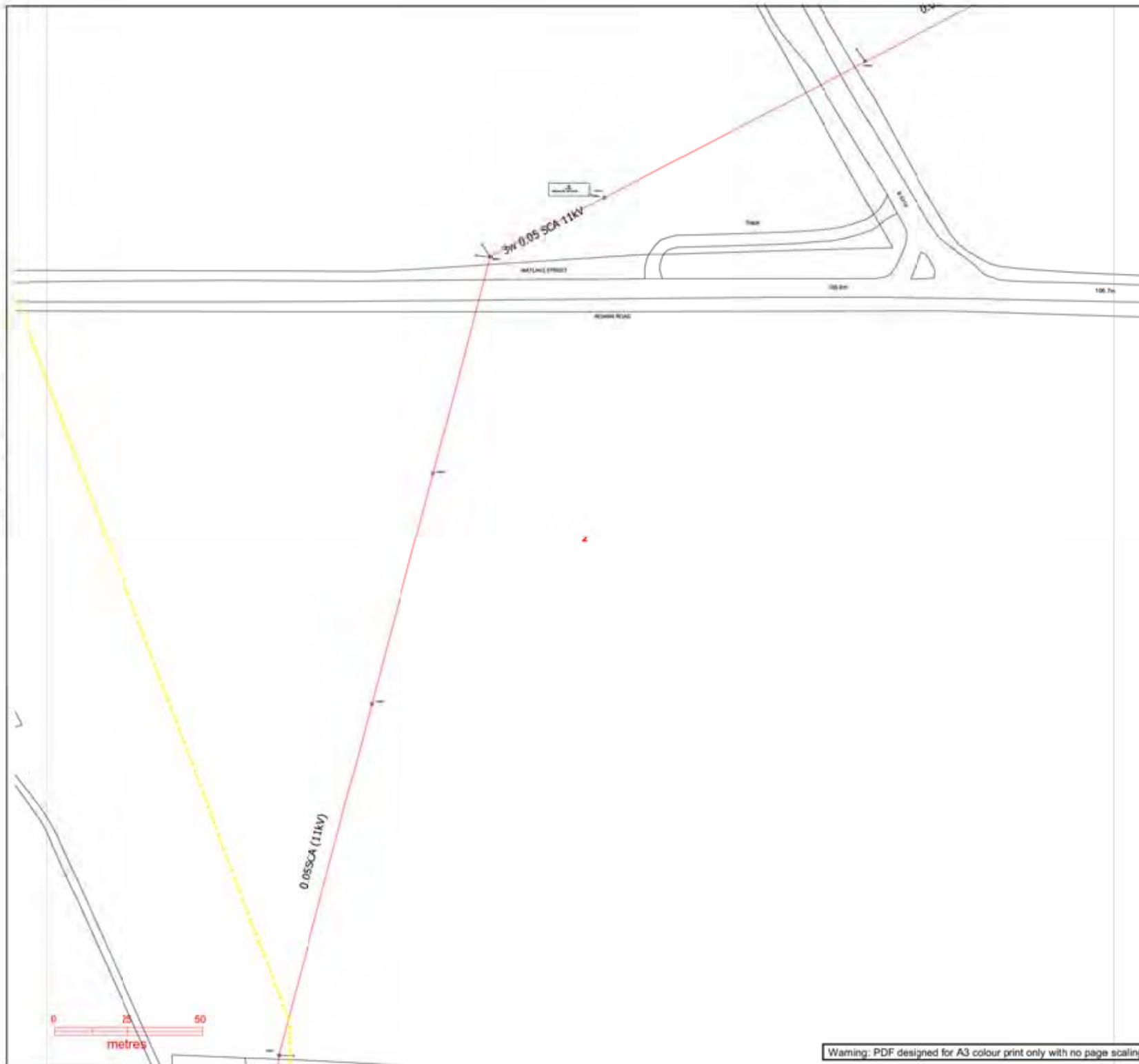
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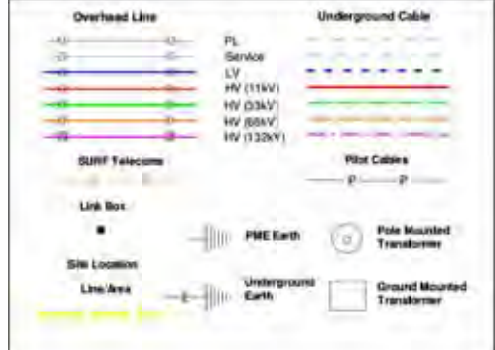
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0800 6723 105

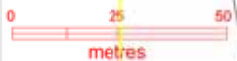
Date Requested: 24/07/2019
Job Reference: 16078386
Site Location: 379254 310277
Requested by: Mr Stephen Sawyer
Your Scheme/Reference: 5P19424-4
Exact Scales:
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1:500 Line dig site

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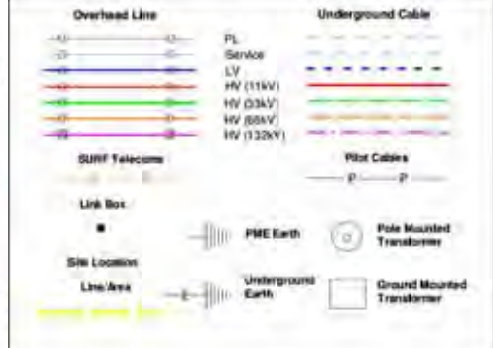
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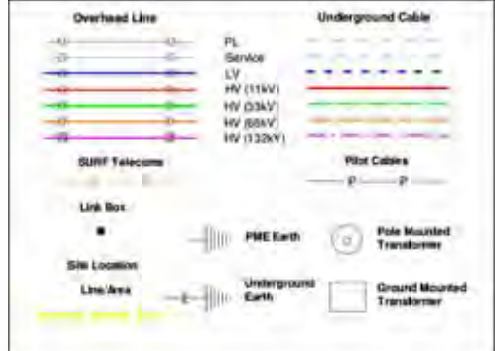
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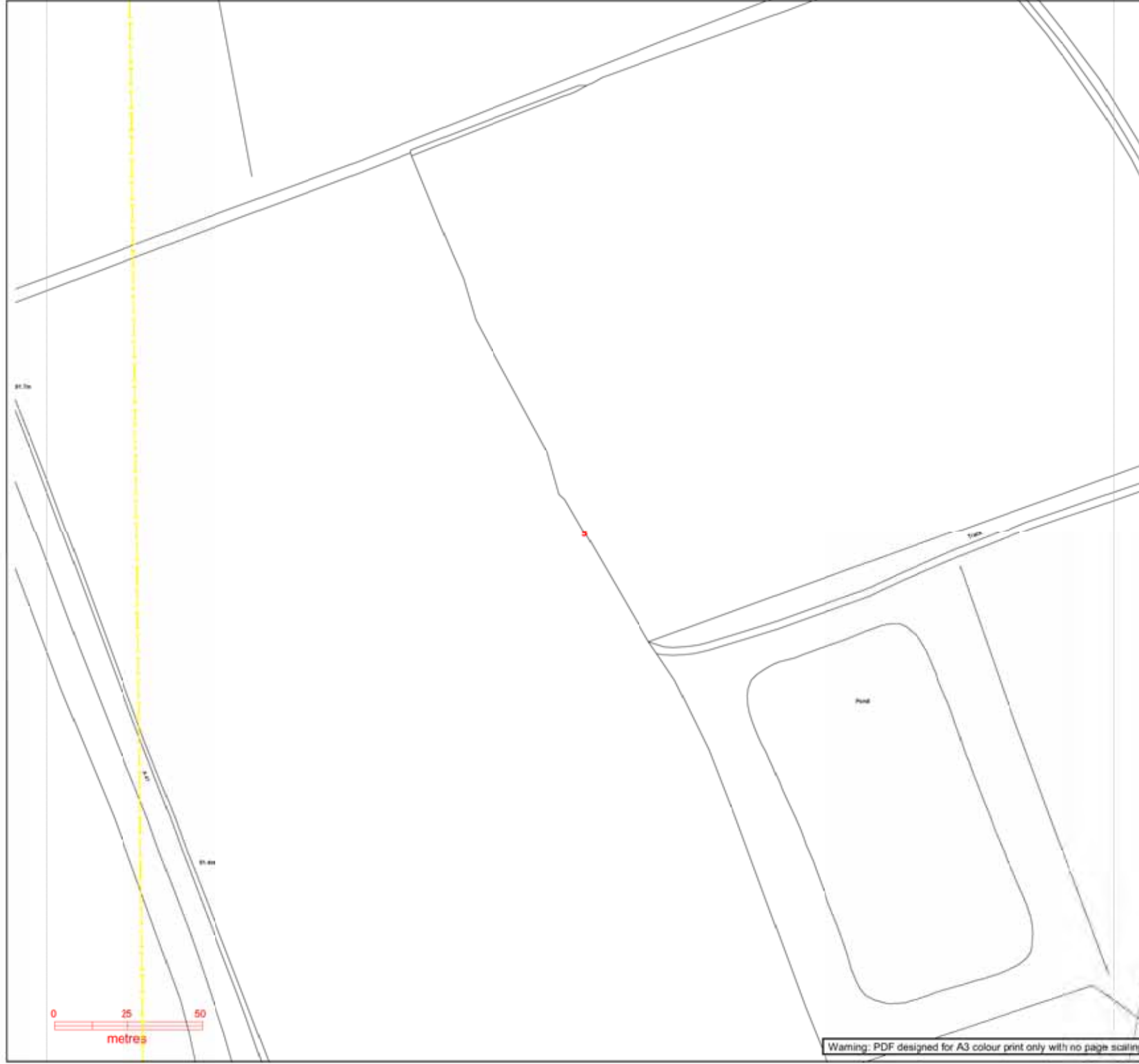
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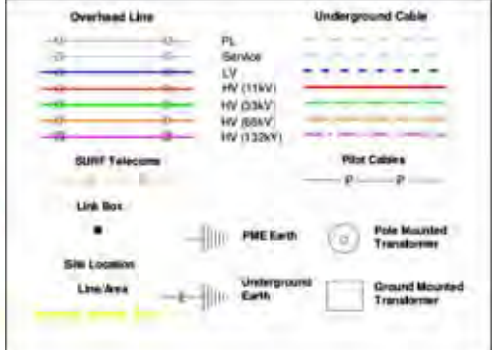
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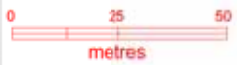
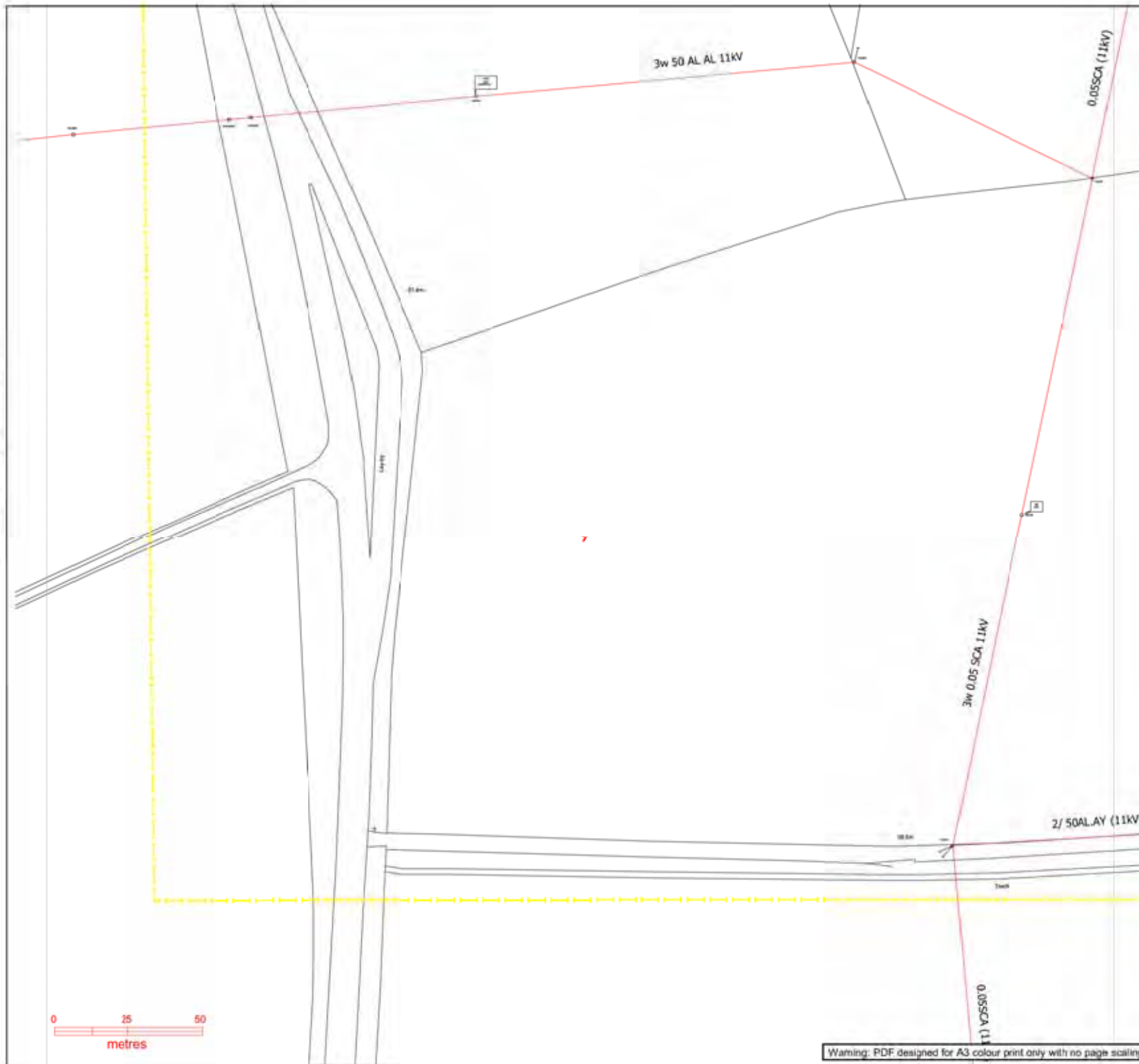
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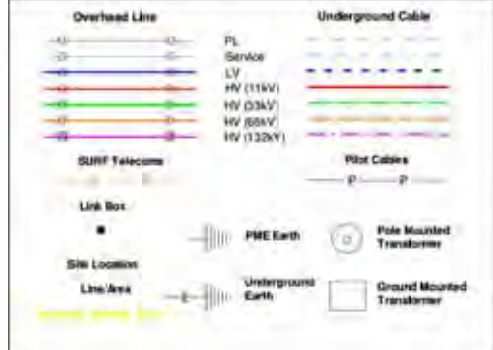
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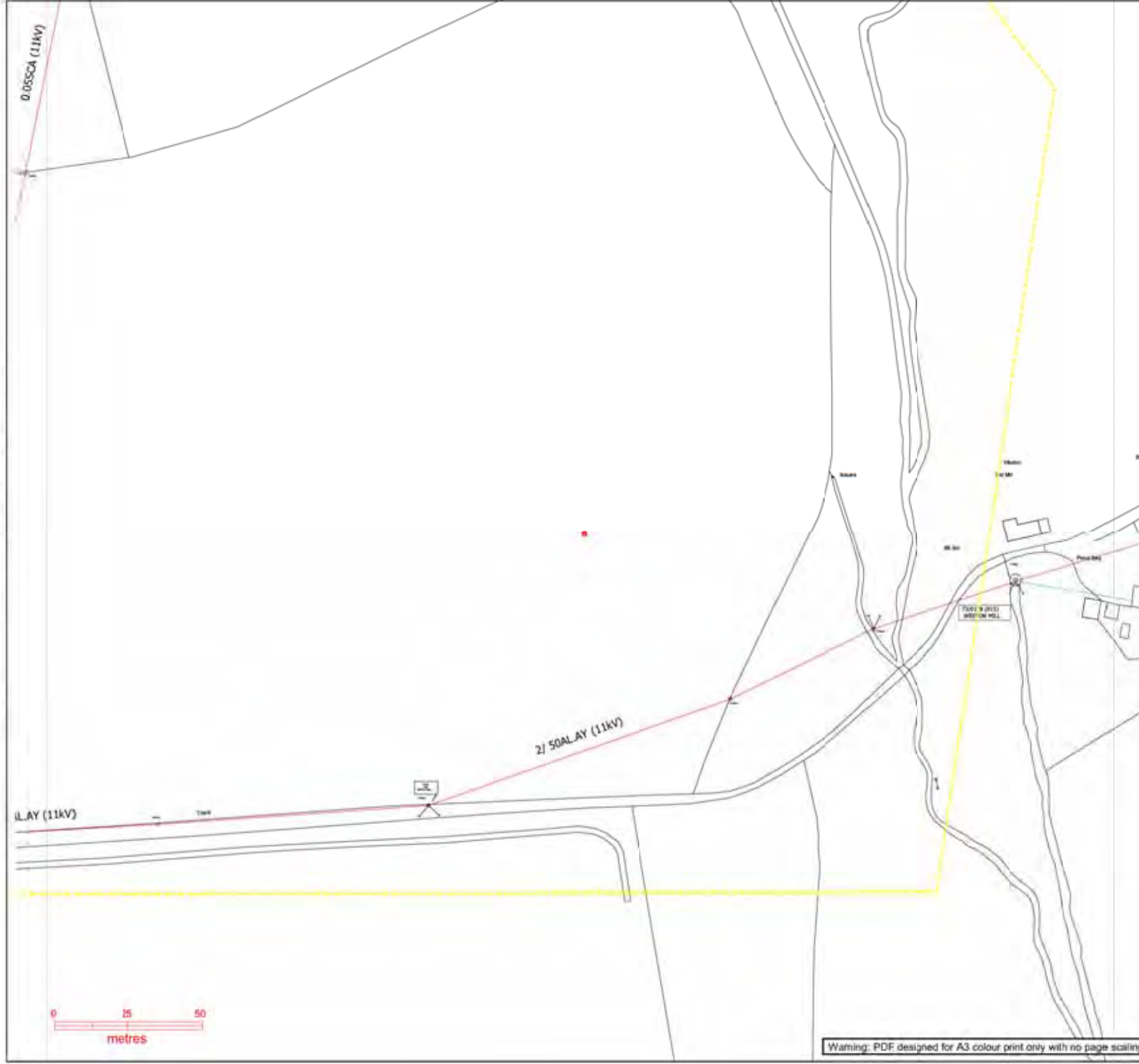
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Our Ref: 16078436 Your Ref: SP19424-5

Wednesday, 24 July 2019

Stephen Sawyer
Technics House Merrow Business Park
Guildford
Surrey
GU4 7WA

Western Power Distribution,
Mapping Centre
Toll End Road
Tipton
West Midlands
United Kingdom
DY4 0HH
www.westernpower.co.uk

Dear Stephen Sawyer

Thank you for your enquiry dated Wednesday, 24 July 2019

I now enclose a copy of our plan showing existing Western Power Distribution (WPD) Electricity / WPD Surf Telecom apparatus in the vicinity of your proposed works. This information is given as a general guide only and its accuracy cannot be guaranteed. Please note that all WPD equipment on site should be assumed to be LIVE until WPD prove otherwise and provide you with confirmation to this effect in writing. Recent additions to our network, or service connections between the main cable and a building or street lamp may not be shown.

Map Response
T 0121 623 9780
WPDMapResponse
@westernpower.co.uk

LinesearchbeforeUdig
Help Desk 0845 437 7365

Damage to underground cables and contact with overhead lines can cause severe injury or may prove fatal. If you are excavating on site in the vicinity of either WPD Electrical apparatus or WPD Surf Telecom apparatus you must comply with the requirements of the following:-

Health & Safety Executive guidance HS(G)47, Avoiding Danger from underground services.

Work taking place in the vicinity of our plant is also regulated under the:-

Electricity at Work Regulations 1989, Health and Safety Act 1974, CDM Regulations 2015.

Safe working procedures should be defined and practiced

Please ensure that the use of mechanical excavators in the vicinity of our plant is kept to a minimum. WPD Surf Telecom ducts contain fibre cables, which are expensive to repair. Therefore, extreme care must be taken whilst working in the vicinity of these ducts, hand digging methods being used to determine their precise position.

If there are overhead lines crossing your site and your proposal involves building works which may infringe the clearance to our overhead system then you should call the relevant general enquiries number (see page 2 of this letter) for advice. Where overhead lines cross your site you must comply with the requirements of Health & Safety Executive guidance as laid down in GS6, Avoidance of Danger from Overhead Electric Lines.

Western Power Distribution PLC
South West - 02366894
South Wales - 02366985
East Midlands - 02366923
West Midlands - 03600574

Where diversions to WPD apparatus are needed to allow change to occur on site, the cost of these alterations may be charged to the persons responsible for the works.

If you require advice in connection with your proposals please contact the relevant general enquiries number (see page 2 of this letter)

Registered in
England and Wales

Following consultation the local Western Power Distribution team will where necessary prepare detailed proposals and provide a quotation for any necessary alterations and/or development of our equipment on the site.

Registered Office:
Avonbank
Feeder Road
Bristol
BS2 0TB

Yours sincerely
WPD Map Response Team

Contact Us

Emergency or Power Supply issues

In an emergency call 105, 24 hours a day.

Mapping Enquiries

If you have an enquiry relating to this letter or the attached map plan, please contact us using the following information:

Telephone 0121 623 9780
Email WPDMapResponse@westernpower.co.uk

General Enquiries

If you have a general enquiry, please call us on the following telephone number:

All areas 0800 096 3080

LinesearchbeforeUdig

If you have an enquiry relating to the use of the LinesearchbeforeUdig website please contact LinesearchbeforeUdig using the following information:

Telephone 0845 437 7365
Email enquiries@linesearchbeforeudig.co.uk
Website www.linesearchbeforeudig.co.uk

Steps to help keep you safe

- If you are working within 10 metres of our 33kV, 56kV, 132kV underground electricity cables or within 10 metres of an overhead electricity line you should call the relevant General Enquiries for free safety advice.

Safety Documents – please download our informative safety documents to help ensure that you, your staff and the public are kept safe whilst working in the vicinity of electricity.

<https://www.westernpower.co.uk/customers-and-community/health-safety/public-safety-advice>

- **Make sure you have up to date plans** - remember that recent additions to our network or service connections between the main cable and a building or street lamp may not be shown.
- **Look for signs of service cables** - an electricity meter box or nearby streetlamp may give you an indication that service cables are present in your area of work.
- **Non WPD Network** - electricity cables, lines and equipment owned by others may also be present in addition to WPD network. They are unlikely to be shown on our plans.
- **Use a cable locator** - trace electricity cables and mark the position of them using paint or other waterproof marking on the ground.
- **Hand dig trial holes** - to confirm the position of cables in close proximity to your area of your work and use spades and shovels rather than picks, pins or forks.
- **Have an emergency plan** - so that everyone working on site understands what to do in the event of an underground electricity cable being damaged or contact being made with an overhead electricity line.
- **If you are working within 10 metres** of an overhead electricity line then it may be necessary for you to erect warning signs and markers, or height restriction goal posts. Ensure that you comply with the requirements of Health & Safety Executive guidance laid down in GS6, Avoidance of Danger from Overhead Electric Lines.
- **If you are erecting a structure** that could allow anyone standing on it, or its access device (ladder, scaffold, MEWP), to come within 3m of any overhead electric line then **you must inform us**. This is your duty and a legal requirement under the Electricity Safety, Quality & Continuity Regulations 2002.
- **If you cannot work safely** around the underground electricity cable or overhead electricity line, then you may need to get it moved to allow your works to go ahead. Call the general enquiry numbers above for guidance.
- **It is possible that cables or pipes may be embedded in concrete** - electricity cables embedded in concrete MUST be made 'dead' by Western Power Distribution or the cable owner before the concrete is broken out. Alternatively, another safe way of working should be agreed.

Cables are sometimes covered by tiles or a marker tape - these can be concrete, polythene or earthenware and are a useful early warning of the presence of cables; you should avoid disturbing any tiles or tape to expose the cable. Not all cables have these warning indicators.

Contact Us

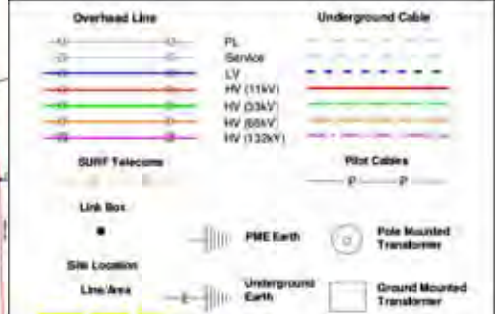
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Report damage immediately - KEEP EVERYONE AWAY FROM THE AREA
 0800 6723 105

Date Requested: 24/07/2019
 Job Reference: 16078436
 Site Location: 378311 309658
 Requested by: Mr Stephen Sawyer
 Your Scheme/Reference: 5P19424-5

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Overview

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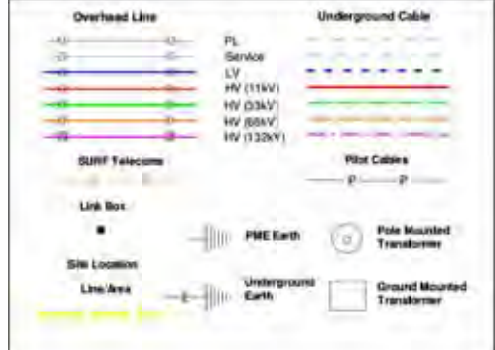
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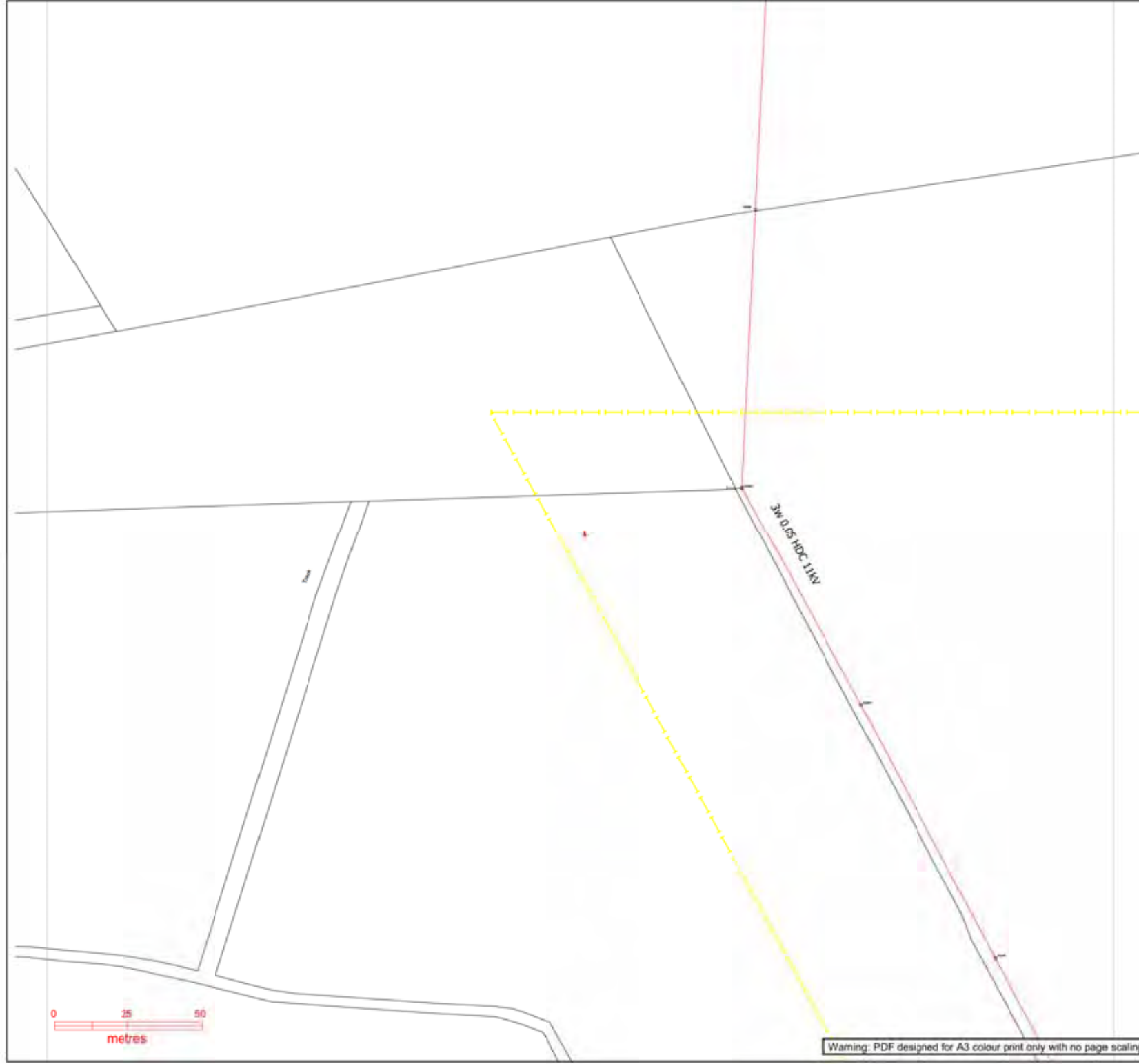
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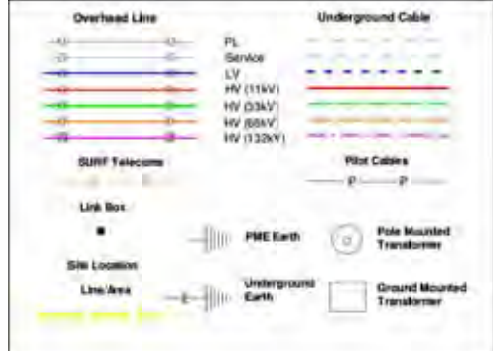
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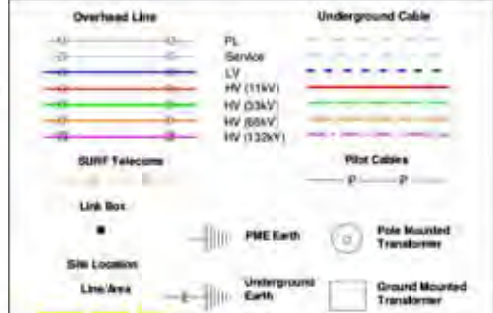
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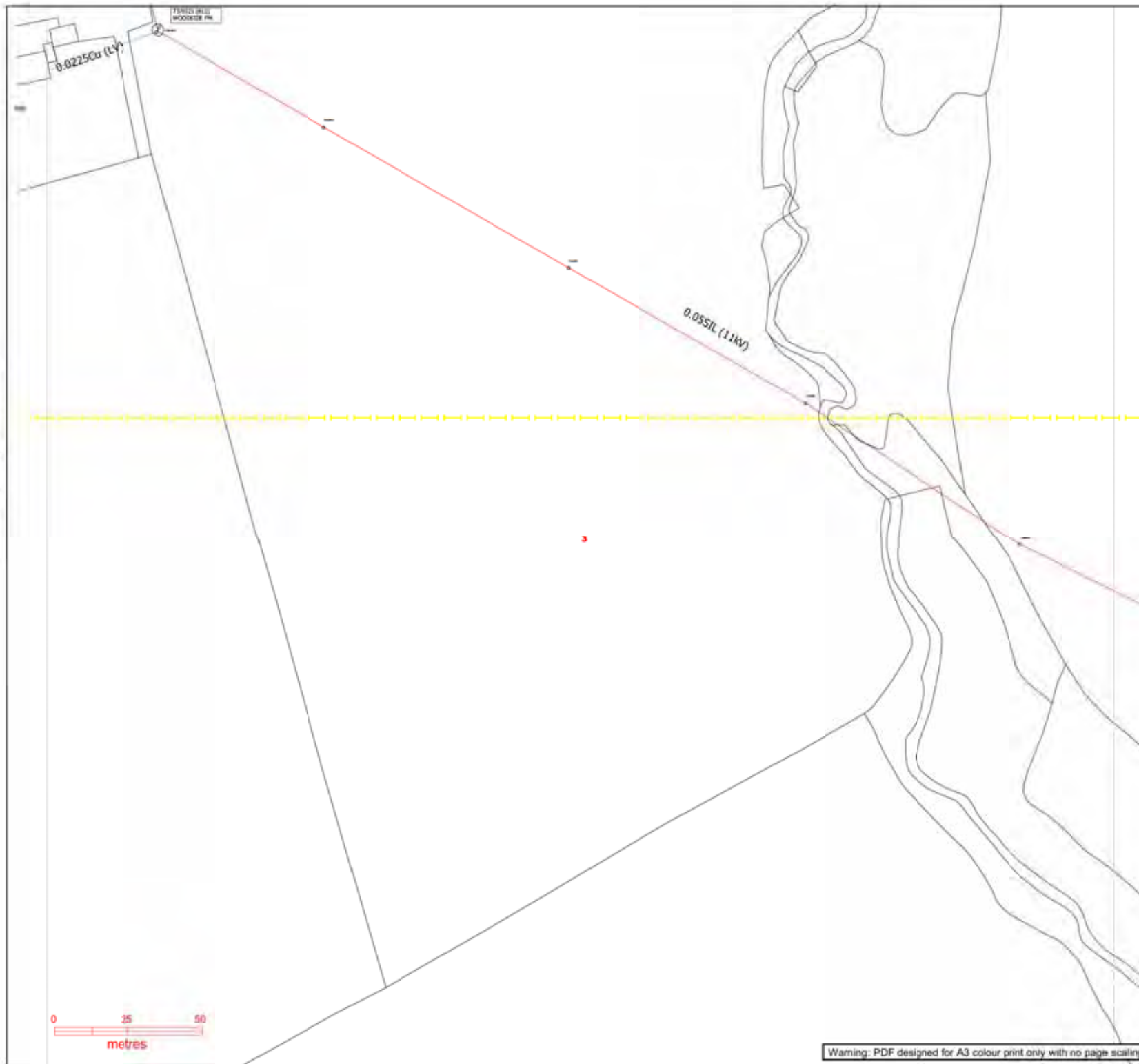
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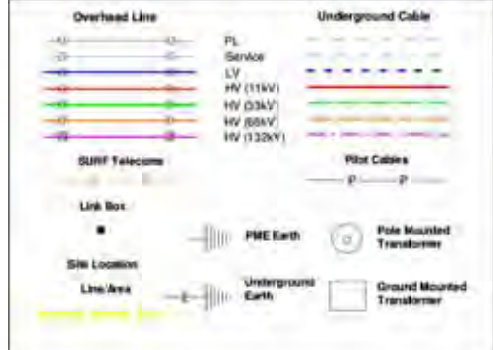
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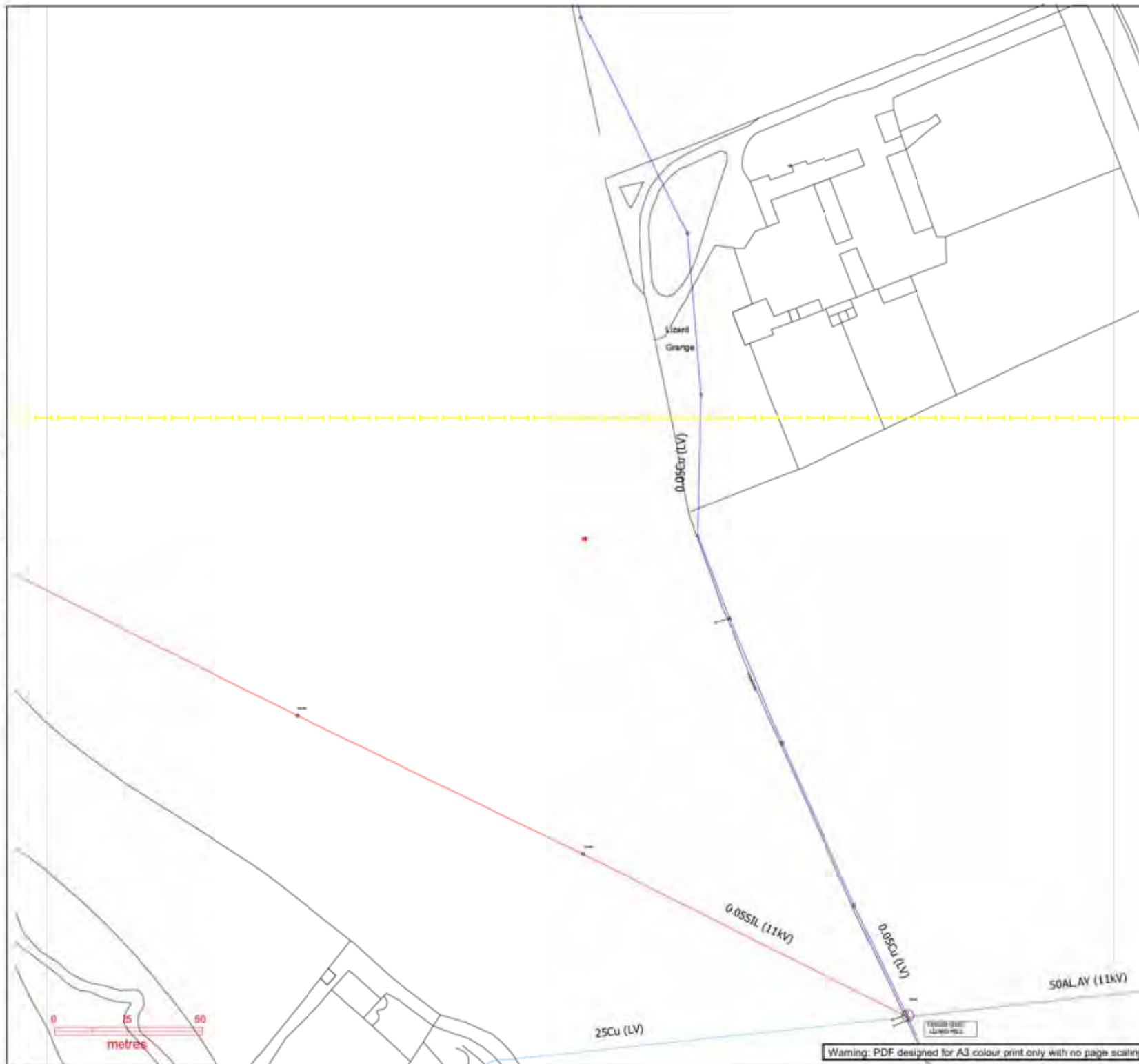
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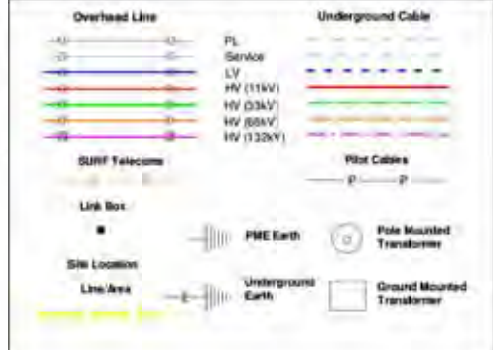
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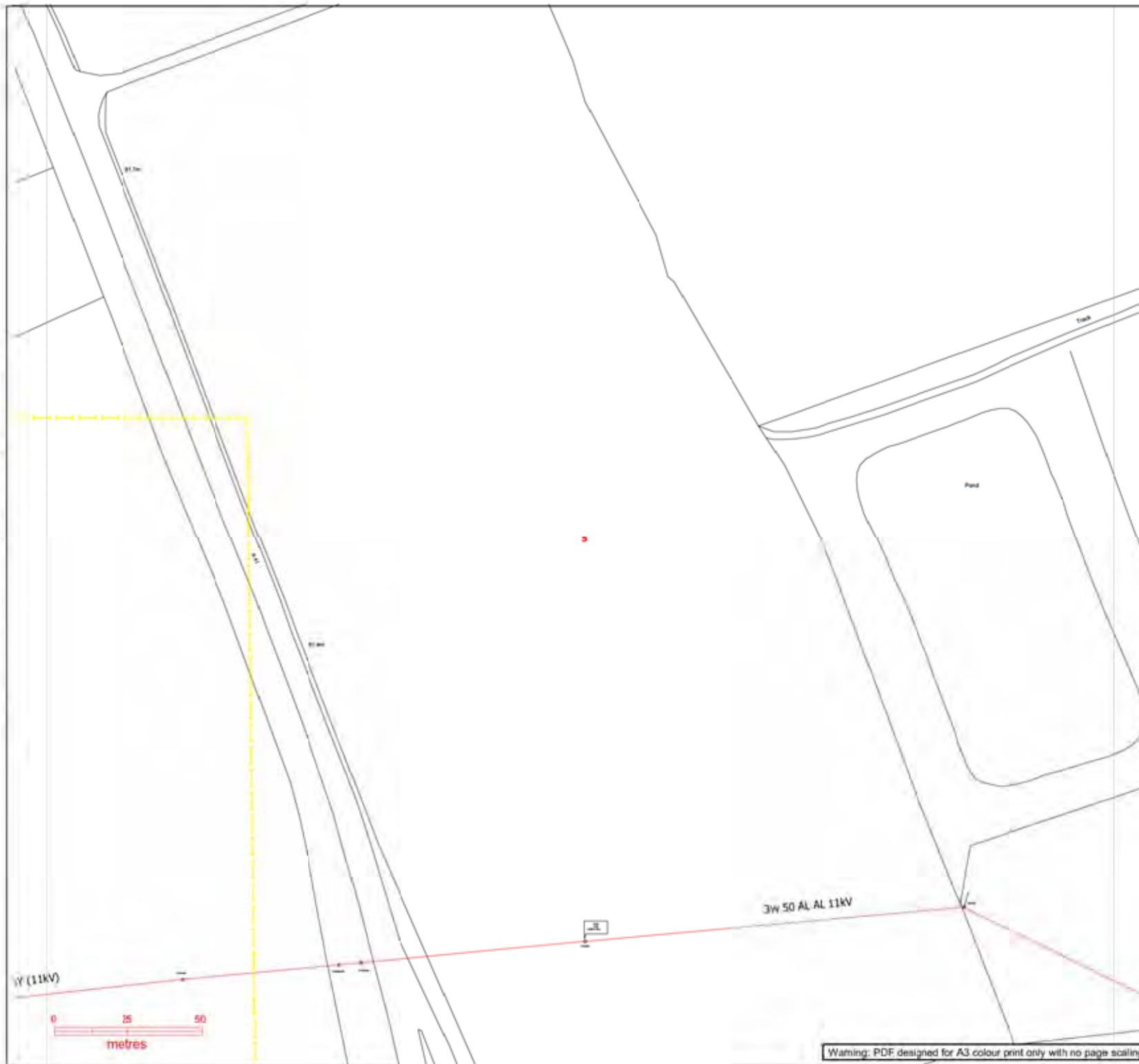
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Contact Us

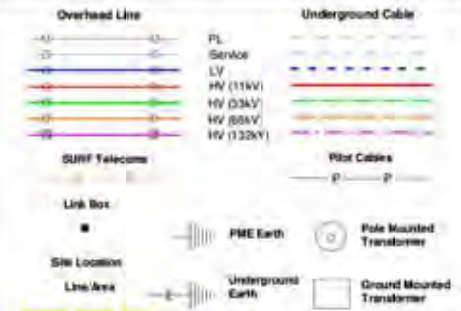
Mapping Enquiries: All areas 0121 623 9760 General Enquiries: All areas 0800 096 3080

Report damage immediately - KEEP EVERYONE AWAY FROM THE AREA
0800 6723 105

Date Requested: 24/07/2019
Job Reference: 16078436
Site Location: 378311 309658
Requested by: Mr Stephen Sawyer
Your Scheme/Reference: 5P19424-5
Exact Scales:
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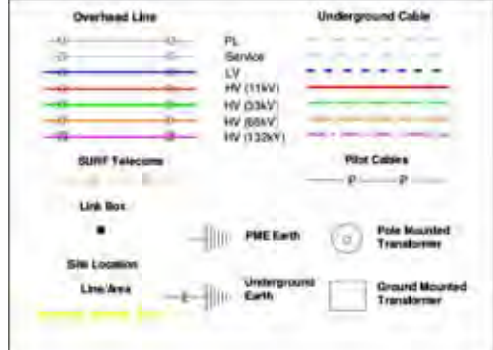
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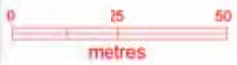
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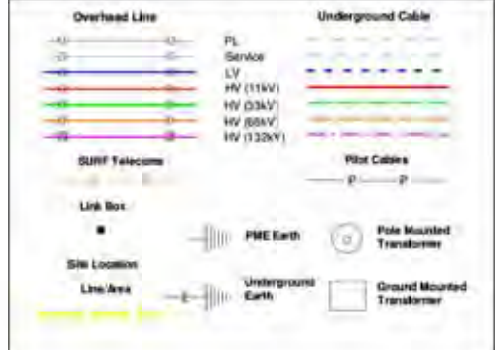
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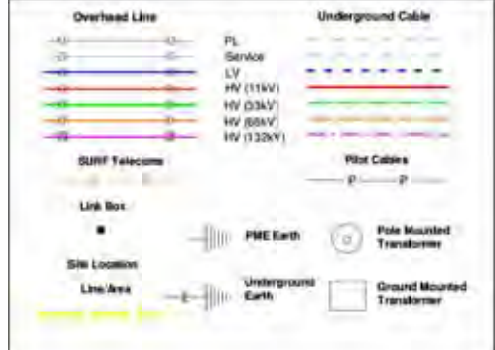
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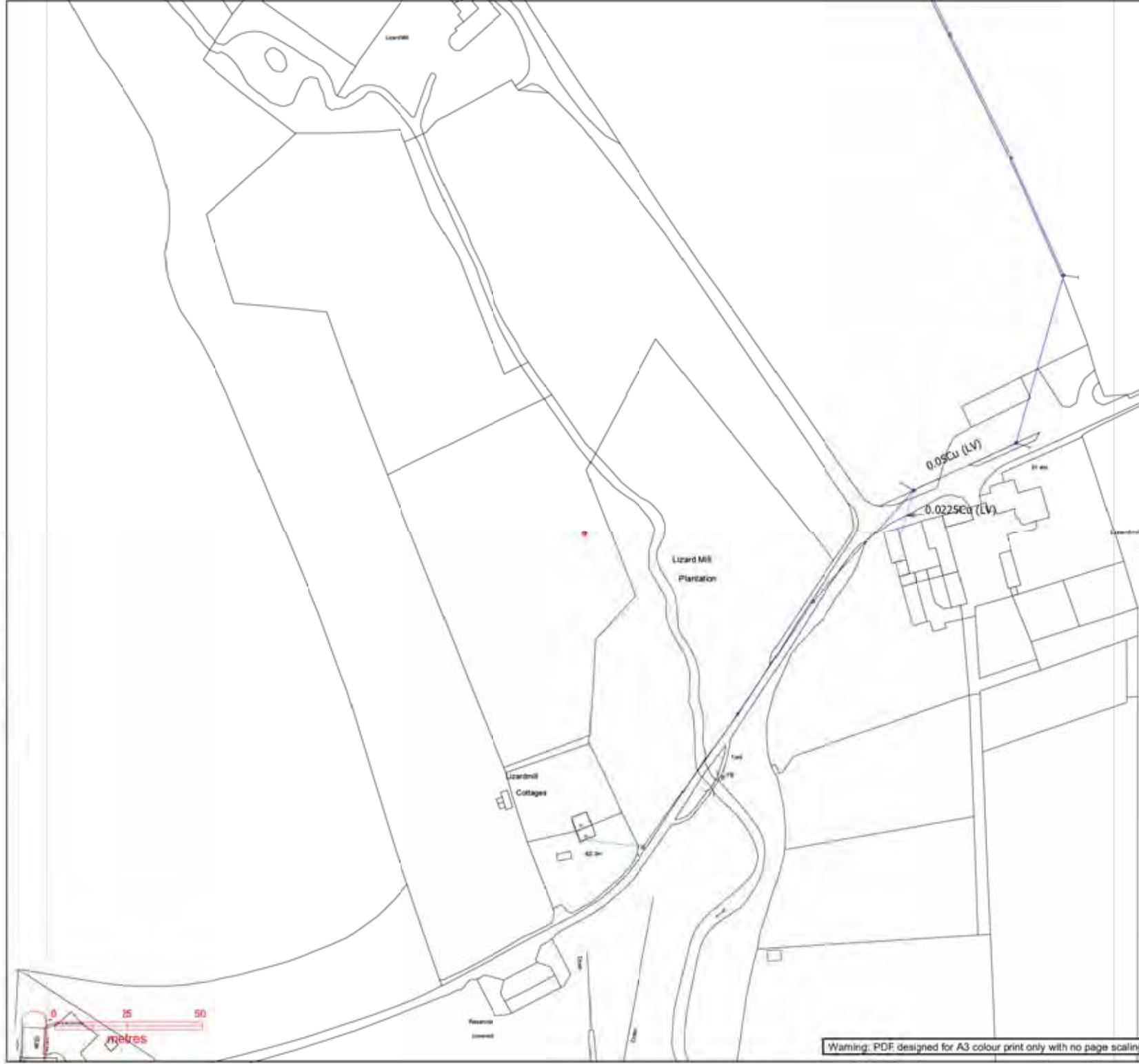
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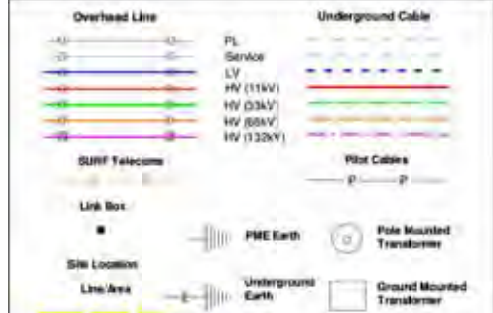
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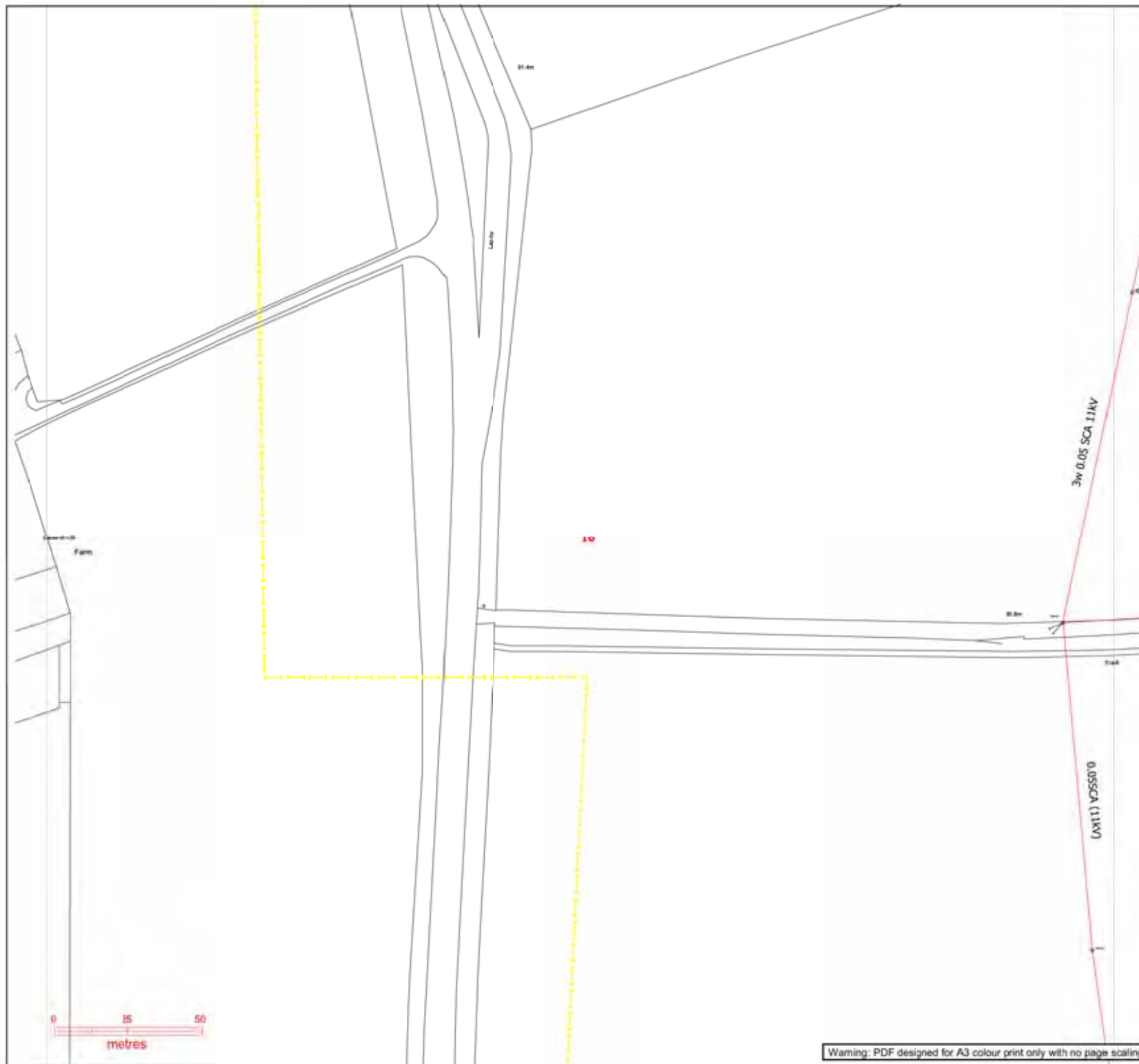
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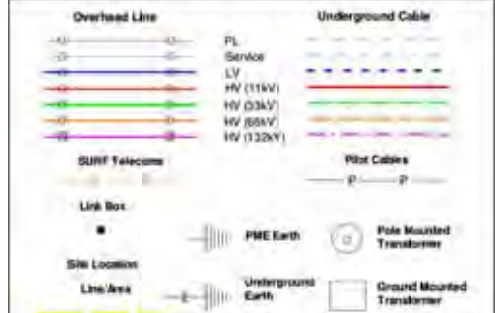
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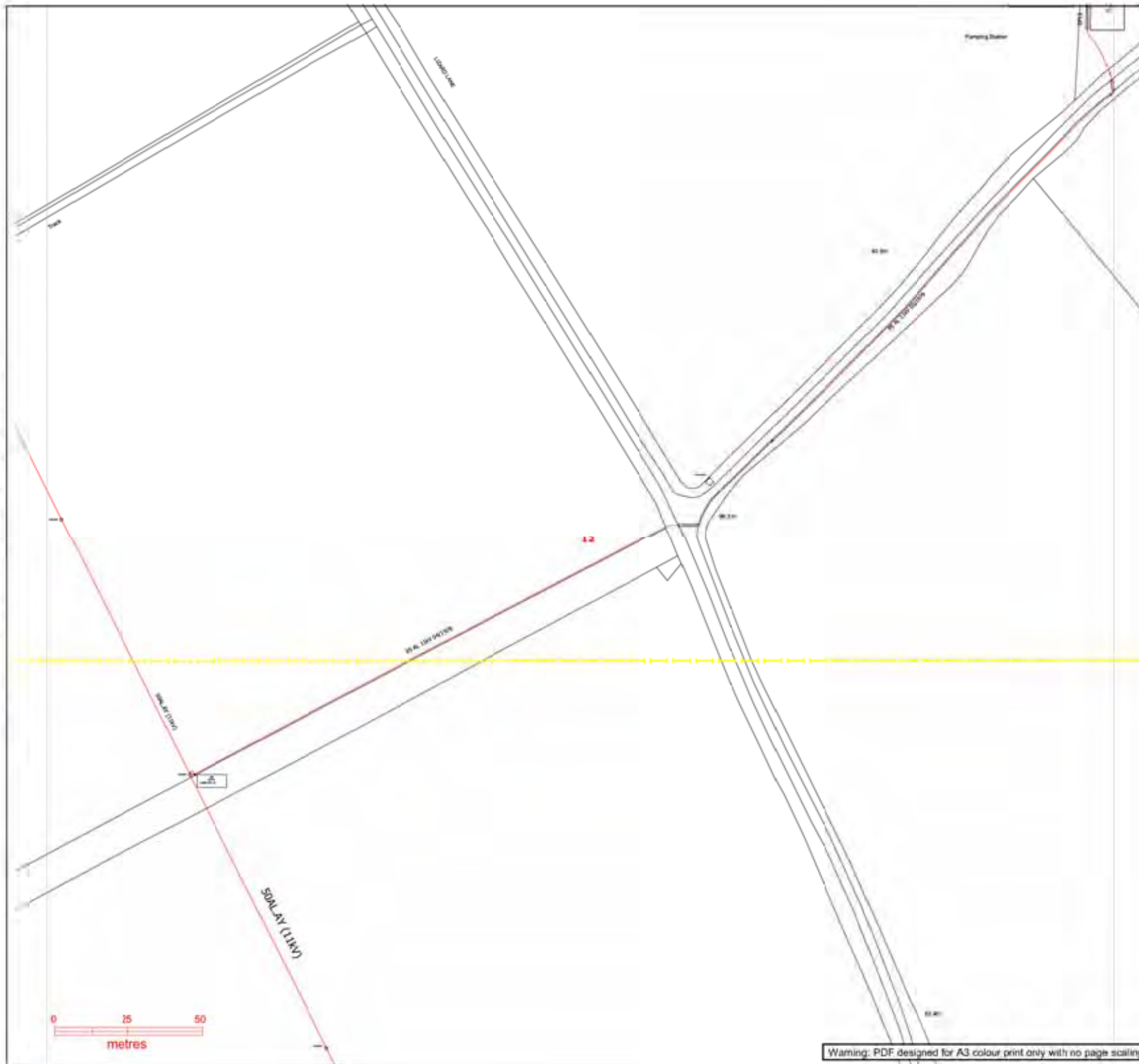
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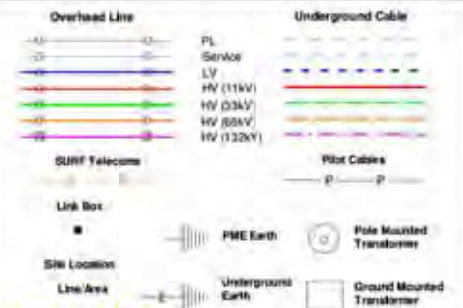
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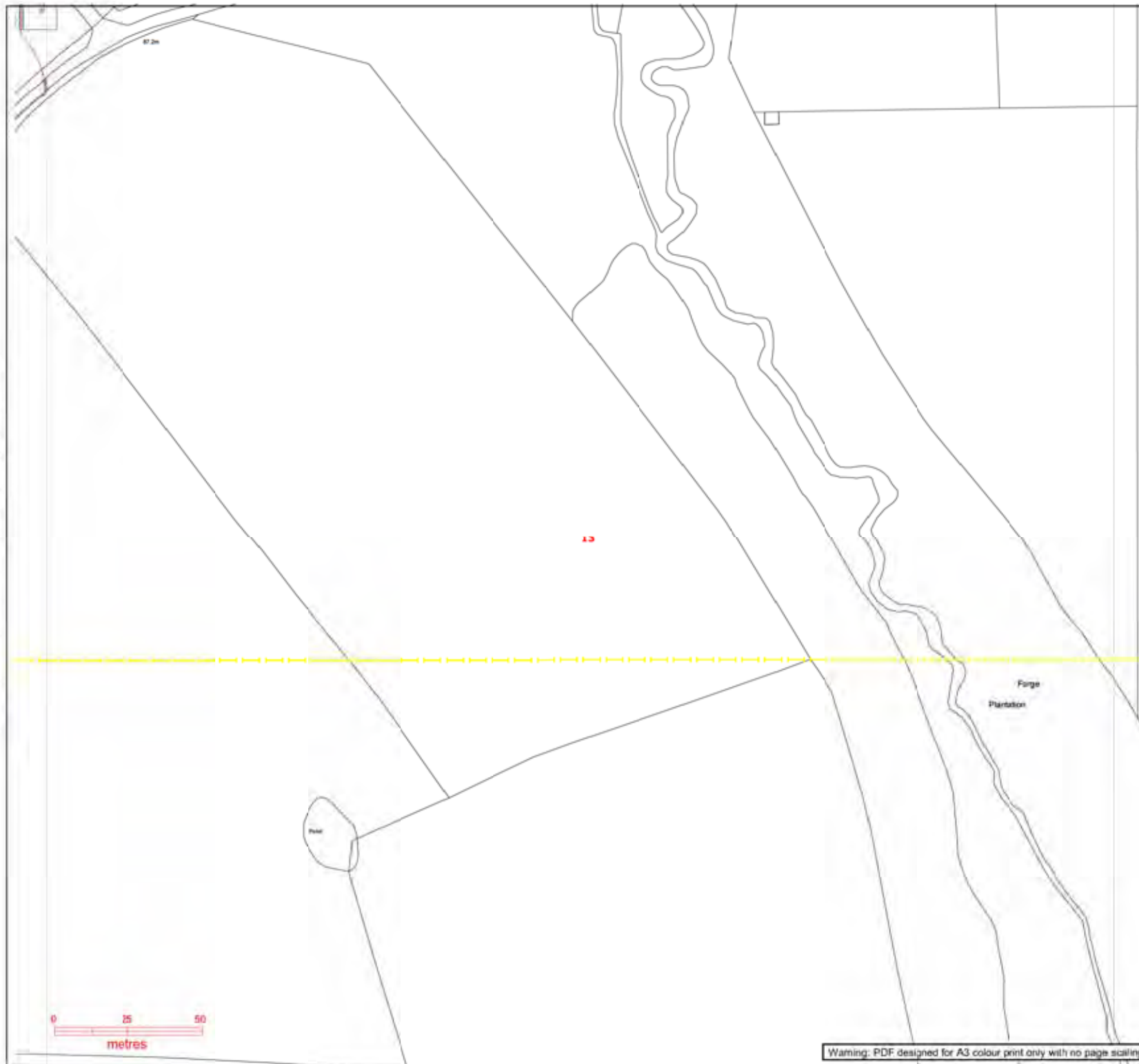
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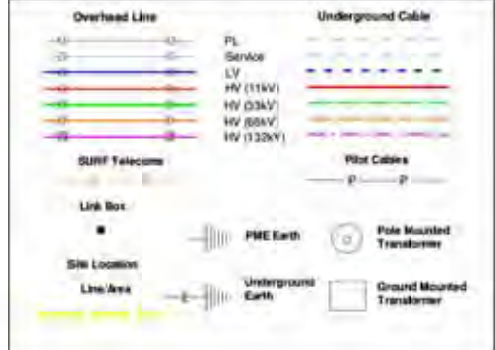
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Our Ref: 16078599 Your Ref: SP19424-6

Wednesday, 24 July 2019

Stephen Sawyer
Technics House Merrow Business Park
Guildford
Surrey
GU4 7WA

Western Power Distribution,
Mapping Centre
Toll End Road
Tipton
West Midlands
United Kingdom
DY4 0HH
www.westernpower.co.uk

Dear Stephen Sawyer

Thank you for your enquiry dated Wednesday, 24 July 2019

I now enclose a copy of our plan showing existing Western Power Distribution (WPD) Electricity / WPD Surf Telecom apparatus in the vicinity of your proposed works. This information is given as a general guide only and its accuracy cannot be guaranteed. Please note that all WPD equipment on site should be assumed to be LIVE until WPD prove otherwise and provide you with confirmation to this effect in writing. Recent additions to our network, or service connections between the main cable and a building or street lamp may not be shown.

Map Response
T 0121 623 9780
WPDMapResponse
@westernpower.co.uk

LinesearchbeforeUdig
Help Desk 0845 437 7365

Damage to underground cables and contact with overhead lines can cause severe injury or may prove fatal. If you are excavating on site in the vicinity of either WPD Electrical apparatus or WPD Surf Telecom apparatus you must comply with the requirements of the following:-

Health & Safety Executive guidance HS(G)47, Avoiding Danger from underground services.

Work taking place in the vicinity of our plant is also regulated under the:-

Electricity at Work Regulations 1989, Health and Safety Act 1974, CDM Regulations 2015.

Safe working procedures should be defined and practiced

Please ensure that the use of mechanical excavators in the vicinity of our plant is kept to a minimum. WPD Surf Telecom ducts contain fibre cables, which are expensive to repair. Therefore, extreme care must be taken whilst working in the vicinity of these ducts, hand digging methods being used to determine their precise position.

If there are overhead lines crossing your site and your proposal involves building works which may infringe the clearance to our overhead system then you should call the relevant general enquiries number (see page 2 of this letter) for advice. Where overhead lines cross your site you must comply with the requirements of Health & Safety Executive guidance as laid down in GS6, Avoidance of Danger from Overhead Electric Lines.

Western Power Distribution PLC
South West - 02366894
South Wales - 02366985
East Midlands - 02366923
West Midlands - 03600574

Where diversions to WPD apparatus are needed to allow change to occur on site, the cost of these alterations may be charged to the persons responsible for the works.

If you require advice in connection with your proposals please contact the relevant general enquiries number (see page 2 of this letter)

Registered in
England and Wales

Following consultation the local Western Power Distribution team will where necessary prepare detailed proposals and provide a quotation for any necessary alterations and/or development of our equipment on the site.

Registered Office:
Avonbank
Feeder Road
Bristol
BS2 0TB

Yours sincerely
WPD Map Response Team

Contact Us

Emergency or Power Supply issues

In an emergency call 105, 24 hours a day.

Mapping Enquiries

If you have an enquiry relating to this letter or the attached map plan, please contact us using the following information:

Telephone 0121 623 9780
Email WPDMapResponse@westernpower.co.uk

General Enquiries

If you have a general enquiry, please call us on the following telephone number:

All areas 0800 096 3080

LinesearchbeforeUdig

If you have an enquiry relating to the use of the LinesearchbeforeUdig website please contact LinesearchbeforeUdig using the following information:

Telephone 0845 437 7365
Email enquiries@linesearchbeforeudig.co.uk
Website www.linesearchbeforeudig.co.uk