KEYMER ROAD, BURGESS HILL





Project Name: Keymer Road, Burgess Hill

Job No: 14-205

Note Title: Utilities and Services Appraisal Technical Note

Author: NM

Checked: GG

Approved: GG

Date: July 2020

1.0 INTRODUCTION

- 1.1 Odyssey has been commissioned by Thakeham Homes Ltd (TH) to provide Utilities and Services technical support for the potential local plan allocation for the residential development of Land at Keymer Road, Burgess Hill.
- 1.2 The 15.3 hectare site is listed as site SA13 "Land East of Keymer Road and South of Folders Lane, Burgess Hill" in the Mid Sussex District Council (MSDC) Site Allocations Development Plan (2019), and has the description of a "housing allocation with on-site open space and children's equipped play space".
- 1.3 The aim of this appraisal is to assess the existing utilities infrastructure in the vicinity of the site, including a review of their capacity to accommodate the development proposals and identifying constraints and opportunities.
- 1.4 The information given in this report is based on information supplied by the various companies and authorities as of the date of this report.
- 1.5 Existing utility systems may have new third party connections made at any time. As a result, the advice given within this report is subject to change until updated information, formal quotations and asset plans have been issued by the various utility companies operating in the area.



- 1.6 This report is based on information supplied by the utility companies and authorities which has not been independently verified. Odyssey can give no explicit warranty as to their accuracy.
- 1.7 A site location plan can be found in **Appendix A**, the various utility records can be found in **Appendices B to G**, and a Utility Search Map can be found in **Appendix H**.

2.0 ELECTRICITY SUPPLY

2.1 UK Power Networks

Existing Infrastructure

- 2.1.1 UK Power Networks (UKPN) records show a Low Voltage (LV) network present along Folders Lane to the north of the site, and Keymer Road to the west of the site, which supplies the existing dwellings.
- 2.1.2 There are two areas conflict where cables cross into the site. One is on the western access to the TH site, with approximately 100 metres (m) of LV cable present from Keymer Road to supply the existing dwellings. The second is located along the road Broadlands, further south along Keymer Road. This section is minor, with approximately 5m of cable overlapping into the site boundary based on the records.
- 2.1.3 A High Voltage (HV) line, confirmed by UKPN to be 11 kilovolts (kV), is shown along Folders Lane to the north of the site, with a further section of cable present to the north-west of the site.

Diversions and Budget Estimate

- 2.1.4 As discussed above, there are two points at which UKPN-owned assets cross through the site. Diversionary works may be required along Broadlands and would be confirmed through a formal quotation informed with a site layout and accommodation schedule once available.
- 2.1.5 As one of the points at which UKPN-owned assets cross the site is from Keymer Road at an access point, there is potential for this to be utilised as a Point of Connection (PoC) to the site. This has been proposed by UKPN in previous correspondence relating to the TH site, and should be confirmed with a formal quotation once a site layout and accommodation schedule for the wider site have been obtained.



- 2.1.6 Electric supply would be delivered to the site by providing a HV cable to a new substation, with the location to be determined. LV mains cables would be laid throughout the site, and into UKPN proposed intake positions.
- 2.1.7 UKPN have confirmed that they would be able to supply the proposed development. A budget estimate from UKPN would be provided based on the following assumptions:
 - Dwellings would be gas heated.
 - The most appropriate PoC is as described above.
 - A viable cable or overhead line route exists along the route that has been assumed between the PoC and the site.
 - Where the PoC is to be HV, that a substation could be located on the premises at, or close to, the location that has been assumed.
 - Where electric lines are to be installed in private land, UKPN would require an easement in perpetuity for electric lines, and in the case of electrical plant the freehold interest in the substation site, without charge and before any work commences.
 - All loads are assumed to be of a resistive nature. Should equipment be intended to be installed that may cause disturbances to UKPN's electricity distribution system, this may affect the estimate considerably.
 - All UKPN work is to be carried out as a continuous programme of work that could be completed substantially within 12 months from the acceptance of the formal offer.
- 2.1.8 Further to the cost from UKPN to supply the wider site with suitable new connections, additional costs may be required for off-site reinforcement. This would be decided by the results of a network study, which would be carried out during preparation of a formal quotation for the site.
- 2.1.9 As part of providing new electrical connections to the site, it is anticipated a new enclosed substation would be required. Where a standard Glass Reinforced Plastic (GRP) substation enclosure could be used, an area of land 4m by 4m would be required. Should a brick substation be preferred, this area would need to be at least 5m by 5m. Planning permission would be required for the construction of a brick built enclosure, which would be the responsibility of the developer to obtain.
- 2.1.10 A formal quotation for the wider development, including the TH and Persimmon Homes (PH) parcels, should be sought once a site layout and accommodation schedule are available, to accurately determine to the cost of supplying the proposed development.



2.2 UK Power Solutions

Existing Infrastructure

2.2.1 Records show no UK Power Solutions (UKPS) owned apparatus within the site boundary.

Diversions and Budget Estimate

- 2.2.2 As there is no conflict between the site and any UKPS infrastructure, no diversions should be required at this point. A formal quotation for the wider development, including the TH and PH parcels, should be sought once a site layout and accommodation schedule are available, to accurately determine to the cost of supplying the proposed development. For Electricity records, refer to **Appendix B**.
- 2.2.3 A Dual Fuel budget request should be made to UKPS; refer to **Section 4.0**.

2.3 Gas Transportation Company

Existing Infrastructure

2.3.1 Records show no existing substation or pole mounted transformer located within the proposed development site boundary, and no existing Gas Transportation Company (GTC) owned HV cables or apparatus close to the proposed development site boundary.

Diversions and Budget Estimate

- 2.3.2 As there is no conflict between the site and existing GTC infrastructure, no diversions should be required at this point. This would be confirmed with a formal quotation once a site layout and accommodation schedule have been confirmed.
- 2.3.3 An application should be made to GTC to request a budget estimate for the provision of new gas supplies to the proposed development. This would be made as part of a Multi Utility request; refer to **Section 5.0**.



3.0 GAS

3.1 Gas Transportation Company

Existing Infrastructure

- 3.1.1 GTC has provided records for areas of residential development in the vicinity of the site for which they have existing assets.
- 3.1.2 GTC has a range of 63 125 millimetre (mm) mains along Shearing Drive, approximately 185m north-west of the site. GTC also own a predominantly 63mm main along Folders Lane, immediately to the north-east of the site.
- 3.1.3 South of the site, GTC owns a 63 90mm main serving dwellings on Wellhouse Lane. GTC also owns a 63mm mains system at 20-26 Folders Lane, immediately north of the site boundary.

Diversions and Budget Estimate

- 3.1.4 Based on the asset plans, there are no existing GTC services present across the site, therefore diversionary works are not anticipated.
- 3.1.5 An application should be made to GTC to request a budget estimate for the provision of new gas supplies to the TH parcel of the proposed development. This would be made as part of a Multi Utility request. Please refer to **Section 5.0**.

3.2 Southern Gas Networks

Existing Infrastructure

- 3.2.1 Southern Gas Networks (SGN) own a 180mm Medium Pressure (MP) main which serves Folders Lane north of the site, in parallel with a 63 90mm LP main which is also present along Folders Lane to the west of the site. The LP main serves Woodwards Close, south of Folders Lane. The MP main serves dwellings along Folders Grange, immediately north-west of the site.
- 3.2.2 SGN also own a 180mm LP main along Keymer Road to the west of the site. There is an area where SGN owned assets conflict with the site, to the west, associated with this LP main, which crosses into the site from Keymer Road. This cable is approximately 100m in length, and supplies the neighbouring residential dwellings, including Greenacres which is located within the site boundary, but is not being retained.



Diversions and Budget Estimate

- 3.2.3 There is a length of approximately 100m LP main which conflicts with the site from the west along Keymer Road. This main offers a PoC for the proposed development.
- 3.2.4 Liaison should be held with SGN to obtain a budget estimate for gas connections to the wider site, in which existing capacity and a suitable connection point would be identified. At this stage, it cannot be confirmed whether diversionary works would be required, or whether this existing length of cable could be utilised as a PoC.
- 3.2.5 A formal quotation for the wider development, including the TH and PH parcels, should be sought once a site layout and accommodation schedule are available, to accurately determine to the cost of supplying the proposed development. Gas records can be seen in **Appendix C**.

4.0 DUAL FUEL

4.1 Fulcrum Pipelines

Diversions and Budget Estimate

- 4.1.1 A budget estimate should be obtained from FP for the wider development, to provide accurate costs for providing utility connections for the proposed development. It has been confirmed that FP would be able to supply the proposed development. A budget estimate from FP would be provided based on the following assumptions:
 - Fulcrum would excavate, backfill and reinstate all trenches required outside the site boundary.
 - The customer would excavate, backfill and reinstate all trenches required within the site boundaries.
 - The customer would be required to provide suitable provision for all work and clear working access to site at all times.
 - Termination points assumed.
 - No meter installation/co-ordination or outlet pipework is included within this indicative price.
 - No easements or permissions would be required to carry out any of the proposed works.
 - Any CHP, compressors or boosters etc. to be connected to the proposed infrastructure
 would be done in accordance with all appropriate legislation/policies etc. to maintain the
 integrity and security of the existing infrastructure (this may mean upsizing of some or all of

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the proposed new infrastructure) and no additional design parameters have been included for.

- There would be sufficient capacity in the existing network.
- The indicative price quotation would not take into account, or include for, any specialist works; these include rail crossings, third party underground plant, design studies, reinforcement, diversions or disconnections etc. that may be required."
- 4.1.2 The budget estimate figure would be indicative and not represent an offer to carry out the works.

4.2 UK Power Solutions

Diversions and Budget Estimate

- 4.2.1 It has been confirmed that UKPS would be able to supply the site. A budget estimate should be obtained, which would include all "contestable" and "non-contestable" electrical and gas installation works from the PoC/Connected System Exit Point (CSEP) to the onsite metering positions. The budget estimate provided would be produced based on the following assumptions:
 - A HV point of connection is assumed to be available with no requirement for upstream reinforcement.
 - An LP gas CSEP is assumed to be available with no requirement for upstream reinforcement.
 - All onsite civil/excavation works would be by others.
 - All offsite civil/excavation works would be by UKPS.
 - The quote would exclude all possible diversions/disconnections.
 - The quote would exclude any required substation enclosure and earthing work.
 - Electric meter cabinets and hockey sticks would be provided by others.
 - Gas meters would be external at ground level.
- 4.2.2 The location of the PoC/CSEP in any other position or requirement for upstream reinforcement could have a significant impact on the connection costs.



5.0 MULTI UTILITY

5.1 Gas Transportation Company

Diversions and Budget Estimate

5.1.1 It has been confirmed that GTC would be able to supply the proposed development. A budget estimate from GTC would be provided based on the following assumptions:

Gas Assumptions

- GTC would assume a LP connection to feed the site.
- The quotation would include the excavation and reinstatement costs in the public highway
 which would be carried out by GTC from the point of connection to the site. GTC has
 received a connection off the GDN/iGT 125mm PE LP main adjacent to the entrance to
 Greenacres and have allowed for 146 metres off-site work from the connection point to the
 site entrance.
- The developer would be responsible for all on-site excavation and reinstatement.
- GTC would assume that any existing mains on-site would be abandoned. It is the responsibility of the developer to arrange works with the gas transporter.
- GTC would assume there are no environmental issues that may impact on the materials or methods of installation of its proposed networks.
- GTC would assume all mains and services feeding plots would be in trenches preexcavated by the developer.
- GTC mains would typically be laid down one side of the estate roads to minimise on road crossings, service lengths and mains lengths.
- The quotation would be based on smart meters in cavity meter boxes. Meter boxes should all be located on the front elevation or no more than 2m along a side elevation of each plot.
- The quotation would be based on all smart meters at the plots being installed by GTC (or its subcontractor) and owned by GTC Pipelines Ltd.

Electric Assumptions

 The quotation would include indicative PoC and off-site costs. Costs associated with the PoC would be subject to change.

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- PoC and off-site costs would be provided when the upstream DNO has provided these
 details in full. PoC and non-contestable charges would be the same, regardless of who is
 to own the network.
- GTC would assume a HV connection. GTC would assume that the developer would carry
 out all civil works associated with the substation at their own cost.
- The quotation would include the excavation and reinstatement costs in public highway (146m road), which would be carried out by GTC.
- GTC would assume that the developer would construct a brick-built housing for the substation to GTC specifications.
- If the development is in an area that the Environment Agency consider to susceptible to a
 risk of flooding, then any electrical plant and equipment would need to be established at a
 level 600mm above the 1 in 100 year predicted flood level, or the developer would need to
 guarantee that they have mitigated the risk of flooding by incorporating suitable flood
 defences.
- Diversionary or abandonment works may be required and would be excluded from GTCs quote. The details can be obtained by contacting the upstream DNO.
- The developer would be responsible for all on-site excavation and reinstatement.
- GTC would assume all mains and services feeding plots would be in trenches preexcavated by the developer.
- GTC mains would typically be laid down one side of the estate roads to minimise on road
 crossings, service lengths and mains lengths. The quote would not include ducting as this
 is the responsibility of the developer to install suitable ducts and jointing pits at the
 developers cost to GTC specification.
- The quotation would be based on plots having gas heating.
- The quotation would be based on meter positions for the houses to be external on the front
 elevation of each property. Where internal meters are to be fitted, the developer would be
 responsible for establishing a metering location in accordance with GTC standards GE-TGIIG-0015, details of which would need to be confirmed by the developer.
- The quotation would exclude meter boxes and hockey sticks. GTC could supply these at an additional charge of £22.10 each for standard meter boxes.
- The quotation would exclude the cost of Temporary Builders Supply (TBS). The indicative cost would assume the developer would be responsible for all excavation and reinstatement, the Developer would provide a weatherproof lockable box/kiosk with suitable internal space to accommodate the meter board with the meter location less than 25m from



- GTCs installed and energised mains. This price would include for the disconnection of the temporary supply upon request.
- The quotation would exclude the cost to connect adoptable street lighting columns. GTC could connect these for an additional charge, the current price for this work is £302.50 per column. This cost includes the supply and lay of 9m of service cable between GTCs existing LV mains and the street lights, the developer would provide ducting and excavation to GTC specifications.

Fibre Assumptions

- Any off-site excavation and reinstatement works required to be completed for a connection from the on-site fibre duct network on the development at the site entrance to the appointed Backhaul Provider would be carried out by GTC.
- The quotation would be based on GTC installing the fibre infrastructure using Direct Lay methodology as detailed in GTC document GF-TGI-IG-0593 – Direct Lay Fibre to the Home Premises. The developer would need to install the 50mm fibre service duct and complete installation of the chambers.
- The developer would be responsible for all on-site excavation and reinstatement associated with the installation of the fibre network, including the mains, services and On-Site Convergence Point (OSCP).
- The developer would be responsible for preparation within the Plots to ensure a Plot is ready to receive a fibre service. GTC would liaise with the developer on the specific requirements during the design stages and brief out final requirements at a fibre construction pre-start meeting.
- All works should be completed in line with the appropriate Fibre Technical Guidelines (Direct Lay Fibre to the Home Networks GF-TGI-IG-0393 or Fibre to the Home GF-TGI-IG-0016).
- GTC would strongly recommend the developer follows the minimum in-home technical requirements as specified within the appropriate Fibre Technical Guidelines.
- The developer would be responsible for ensuring that each Plot is pre-wired to enable the
 resident to receive Sky Q television services (via satellite dish or communal FIRS) in
 accordance with the enclosed Sky Approved developer Terms.
- The offer would include the option of Fibre Integrated Reception System (FIRS). If selected, a FIRS signal survey would be performed following acceptance of the proposal to finalise the positioning of the aerials and dish. The FIRS aerial and dish would require a solid mounting within visibility of the terrestrial transmitters and satellite. This mounting would typically be on the wall of a substation, roof top of an apartment block or similar solid object.



The mounting must be within approximately 20 metres of the OCSP or cabinet housing the FIRS equipment. If no such object is available, an additional charge may be necessary to provide a mast or similar. Should a mast be required, the developer would need to seek appropriate planning permission for its deployment. Where FIRS equipment is deployed within an apartment block riser it must be fed using a landlord supply and accessible to Open Fibre Networks Ltd (OFNL) to inspect, maintain, adjust and repair.

- 5.1.2 As noted above, GTC would provide a fee for the option of FIRS. This would require a developer contribution, and should be confirmed by GTC.
- 5.1.3 A formal quotation for the wider development, including the TH and PH parcels, should be sought once a site layout and accommodation schedule are available, to accurately determine to the cost of supplying the proposed development.

6.0 POTABLE WATER

6.1 South East Water

Existing Infrastructure

- 6.1.1 South East Water (SEW) are the potable water supplier in the area, and own several distribution mains in the vicinity of the site. A 90mm main is shown to be present along Folders Lane north of the site, serving dwellings in Folders Gardens and Woodwards Close.
- 6.1.2 Furthermore, a 250mm main is shown to be present along Keymer Road, to the west of the site, with 180mm MDPE mains also flowing parallel to the 250mm main. This splits into a 63mm main to serve dwellings to the east of Keymer Road and the west of the site.
- 6.1.3 There is an area of conflict with the site associated with this separate split of 63mm main to the east of Keymer Road, on the western boundary of the site. This section of cable supplies the Greenacres dwelling, located within the site boundary.

Diversions and Budget Estimate

6.1.4 There is an area of conflict along the western boundary of the site, associated with the Greenacres residential property which is located within the site boundary. This part of the site would be used as a vehicular access to the site. There is potential for this main to be used as a PoC for the site. This should be discussed with SEW through a budget estimate and formal quotation once a site layout and accommodation schedule is available for the wider development.



6.1.5 Suitable liaison should be held with SEW to identify whether diversion works would be required for the conflict with the site, or whether this existing length of main could be utilised for supplies to the site. Potable water records can be seen in **Appendix D**.

7.0 FOUL WATER SEWERAGE

7.1 Southern Water

Existing Infrastructure

7.1.1 Southern Water (SW) asset records show foul sewers located along Folder Gardens north of the site, along Keymer Road and through Greenlands Drive to the west of the site. These sewers are 150mm diameter and made of Vitrified Clay. The nearest accessible manhole is ref. 8802, located along Keymer Road, to the west of the site.

Diversions and Budget Estimate

- 7.1.2 There are no existing SW sewers conflicting with the site, therefore diversion works are not anticipated.
- 7.1.3 A Pre-Planning Enquiry should be completed with SW to identify available capacity in the existing network, and to identify whether any infrastructure upgrades would need to be conducted to facilitate the flows from the proposed development. Should infrastructure upgrades to the existing network be required, plans should be made to ensure this work is completed in a suitable timeframe considering the phasing for the proposed development. This would ensure the works are programmed to accord with the occupancy rate of the site. Foul water records can be seen in **Appendix E**.

8.0 TELECOMMUNICATIONS

8.1 BT Openreach

Existing Infrastructure

8.1.1 BT Openreach own several cables within the immediate vicinity of the site, including on Folders Lane and Folders Gardens to the north of the site, and Ockley Lane and Keymer Road to the west of the site.



- 8.1.2 It is noted that one cable is present east of the site along Wintons Close, and appears to conflict with the north-east corner of the site. Based on the record, the cable is present for a length of approximately 37m before terminating.
- 8.1.3 Furthermore, there is a conflict with the site on the western boundary from Keymer Road. This main supplies the Greenacres residential property, which is located within the site boundary. There is approximately 115m of cable located within the site boundary at this point.

Diversions and Budget Estimate

- 8.1.4 BT Openreach would provide new supplies at little or no cost to the developer, and Fibre to the Premises (FTTP) would be installed free of charge for the development, owing to the development proposals consisting of more than 30 dwellings.
- 8.1.5 There are two areas on the site where BT-owned apparatus interfere with the site boundary. It is anticipated that diversionary works would be required to adjust the length of cable north-east of the site, to ensure there is no conflict with the proposed development.
- 8.1.6 The cable from Keymer Road could be utilised as a PoC to the existing network, at the location of the proposed access.
- 8.1.7 The exact cost of any proposed work cannot be confirmed at this stage. Once BT Openreach has sufficient site information, they could proceed and put together an estimate for the cost of any required diversion works.

8.2 CityFibre

Existing Infrastructure

8.2.1 Upon review of CityFibre's records, no existing assets shown to impact the site. Diversionary works are not anticipated.

8.3 SKY Telecommunications

Existing Infrastructure

8.3.1 Correspondence has been received from SKY Telecommunications stating that "SKY Telecommunications Services Ltd will not be affected by your proposal". On this basis, diversionary works are not anticipated to be required.



8.4 Verizon

Existing Infrastructure

8.4.1 Correspondence has been received from Verizon, which states "we have reviewed your plans and have determined that Verizon (Formally known as MCI WorldCom, MFS) has no apparatus in the areas concerned". On this basis, diversionary works are not anticipated.

8.5 Vodafone

Existing Infrastructure

8.5.1 Correspondence has been received from Vodafone, which states "please accept this email as confirmation that Vodafone: Fixed <u>does not</u> have any apparatus within the vicinity of your proposed works below". Diversionary works are not anticipated. Telecommunications records can be seen in **Appendix F**.

9.0 STREET LIGHTING

9.1 West Sussex County Council

Existing Infrastructure

9.1.1 Records from West Sussex County Council (WSCC) show street light provision along Folders Lane north of the site, and Keymer Road to the west of the site. However, there is no conflict with the site. Diversionary works are not anticipated. Street lighting records can be seen in **Appendix G**.

10.0 SUMMARY AND CONCLUSIONS

- 10.1 Odyssey has been commissioned by TH to provide a Utilities and Services Appraisal Technical Note for the proposed residential development of Land at Keymer Road, Burgess Hill.
- This appraisal has assessed the existing utilities infrastructure in the vicinity of the site, and has reviewed the capacity to accommodate the development proposals, and has identified constraints and opportunities.
- 10.3 It has been demonstrated suitable utility infrastructure is present in the surrounding area to service the proposed development. Diversionary and PoC works are expected to various utilities

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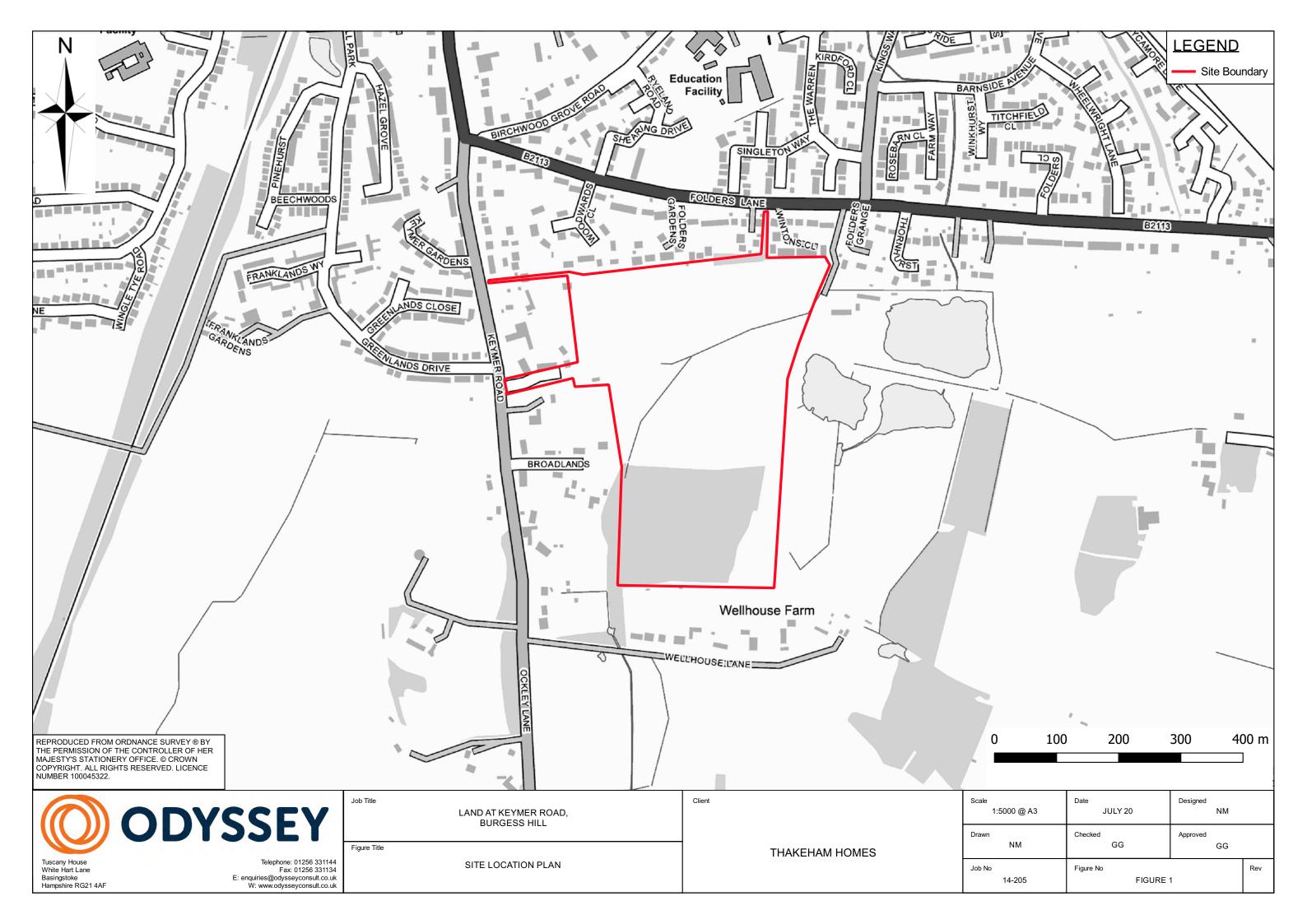


along the western boundary of the site associated with Keymer Road and the Greenacres dwelling (located within the site boundary).

- 10.4 Liaison should be held with the relevant providers to confirm budget estimate costs for supply, diversion and reinforcement. This should be completed at an early stage, to ensure that any required works are identified and completed in a timeframe concurrent with the phasing and occupancy rates of the site.
- 10.5 Budget estimates and formal quotations for the provision of various utilities to the wider development, including the TH and PH parcels, should be sought once a site layout and accommodation schedule are available, to accurately determine to the cost of supplying the proposed development with the required utilities and services.
- 10.6 The information provided in this report has been based on information supplied by the various companies and authorities as of the date of this report.
- 10.7 The various utility records received can be found in **Appendices B to G**, and a Utility Search Map can be seen in **Appendix H**.

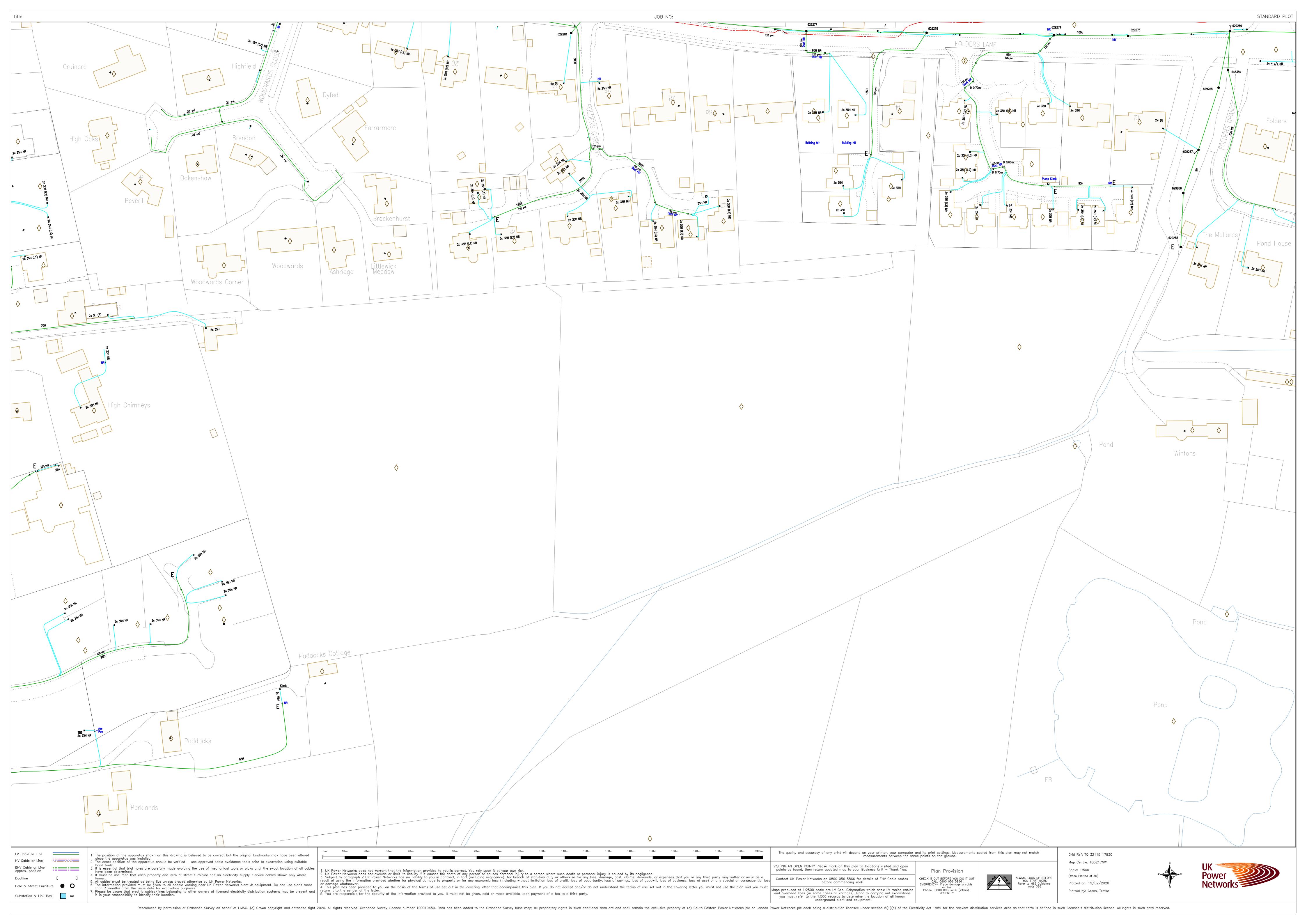
APPENDIX A

Site Location Plan



APPENDIX B

Electricity Records





Registered Office:
Newington House
237 Southwark Bridge Road
London SE1 6NP

Company: UK Power Networks (Operations) Limited

Registered in England and Wales No: 3870728

Mr N Metcalfe Odyssey Tuscany House White Hart Lane Basingstoke Hampshire RG21 4AF

20th February 2020 Our Ref: 8500141043

Dear Mr Metcalfe,

Site Address:- Keymer Road, Burgess Hill RH15 0DR.

Thank you for your recent enquiry regarding the above premises. I am writing to you on behalf of South Eastern Power Networks PLC the licensed distributor of electricity for the above address trading as UK Power Networks.

I am pleased to be able to provide you with a budget estimate for the work. It is important to note that this budget estimate is intended as a guide only. It may have been prepared without carrying out a site visit or system studies. No enquiry has been made as to the availability of consents or the existence of any ground conditions that may affect the works. It is not an offer to provide the connection and nor does it reserve any capacity on UK Power Networks' electricity distribution system.

1. Budget estimate

The budget estimate for this work is: £265,000.00 (exclusive of VAT) if the Point of Connection (POC) is to the high voltage network along Greenlands Drive. This is to provide 130 connections at 230volts.

This budget estimate is to provide a high voltage supply to a new substation in the middle of the proposed development, to lay low voltage main cables through the site and to lay a low voltage cable into the proposed intake positions. This is based on the method of heating being gas, all the excavation and reinstatement on the site being carried out by your contractors.

Please note the regulations for multi-occupancy buildings have changed and UK Power Networks responsibility will finish at the cut out position (please see enclosed leaflet).

Additional costs may be required for off-site reinforcement. This will be decided by the results of a network study, which will be carried out during preparation of the formal quotation. The price would depend on site conditions, on obtaining any necessary legal consents, traffic

management requirements, final load details, site layout and the route of our incoming cable(s).

It will be necessary to establish a new totally enclosed substation on the development site, in situations where a standard GRP substation enclosure can be used, an area of land of at least 4m x 4m will be required. If, however, you prefer to construct a brick substation then an area of land of at least 5m x 5m will be required. Planning Permission, although not required for a GRP substation, will be required for a brick built enclosure, and it will be your responsibility to obtain this.

The substation must be located such as to minimise the need for the manual handling of heavy plant. The Manual Handling Operations Regulations 1992 require the use of mechanical handling whenever this reasonably practicable. To meet these regulations, we use a lorry-mounted crane to deliver substation plant. The project must therefore be planned to ensure that it is suitable for the delivery of plant from a large vehicle. The Construction (Design and Management) Regulations 2015 also require that consideration be given to the safe installation, maintenance and eventual removal of equipment. To comply with this legislation, we need to be able to gain access with a suitable vehicle throughout the life of the project.

2. Budget estimate assumptions

This budget estimate is based on the following assumptions:

- The most appropriate Point of Connection (POC) is as described above.
- A viable cable or overhead line route exists along the route we have assumed between the Point of Connection (POC) and your site.
- In cases where the Point of Connection (POC) is to be at High Voltage, that a substation can be located on your premises at or close to the position we have assumed.
- Where electric lines are to be installed in private land UK Power Networks will require
 an easement in perpetuity for its electric lines and in the case of electrical plant the
 freehold interest in the substation site, on UK Power Networks terms, without charge
 and before any work commences.
- Unless stated in your application, all loads are assumed to be of a resistive nature.
 Should you intend to install equipment that may cause disturbances on UK Power Networks' electricity distribution system (e.g. motors; welders; etc.) this may affect the estimate considerably.
- All UK Power Networks' work is to be carried out as a continuous programme of work that can be completed substantially within 12 months from the acceptance of the formal offer.

Please note that if any of the assumptions prove to be incorrect, this may have a significant impact on the price in any subsequent quotation. You should note also that UK Power Networks' formal connection offer may vary considerably from the budget estimate. If you place reliance upon the budget estimate for budgeting or other planning purposes, you do so at your own risk.

If you would like to proceed to a formal offer of connection then you should apply for a quotation, Please refer to our website http://www.ukpowernetworks.co.uk/internet/en/help-and-advice/documents/the_connection_process.pdf for 'The connection process' which details our application process. To help us progress any future enquiry as quickly as possible please quote the UK Power Networks Reference Number from this letter on all correspondence.

If you have any questions about your budget estimate or need more information, please do not hesitate to contact me. The best time to call is between the hours of 9am and 4pm, Monday to Friday. If the person you need to speak to is unavailable or engaged on another call when you ring, you may like to leave a message or call back later.

Yours sincerely

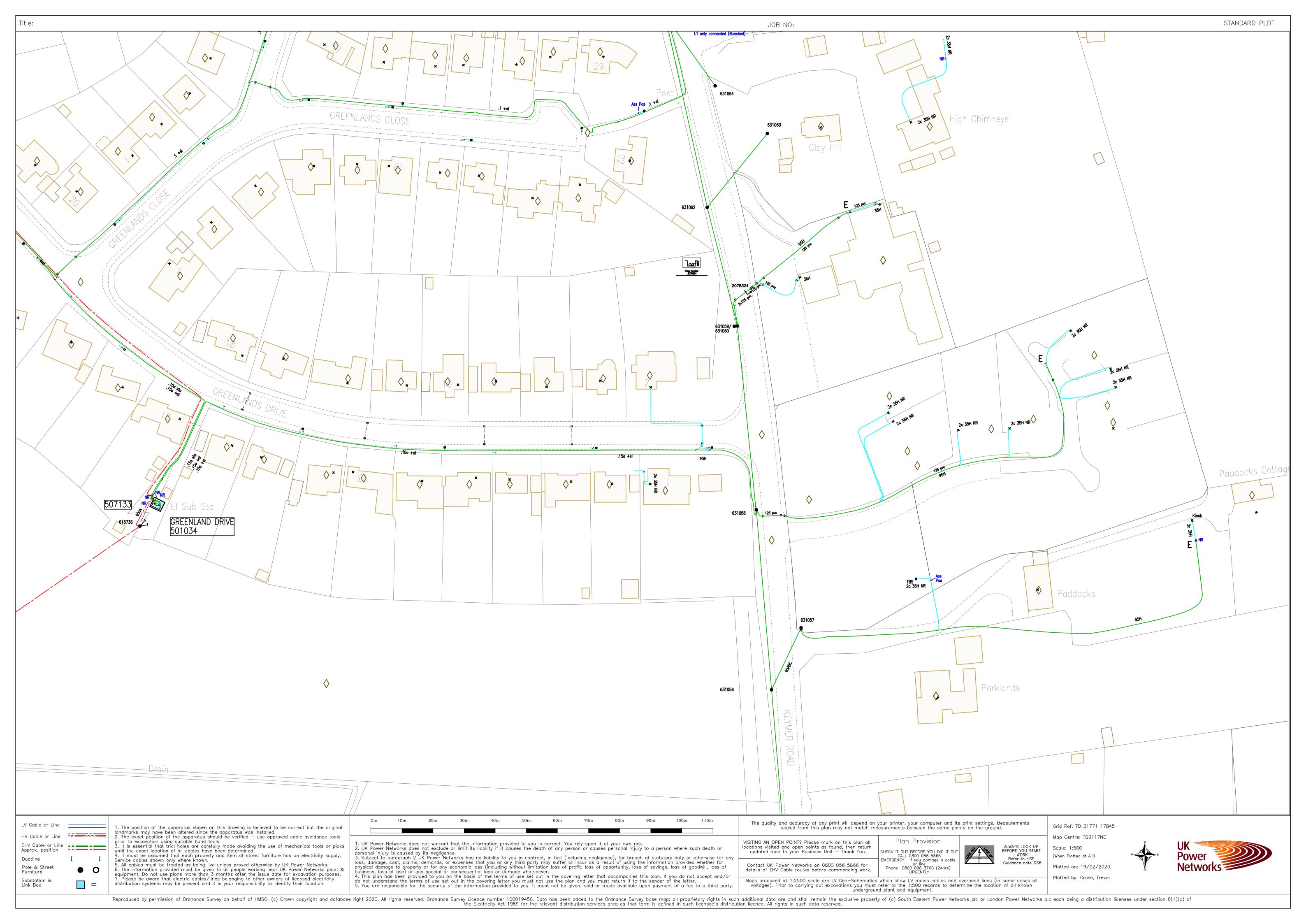


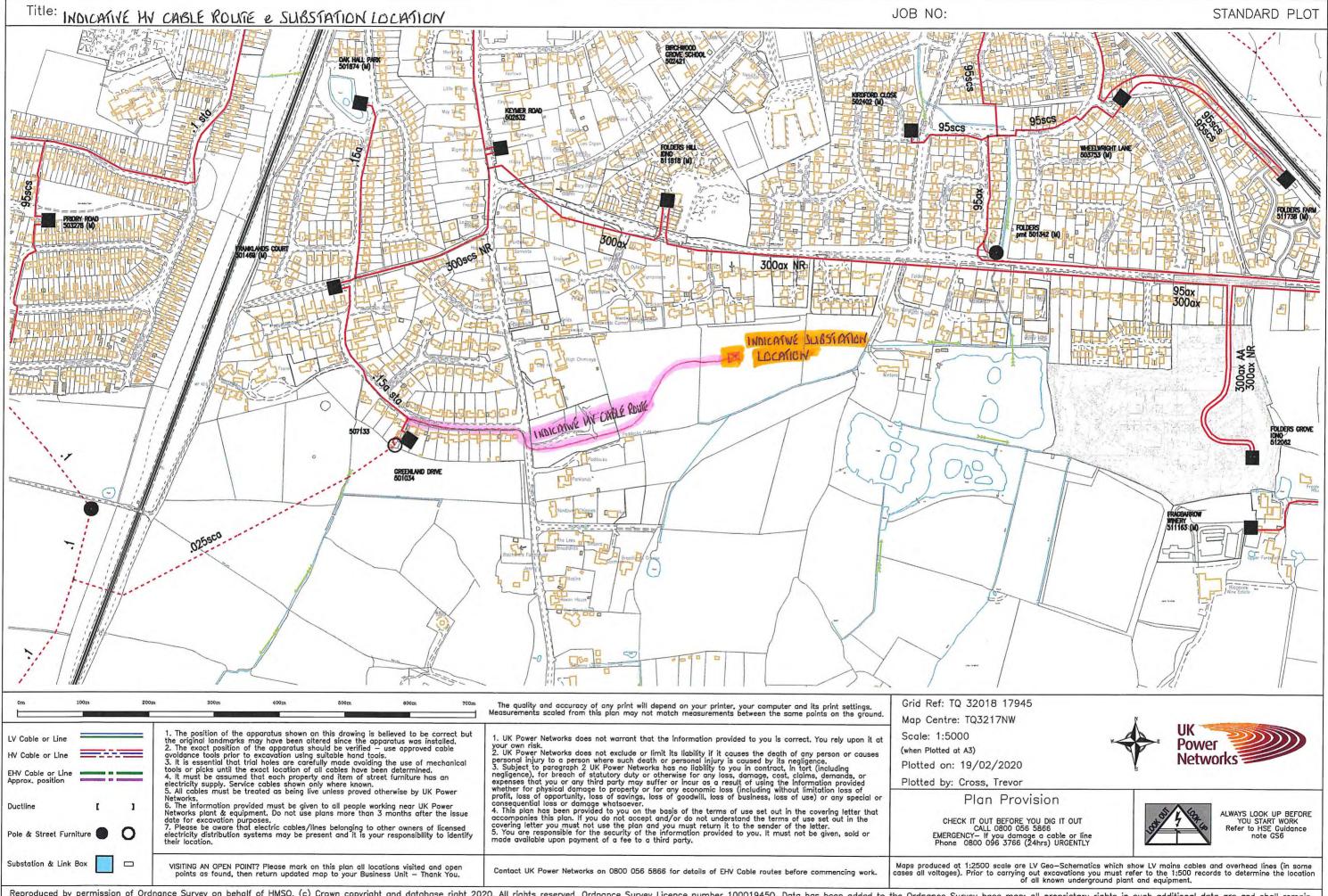
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I will call you in a couple of days to ensure that you have received the Estimate and that it has met all of your requirements, however if you have any questions in the meantime please do not hesitate to contact me.





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Building Network Operators (BNOs) –

Overview, guide and frequently asked questions

December 2016



Contents



This guide includes an explanation of what a Building Network Operator (BNO) is, a series of example scenarios and frequently asked questions.

Glossary of terms

Listed below are terms or abbreviations that are used throughout this guide:

MOP - Meter Operator

RCD – Residual Current Device

ENA – Energy Network Association

EHV - Extra High Voltage (above 11,000V)

EDNO – License Exempt Distribution Network Operator

MOCOPA – Meter Operators Code of Practise Agreement

CNE – Combined Neutral Earth

IDNO - Independent Distribution Network Operator

DNO – Distribution Network Operator

LPN - London Power Networks PLC

EPN – Eastern Power Networks PLC

SPN - South Eastern Power Networks PLC

R&Ls - Rising and Lateral main

SAP - Senior Authorised Person

DG – Distributed Generation

SWA – Steel Wire Armoured cables

Tri rated Tails - Trirated Cable is a high temperature, flame retardant electrical cable designed for use in panel building. Trirated Cable is often referred to more generally as Panel Wire, T.R.S (*tri-rated* singles) or BS 6231 Cable.

TT – Terre Terre, an approved method of earthing that requires RCD protection for a customer earth, operating independently of the distribution network protective multiple earth

Red head fuse – a single phase fuse carrier with a solid link (encased in red plastic) in place of a fuse

HV – High Voltage (above 1000V and below 20,000V, typically 6,600V and 11,000V)

ESQCR – the Electricity Safety, Quality and Continuity Regulations 2002

LV - Low voltage (0-1000V, typically 230V single phase and 400V three phase)

MICC / Pyro - Mineral Insulated Copper Clad cables, also known as Pyro cables

MPAN – Metering Point Administration Number

SNE – Separate Neutral Earth

DUoS – Distribution Use of System

VIR – Vulcanised Insulated / India Rubber cables



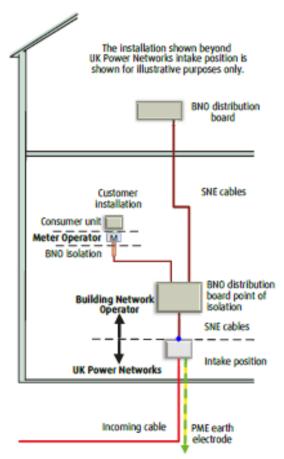






What is a Building Network Operator?





SNE - Separate neutral earth

PME - Protective multiple earthing

· - UK Power Networks termination point

A Building Network Operator (BNO) is defined in ENA ER G87 as:

'The organisation that owns or operates the electricity distribution network within a multiple occupancy building, between the intake position and customers installations. The BNO may be the DNO, another licensed distributor or a third party exempt from an electricity distribution license (e.g. a facilities management company)'.

Therefore a BNO may be a building owner, landlord, developer or similar function in control of a building infrastructure at that given moment. A BNO may appoint a third party to act as the network operator on their behalf.

An IDNO or an EDNO, as defined in the Electricity (class exemption from the requirement for a licence) Order 2001, may undertake a BNO function.

A BNO does not require a distribution license if the BNO fulfils the criteria of an EDNO, i.e. the distribution of less than 2.5MW or generation less than 10MW; amongst other

criteria (refer to the Electricity Order 2001).



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What is a Multi-Occupied Building?



A multi-occupied building is defined in ENA ER G87 as:

'Any single building that has been sub-divided into more than one premise, for example flats (including conversions) or factories that have been broken up into smaller industrial units. It includes communal areas (if any)'.

Building networks are governed by BS 7671; therefore UK Power Networks shall not give approval for building network designs as UK Power Networks is not an enforcing or advisory body for BS 7671. In addition there are additional regulatory requirements for multi occupied buildings e.g fire regulations, Health and Safety at work Act 1974 etc.

Where questions of the adequacy of the customers installation need to be resolved the electrical contractor should seek advice from the trade body providing their accreditation e.g. Electrical Contractors Association (ECA), National Inspection Council for Electrical Installation Contracting (NICEIC) etc.

Prior to energisation the customer shall provide a request for energisation in writing together with a statement of testing/compliance with BS 7671 (and any other applicable legislation) for the building network, signed by an appropriately authorised person.

The BNO shall consider at the design stage the on-going safety of both the occupants and meter readers from hazards, as listed in ENA ER G87, in accordance with the CDM Regulations 2015.

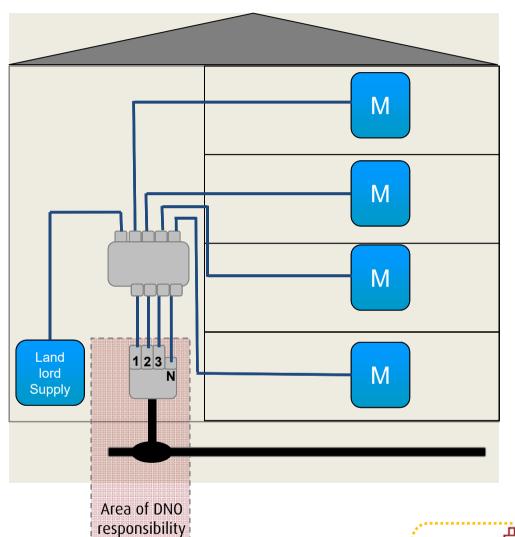
Note: The BNO is responsible for the quality of the customer supply at the customer supply terminals in accordance with the Electricity Safety, Quality and Continuity Regulations 2002 UK Power Networks shall provide all reasonable assistance





Scenario 1 – Conversion of single use to multiple use





When the conversion takes place the customer will often use the supply for a temporary builders supply; please note that an RCD will be required, connected to the customers earth stake for the TBS: it will provide an TT supply.

The building (house or industrial unit) is then converted into flats.

The BNO Network will need to be designed and installed by the Customers accredited electrician, in accordance with BS 7671.

UK Power Networks or an ICP may upgrade the service if required.



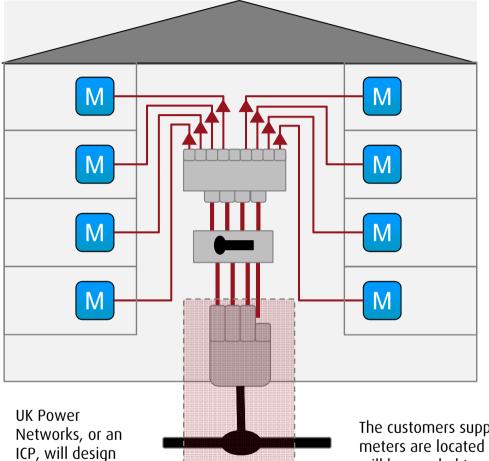


(the point of

demarcation)

Scenario 2 – New Build





Area of DNO

responsibility

(the point of

demarcation)

The BNO installs the BNO network to BS 7671 standards

A distribution board may need to be installed by the customer. This piece of equipment divides up the main supply and provides isolation for each dwelling.

There are a number of manufacturers of distribution boards. Distribution boards may be referred to as:

- Ryefield Unit
- · Bemco Unit or
- Any Multi-way Termination

UK Power Networks strongly recommends that a stand alone isolator is installed (by the customer). This will generally be sized to meet the load and will allow the supply to be energised before the internal wiring is completed. However, if the space is not available the distribution board can act as a point of isolation.

The customers supplier installs meters via the chosen meter operator. If the meters are located in each flat, then a point of isolation adjacent to the meter will be needed to allow the meter to be fitted. This will often take the form of a solid withdrawable link called a "Red head".



floor

and install the

to the ground

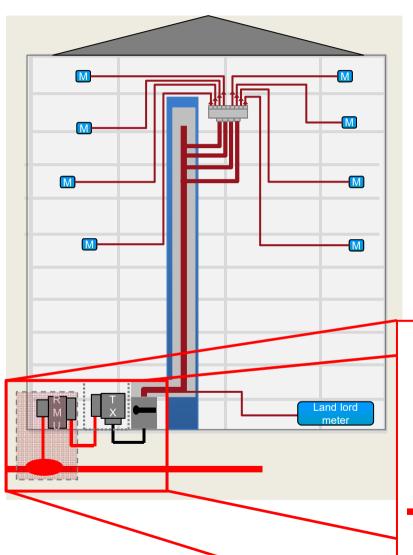
new connection

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Scenario 3 – 11kV supply to high rise (New or conversion)



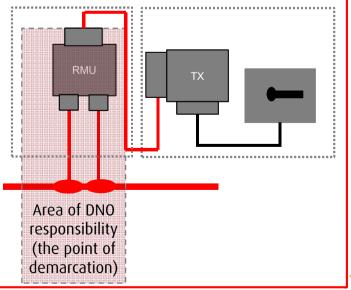


The BNO installs the BNO LV network to BS 7671 standards.

This is essentially the same as an LV BNO Network configuration with the difference being at the intake position. UK Power Networks or an ICP will install a metered ring main unit and the customer will install the 11kV cable to the private transformer and all low voltage plant and cable beyond this.

A second customer owned switch room will need to house the private transformer. The customer will not have access to the UK Power Networks substation.

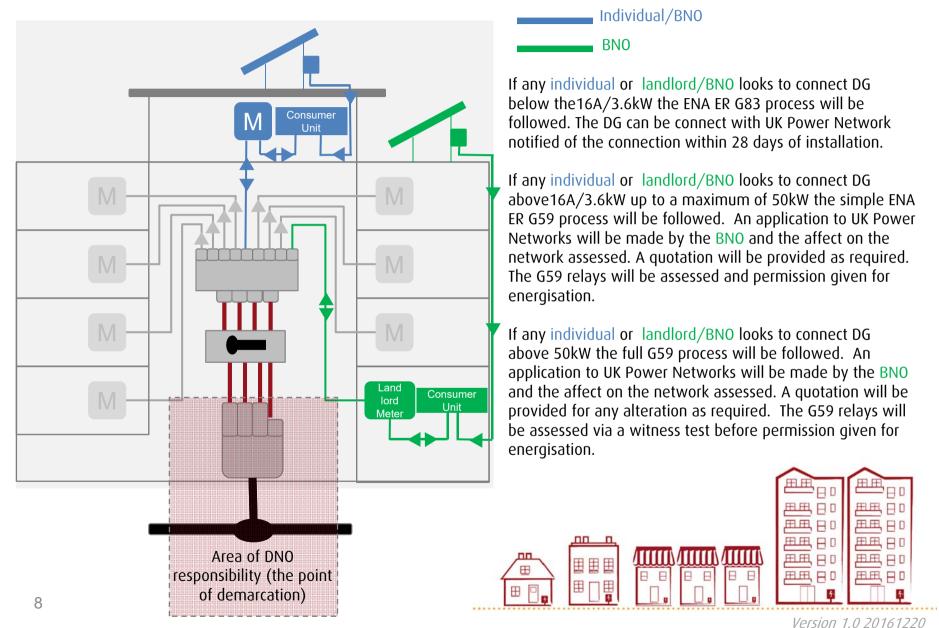
An accredited independent distribution network operator will be required to construct, and / or manage (e.g SAP Services), customer owned 11kV installations.





Scenario 4 - New Build with Distributed Generation







Q1. Background to change – introduction of BNO process – when and why?

A1. The Electricity Act 1989 allows for electricity companies that meet certain criteria to be except from having a distribution licence, whilst the Electricity (Class Exemptions from the Requirement for a License) Order (2001) provided limits on who can qualify to be a licensed exempt distribution network operator.

The publication of the Electricity and Gas Internal Markets Regulations (2011) provided direct to market supply metering for embedded tenants of a building.

In response to this legislative framework the Energy Networks Association produced the Engineering Recommendation G87 (LV Supplies to Multi-Occupied Buildings) national standard to provide guidance for multi-occupied buildings, which defined a Building Network Operator as:

The organisation that owns or operates the electricity distribution network within a multiple occupancy building, between the intake position and customers installations.

The BNO may be the DNO, another licensed distributor or a third party exempt from an electricity distribution licence (e.g. a facilities management company).

Therefore the building network operator could be the building owner or a body appointed by the building owner to run the electricity services within a building. This clarified the national position and has since become a category B condition of the Distribution Licence for each Licensed Distribution Network Operator (all DNOs and IDNOs).



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Q2. What do the legistlive changes mean?

A2. The current national position provides a common framework for the responsibilities and liabilities of each party involved in a multi-occupied building;

- > allowing direct access to metering for customers,
- > providing clarity on how the Electricity Safety, Quality and Continuity Regulations 2002 (ESQCR) apply to all network operators between distribution and supply points; and
- > provides a basis for common working across the UK

Primarily, the framework describes two states of building network operator: 1) a licensed network operator and 2) a licence exempt network operator.

A building network operator is either one or the other, the framework provides no exceptions. The licensed or unlicensed party owning a building network may claim DUOS (Distribution Use of System) payments for the operation of the building network.

Likewise the owning party must maintain the building in accordance with the ESQCRs, though the design regulations governing each party differ; a licensed party is bound by the national network operator's approvals for cable selection, network design etc. whilst the unlicensed party within a building is only constrained by the IET wiring regulations BS 7671 (currently 17th edition A3) and so can provide a cost effective solution more appropriate to the building.

Q3. What is the high level process for a Building Network Operator and who is responsible from what point of the equipment?

A3. There are three parties involved in any BNO arrangement with each owner being responsible for their network equipment:

- 1. DNO (in this case UK Power Networks) For a new building the DNO responsibility ends at the customer side of the intake be it a cut out supply, the feeder way on an LV board or the cable end box of an HV or EHV supply
- 2. BNO Owns everything beyond the DNO point of demarcation EXCEPT any meters embedded within the BNO network or attached to DNO equipment, these act as islands of ownership within each network. The BNO has the additional responsibility of the building and the infrastructure of the building.
- 3. Electricity Supplier Owns the meters embedded within the BNO Network



Q4. Who installs what, and where?

A4. Depending upon the voltage of the building supply, the DNO requires the provision of either a switch room or a substation within which all DNO supply equipment is installed by the DNO (See EDS 08-0123 for LV examples). The switch room is provided by the building owner.

Suppliers and their meter operator representatives will require metering positions at agreed locations within the building. Metering equipment will be installed by the suppliers appointed meter operators. The suppliers appointed meter operator will verify the sanctity and security of the building network before energising supplies within the building.

Customer cables may be terminated onto DNO equipment by either the supplier appointed meter operator or by the DNO themselves, depending on the voltage of the supply.

All customer cables are installed by the building network owner (either the building owner themselves or a suitable electrical contractor), noting that meter operators require a point of isolation immediately adjoining the metering positions and that all wiring must be in accordance with BS 7671.

Q5. Why can't tri rated tails be accepted?

A5. UK Power Networks do not accept these tails as they cannot be terminated successfully to our equipment. However, tri rated tails may be acceptable to your supplier within your building network, and you should consult them to check.

Q6. Does the MOP need to see a BS 7671 test certificate before connecting an isolator adjacent to our main supply?

A6. The majority of MOPs would like to have access to the BS 7671 test Certificate upon request and / or it should be available for reference with the installation.

Q7. How do I earn money from a BNO network, and how is this calculated??

A7. Contact your supplier who will talk to you about the extent of your network and your load that will enable them to calculate your income via the DUoS process.



Q8. How does a customer know if they are supplied from a BNO network?

A8. The customer may not know. In the event of a fault they should contact their DNO using the common '105' call number. The DNO will act accordingly and where ownership is unclear UK Power Networks will attend site to investigate. In the event that UK Power Networks is not the BNO then this is likely to be the building landlord, owner or a maintenance company acting on their behalf.

Q9. Who are BNOs, is there somewhere we can see a list of them?

A9. A BNO can be a building owner, operator or an organisation appointed by the building owner or operator to act on their behalf. There is not one reference point or 'list' of BNO's.

Q10. How can the identity of the BNO, of a particular installation, be determined and what is there to prevent a third party subsequently changing / adding to the BNO installation?

A10. There are a number of methods that are used to confirm the DNO/BNO Boundary

- > EDS 08-0118 requires the labelling of all UK Power Networks owned equipment with an indication of the boundary of ownership.
- All multi-occupied buildings designed since 1st June 2013 will be a building network owned and operated by the building owner.
- Guidance is available on request for properties designed and built before 1st June 2013.
- Since 1st June 2013 UK Power Networks ownership ends at the outgoing terminals of the supply termination (be that cut out, LV board, HV supply, EHV supply or boundary metering unit at any voltage).
- Third parties may only operate on a BNO network with the express permission of or appointment by the building network operator.
- Other network operators may not trespass upon another network operator's distribution network.

Q11. What do UKPN want from a BNO?

A11. To adhere to the requirements of EDS 08-0118 – Multi-Occupied Building Supplies, available at: http://library.ukpowernetworks.co.uk/library/asset/40b220aa-88ba-462d-8a7d-20a9ba9f8b2I/EDS+08-0118+Multi-Occupied+Building+Supplies.pdf





Q12. Should there be an isolator between the UK Power Networks cut out and the commencement of the BNO installation?

A12. UK Power Networks strongly recommends the use of an isolator between the UK Power Networks intake and the first asset on the BNO network. There is no requirement to install any device as the intake may be used to provide isolation on request for the entire building network but, as this incurs a fee from the Distribution Network Operator for each visit, UK Power Networks considers an isolator to be more cost effective and recommends that an isolator approved under BS 7671, be installed.

Q13. What are the MOCOPA requirements?

A13. The MOCOPA requirements are the Meter Operation Code of Practice Agreement (MOCOPA®). An agreement between Electricity Distribution Businesses and Electricity Meter Operators in Great Britain which defines safety, technical and business interface requirements regarding the provision of meter operation services. Further information can be found here: https://www.mocopa.org.uk/

Q14. What type of isolation point do we need adjacent to the meter?

A14. Typically, these can be Red head fuses or double pole isolators; guidance can be sought from your supplier.

Q15. How is the isolation point sealed?

A15. The MOCOPA approved sealing method will be applied by the supplier appointed MOP, at energisation.

Q16. Can a BNO pull the main fuse to isolate the building network for maintenance etc?

A16. No, the DNO will still be required to pull the main fuse as required.

Q17. Will UK Power Networks periodically inspect BNO installations to ensure no unmetered supplies are in place?

A17. No, If UK Power Networks do not own the building network, then liability for the prevention of illegal or unauthorised supplies remains with the BNO.





Q18. How do I protect my installation from theft of electricity?

A18. The DNO we would not police the building network nor would your appointed supplier. Checks would be made at energisation. The building owner has responsibility to remain vigilant for the property they are managing and in the event any suspicion is raised should seek appropriate advice from an approved electrician, and notify their supplier.

Q19. How are meters checked on a BNO Network?

A19. Meters within the BNO network will be checked and readings taken as with any other installed meter

Q20. Do UK Power Networks see uniformity across all DNOs for the BNO process?

A20. Broadly yes. All UK DNOs are required to adhere to ENA ER G87 as part of their license condition; therefore, the requirements for earthing and cable selection are consistent. Each DNO does vary on the issue of ownership, broadly speaking most UK DNOs do not own BNO networks since the introduction of ENA ER G87. One DNO actively operates as a BNO under their IDNO service operation.

Q21. When will/how will UK Power Networks update the rest of the industry and affected parties about this process?

A21. Actions so far include;

- > UK Power Networks engaging in wider community discussions since the first publication of EDS 08-0118 in August 2012.
- > Articles published in both the NICEIC and ECA journals and presentations to ECA and IET working groups across the three license areas.
- > Communication on the process and EDS 08-0118 is ongoing.

Q22. Who is responsible for signing off the installation ready for energisation?

A22. The Supplier appointed MOP performs the final energisation at the end user point of metering and confirms the security of the BNO network. UK Power Networks performs the energisation of the intake position only and does not necessarily energise the wider building network, for example; if a point of isolation is installed (be that a switch fuse, isolator or even a distribution board), the intake position can be energised far in advance of the building completion. If supplies are direct from the intake with no isolation internally then energisation of the intake will have to wait until all supplies are secured and will likely be performed by either a MOP or in conjunction with a MOP.



Q23. Licensed and unlicensed BNOs. Which standards should the installation follow?

A23. All network operators are governed by the ESQCR. Licensed building network operators are governed by national DNO requirements and BS 7671 whilst unlicensed building network operators will be governed by BS 7671 only, within a building environment.

Q24. Who ultimately set out the guidance and if there is a query between different providers, who oversees this?

A24. This was established at a national level due to legislation. The regulator, OFGEM, oversee and monitor all network operator issues.

Q25. What is the timescale to design, sign off, approve and install works associated with a BNO installation?

A25. This remains in line with the existing guaranteed standards of performance appropriate to the voltage level, maximum power requirement and number of exit points requested by the customer.

Q26. Who are the points of contact for the UK Power Networks related work associated with a BNO Installation. What standard forms are used and are there specific procedures to follow?

A26. This remains unchanged from the existing UK Power Networks project gateway and small services connection processes.

Q27. What happens in an emergency? / What happens if there is a loss of supply?

A27. See question Q8. A network operator may not trespass upon a network owned by another network operator. In addition, UK Power Networks are not a qualified and authorised BS 7671 body, therefore UK Power Networks will respond to faults upon the UK Power Networks distribution network but cannot and will not respond to faults on a building network owned by a third party. UK Power Networks will always in a manner to ensure the safety of customers and its staff. If UK Power Networks find an unsafe situation they will act accordingly to eliminate the danger.

Q28. If UK Power Networks attend and it's found to be a fault on the BNO network, do BNO's have a timescale to restore supplies?

A28. No, there is no national agreement for supply restoration by BNOs.



Q29. What are the variations in delivery with the BNO process between a new installation and an internal network alteration / connect additional load?

A29. This will vary on a case by case basis. For example; work within a building network that requires no additional load, and does not require a UK Power Networks site visit to provide intake position isolation, will occur without any UK Power Networks oversight or intervention. If new MPANs are required these may be requested from UK Power Networks, or other IDNO, without an associated new connection project. Work requiring additional load will be assessed by Project Gateway and Connections and a design produced in accordance with EDS 08-0118.

Q30. Where do I find the information about the requirements for the meter positions on a BNO network?

A30. BS 7671 IET Wiring regulations 17th Edition (BS 7671-2008 incorporating amendment no.3-2015)

Q31. Can I have more than one supply to the building?

Q31. Yes, refer to EDS 08-0143 for restrictions

Q32. What changes are there to ASC (agreed supply capacity)?

A32. The maximum power requirement is agreed with the customer in the connections agreement and is not associated with a specific MPAN for supplies above 100A single phase. This is not changed for building networks.

Q33. Are there any changes in the MPAN generation process for BNO created supply points?

A33. No, MPANs may be requested from UK Power Networks for BNO supplies, where the BNO is unlicensed.

Q34. If the BNO is licensed, are they responsible for the MPAN?

A34. Yes



Equipment found in a BNO Installation



Fuse

Installed at the intake position by **UK Power** Networks or by the BNO in a distribution board. fuses are aoverned by BS 88 and BS 7671.

Rus-bar riser

Solid copper bars installed in trunking running up the riser. Often used on tall blocks where cables cannot easily be installed due to weight. Owned and maintained by the BNO. These need to be sealed/locked by the BNO to prevent illegal abstraction



'red head' links

Distribution board

Isolator

When meters are located in each flat a point of isolation is required so the meter can be fitted. These can take the form of a solid withdraw-able link called a 'Red head' or other devices, refer to BS 7671 for quidance

Installed by the customer for properties with more than four supplied. This splits the main supply and provides a withdraw-able fuse for

each dwelling, these are sized according to

Sized to meet the load. Allows supplies to be

board can act as a point of isolation.

energised before internal wiring is completed.

If space is limited the fuses from the distribution



Steel Wired Armoured (SWA)

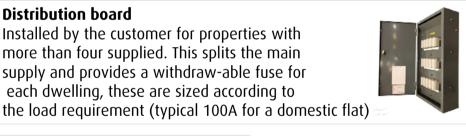
Installed from the distribution board to each property to provide a separate neutral earth supply to a flat.

Switch fuse

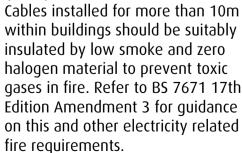
When meters are remote (more than 2m from fuse board) a switch fuse is required to provide a secondary protection and this is installed by the customer.

Low Smoke and Zero Halogen

within buildings should be suitably insulated by low smoke and zero halogen material to prevent toxic gases in fire. Refer to BS 7671 17th Edition Amendment 3 for guidance on this and other electricity related



(LSOH)





References



Installers, Developers, Independent Connection Providers (ICPs) and Independent Distribution Network Operators (IDNOs) may obtain a copy of ER G87 from the Energy Networks Association.

Energy Networks Association Engineering Recommendations (ENA ER) G83, G59 and G87 are available from the Energy Networks Association at: http://www.ena-eng.org/ENA-Docs/

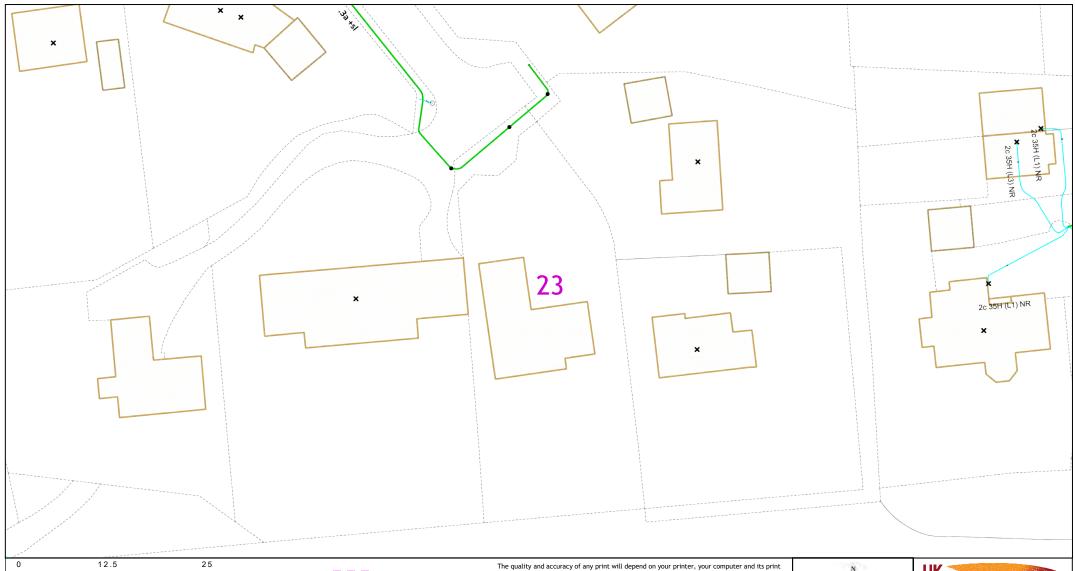
The relationship between a BNO and recovery of use of system payments is addressed in the Electricity and Gas (Internal Markets) Regulations 2011, specifically in Schedule 2ZA S.5(1) which can be found at: http://www.legislation.gov.uk/uksi/2011/2704/schedule/2/made

Guidance for the Electricity Order 2001 can be found at: https://www.gov.uk/electricity-licence-exemptions

The design rules are set out in the below documents that can be found on the UK Power networks G81 Webpages: http://library.ukpowernetworks.co.uk/library/en/q81/

- > EDS 08-0118 Multi-occupied buildings
- > EDS 08-0129 Services up to 100Amps
- > EDS 08-0143 Services over 100Amps





This plan must be used with the attached 'Symbols' document.

metres

Date Requested: 02/12/2019 Job Reference: 17129356 Site Location: 531151 117043 Requested by: Ms Christina Elliott

Your Scheme/Reference:

81665/KA

Scale: 1:500 (When plotted at A4)

1. The position of the apparatus shown on this drawing is believed to be correct but the original landmarks may have been altered since the apparatus was installed.

Dig Sites Area: | _ _ | Line: -

The exact position of the apparatus should be verified - use approved cable avoidance tools prior to excavation using suitable hand tools.

- 3. It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks until the exact location of all the cables have been determined.

 4. It must be assumed that there is a service cable into each property, lamp column and street sign,
- etc.
 5. All cables must be treated as being live unless proved otherwise by UK Power Networks.
 6. The information proved must be given to all people working near UK Power Networks plant and
- 6. The information proved must be given to all people working near Uk Power Networks plant and equipment. Do not use plans more than 3 months after the issue date for excavation purposes.
 7. Please be aware that electric scales/lines belonging to other owners of licensed electricity distributions by systems may be present adil the jour responsibility to identify their location.
- 8. Please be aware the Low Voltage Overhead power lines are not currently displayed for the Eastern Region via this service, if you require records on the location of these please contact our Plan Provision team directly via plans@ukpowernetworks.co.uk.

1. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own

settings. Measurements scaled from this plan may not match measurements between the same points on the ground.

- 2. UK Power Networks does not exclude or limit its liability if it causes the death of any persons or causes personal injury to a person.
- 3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise for any loss, damage, cost, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property of ror any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use or any special or consequential loss or damage whatsoever.
- 4. This plan has been provided to you on the basis of the terms of use set out in the covering letter that accompanies this plan. If you do not accept and/or do not understand the terms of use set out in the covering letter you must not use the plan and must return it to the sender of the letter.
- You are responsible for the security of the information provided to you. It must not be given, sold or made available upon payment of a fee to a third party.
- 6. Please Note: The Overview map does not display UK Power Networks electricity network and should not be used for the location of UK Power Networks assets. For detail of the electricity network please view the relevant page as highlighted in the Overview map.



IF IN DOUBT - ASK! PHONE 0800 056 5866 EMERGENCY - If you damage a cable or line Phone 0800 783 8838 (24hrs) URGENTLY

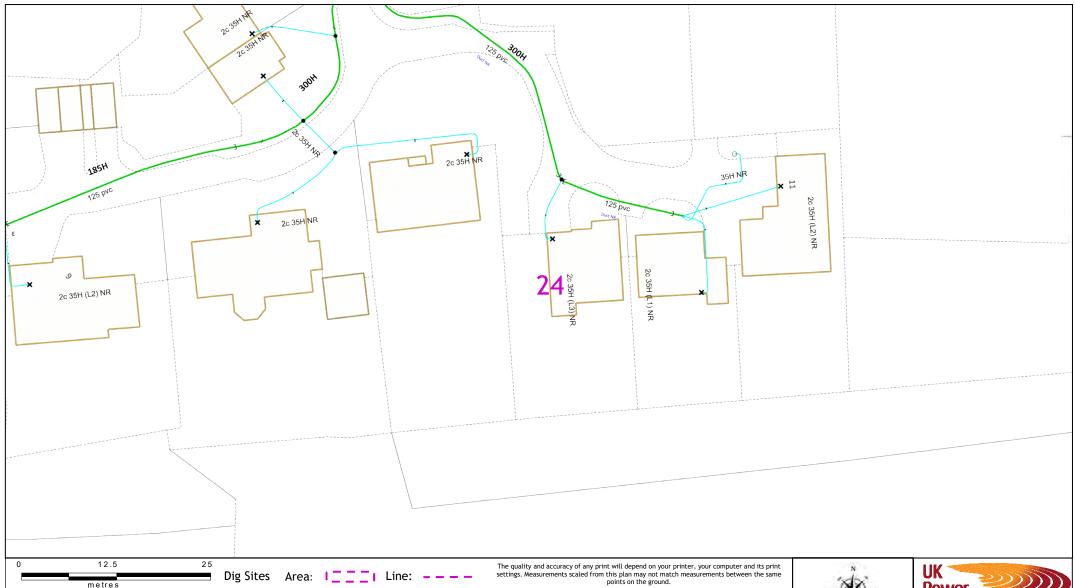




ALWAYS LOOK UP BEFORE YOU START WORK Refer to HSE Guidance note GS6

Maps produced at 1:2500 scale are Geo-Schematics which show LV mains cables and overhead lines (in some cases all voltages). Prior to carrying out excavations you must refer to the 1:500 records to determine the location of all known underground plant and equipment.

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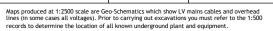
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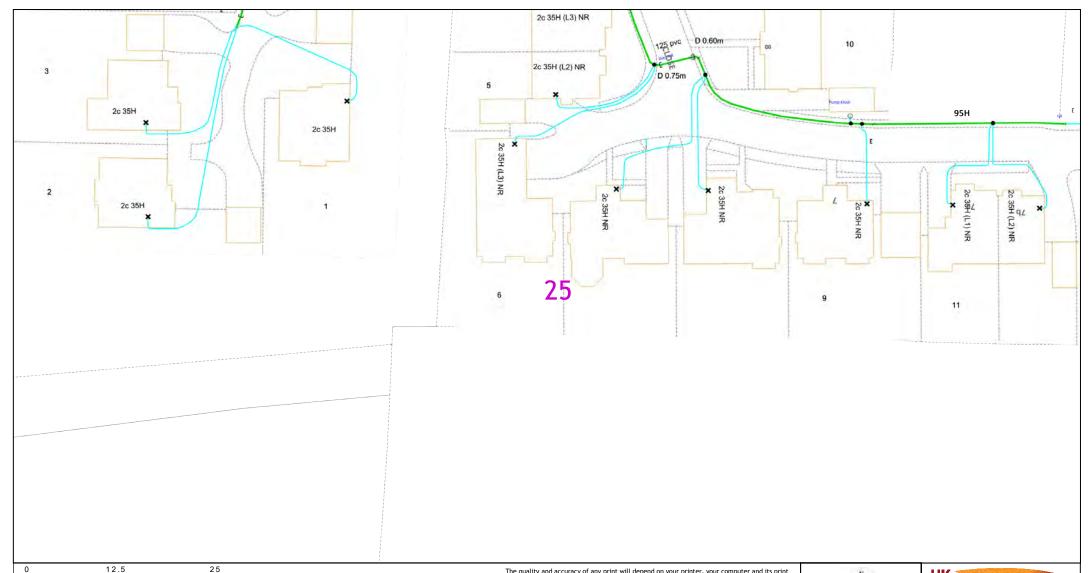


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metres

Date Requested: 02/12/2019 Job Reference: 17129356 Site Location: 531151 117043 Requested by: Ms Christina Elliott

Your Scheme/Reference:

81665/KA

Scale: 1:500 (When plotted at A4)

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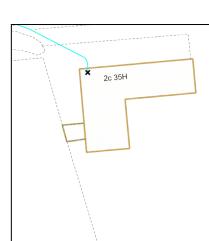


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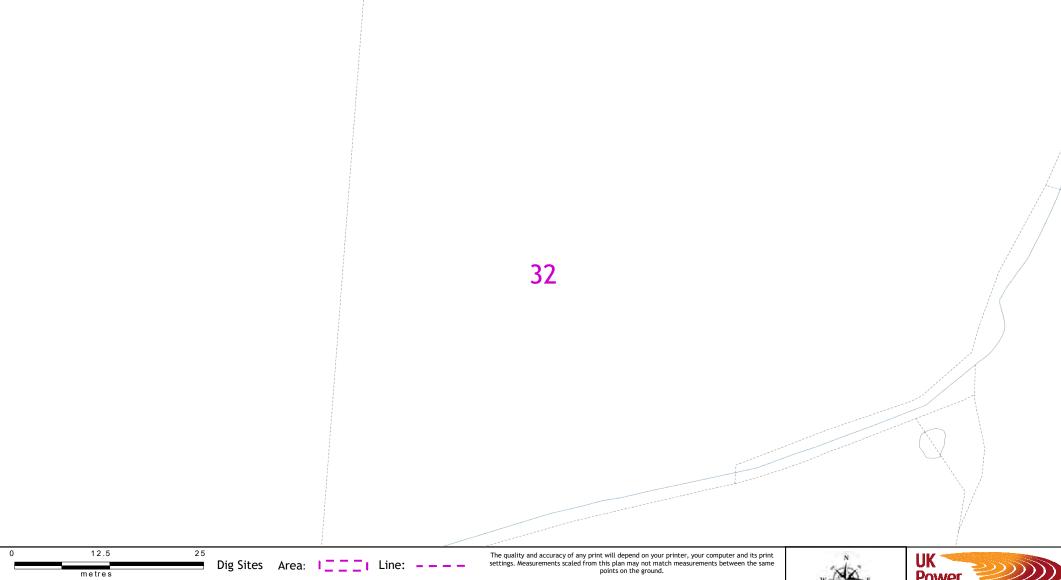


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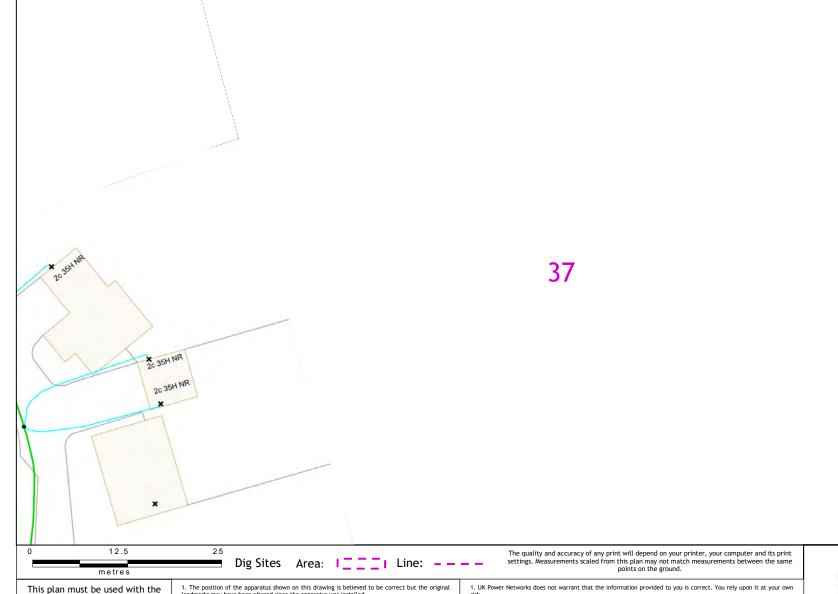




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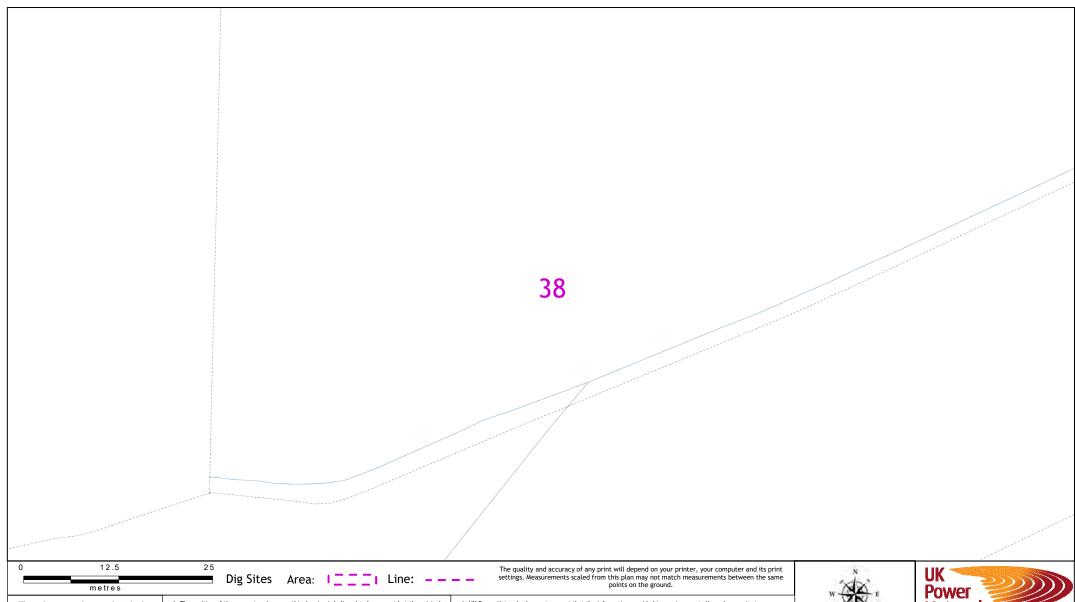
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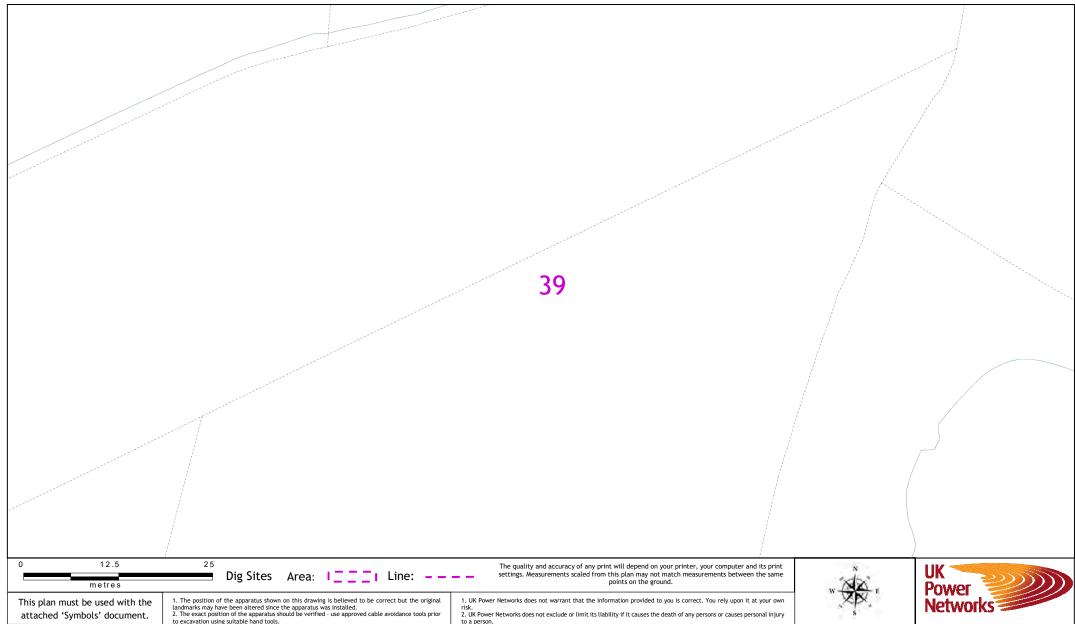
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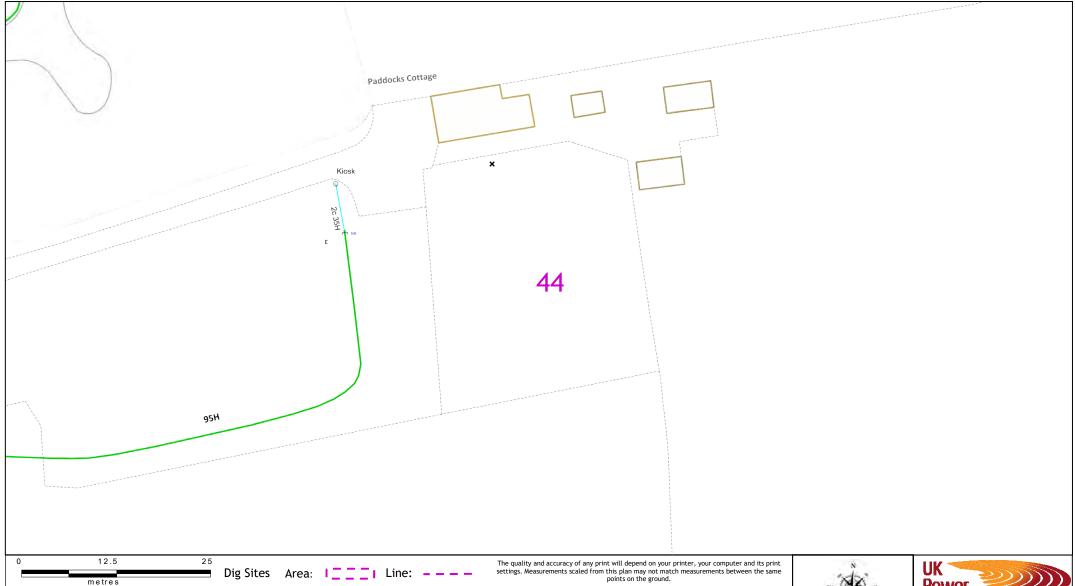
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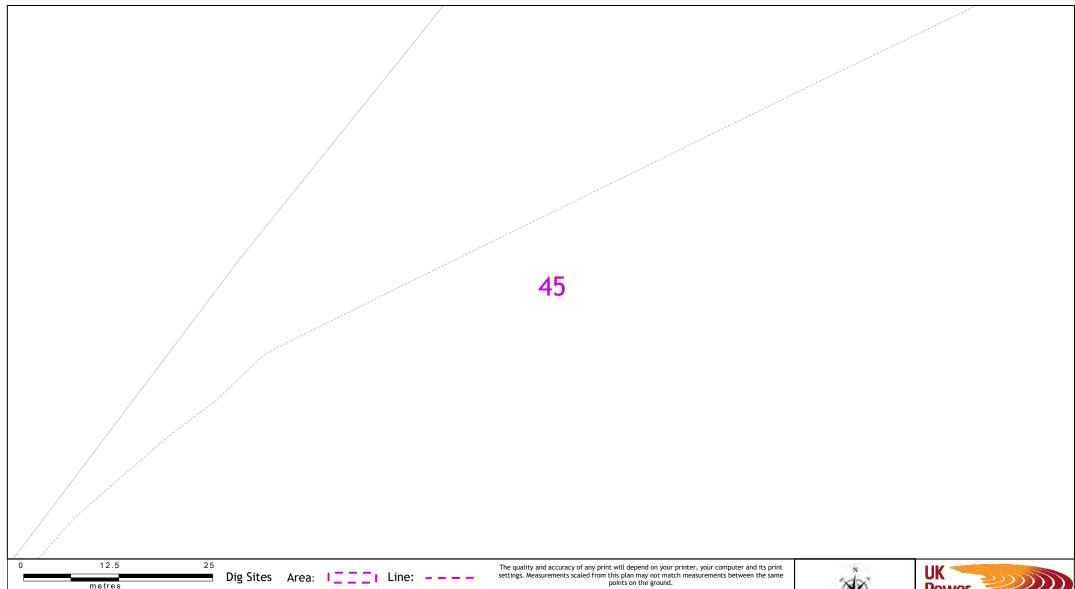
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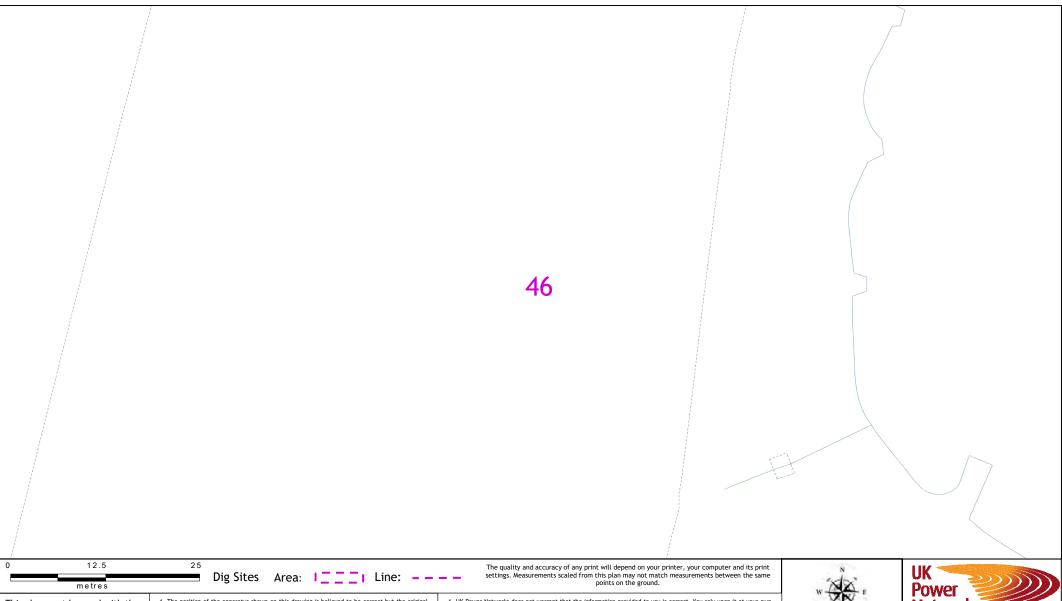




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Date Requested: 02/12/2019 Job Reference: 17129356 Site Location: 531151 117043 Requested by: Ms Christina Elliott

Your Scheme/Reference:

81665/KA

Scale: 1:500 (When plotted at A4)

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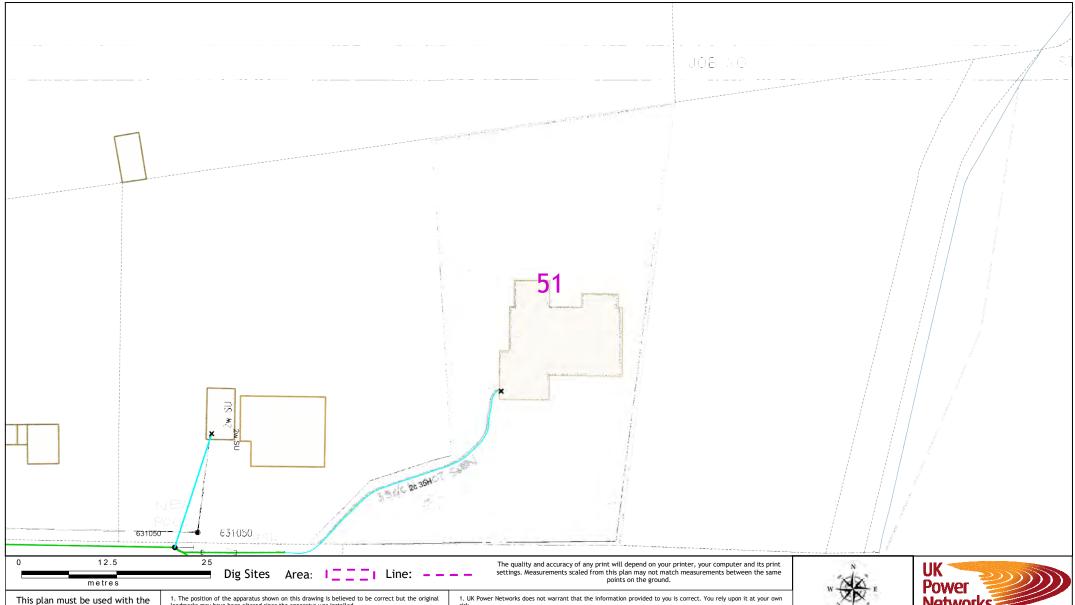
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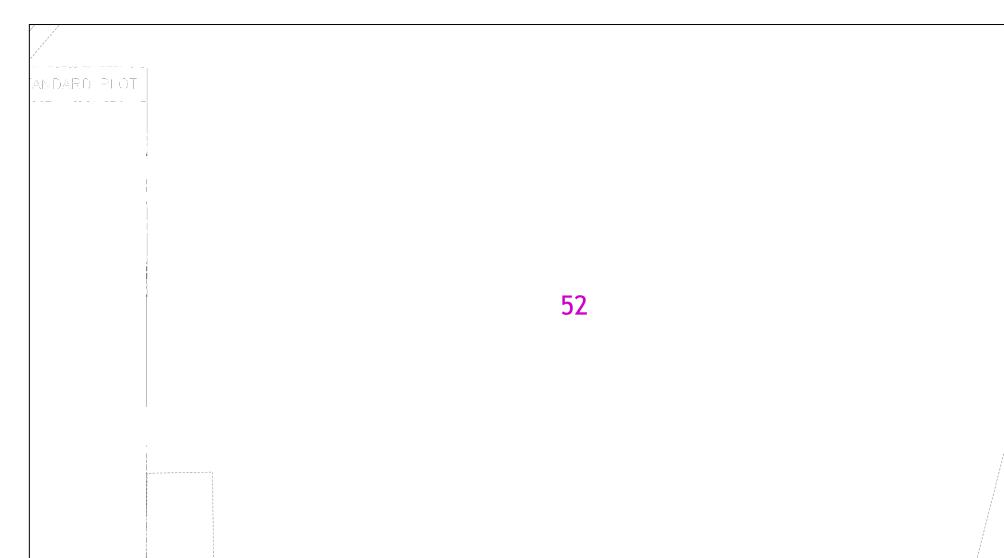


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12.5

metres

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25 12.5 metres

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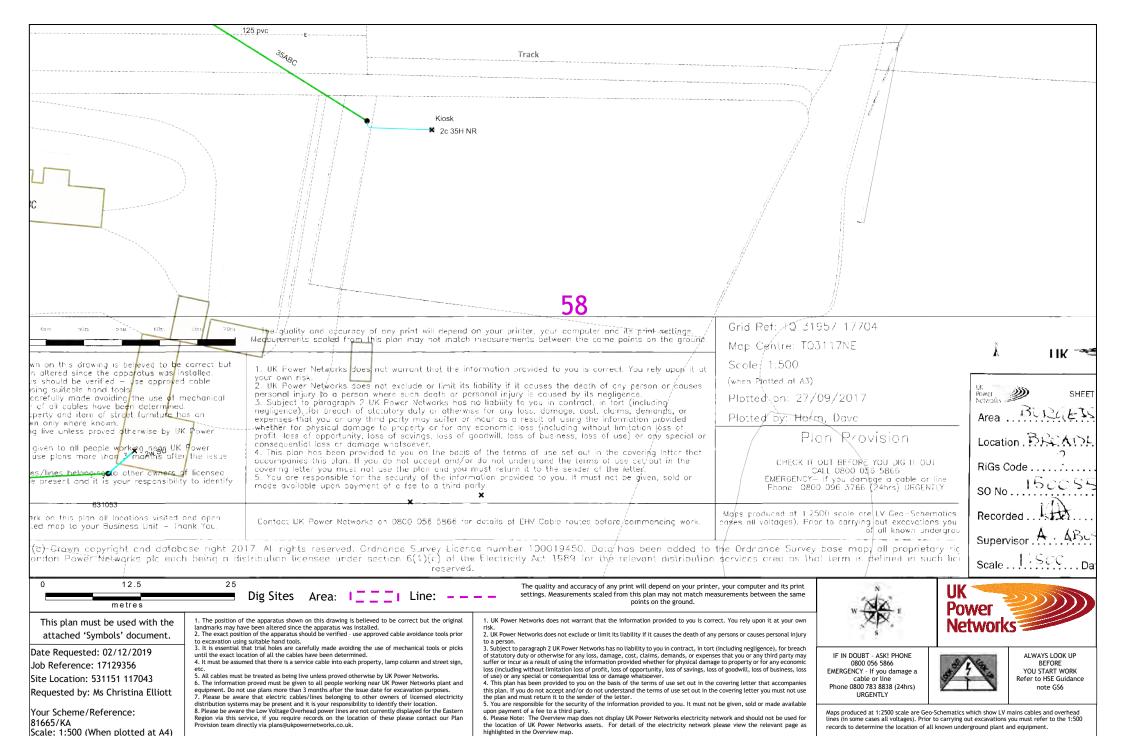


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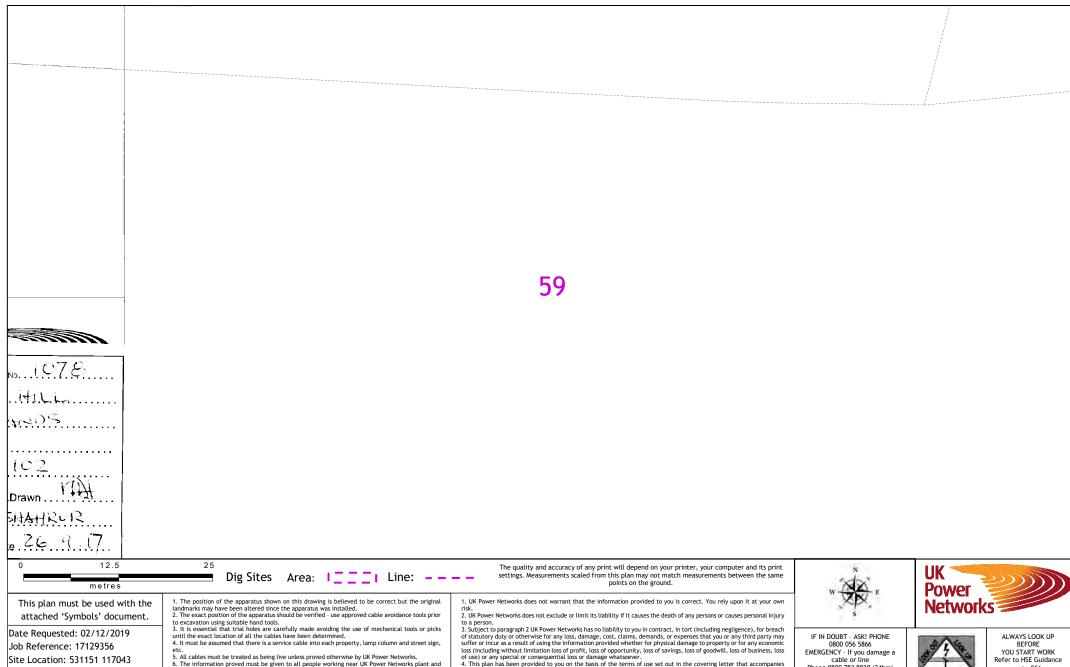


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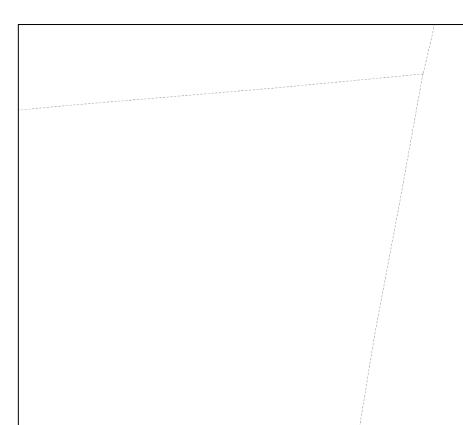
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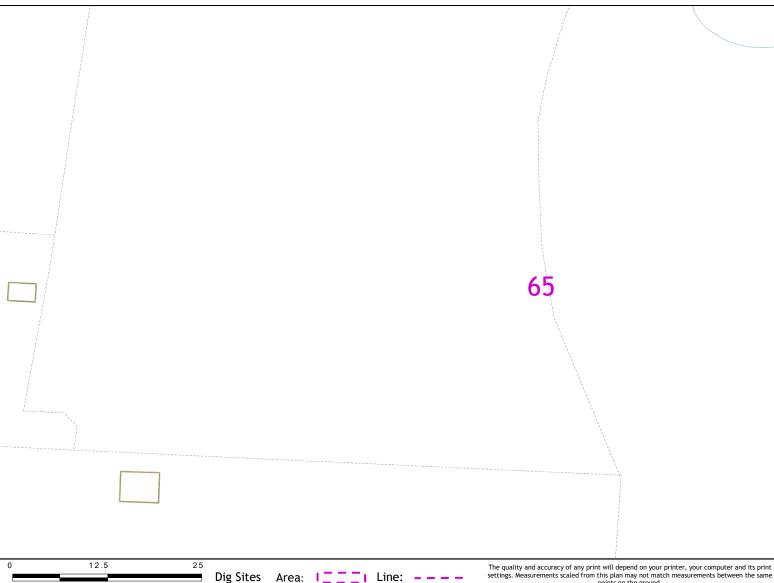
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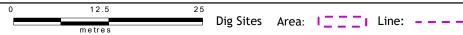




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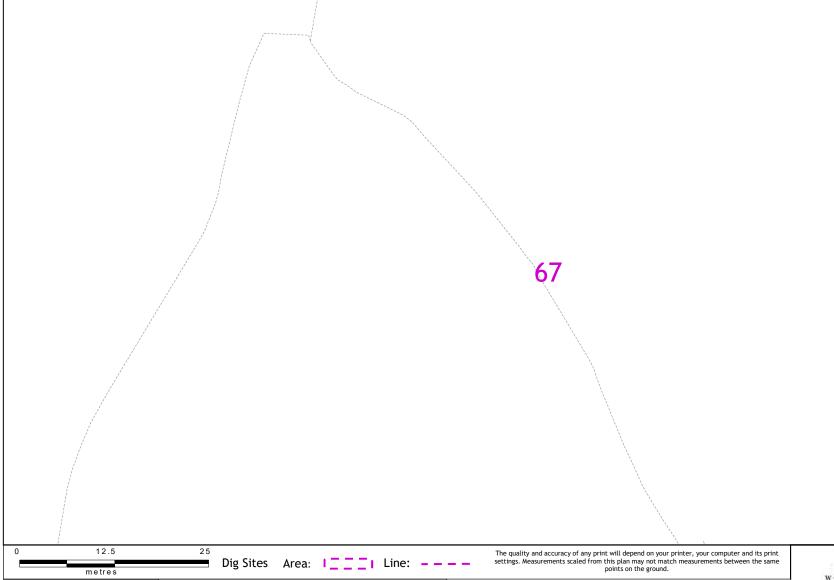


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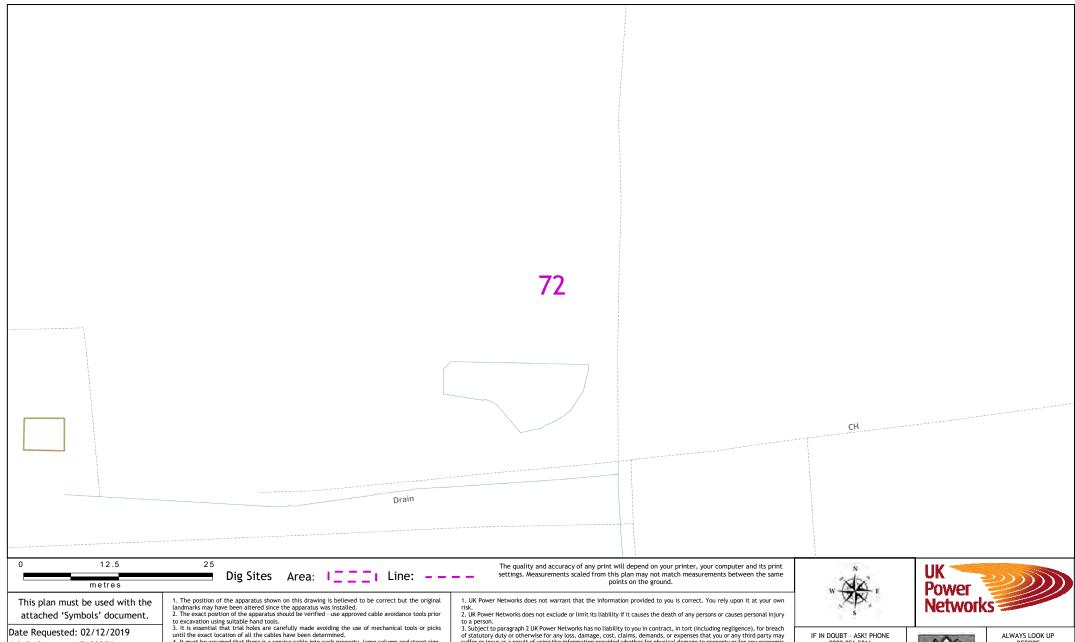




ALWAYS LOOK UP BEFORE YOU START WORK Refer to HSE Guidance note GS6

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Job Reference: 17129356 Site Location: 531151 117043 Requested by: Ms Christina Elliott

Your Scheme/Reference:

81665/KA

Scale: 1:500 (When plotted at A4)

- 4. It must be assumed that there is a service cable into each property, lamp column and street sign, etc.

 5. All cables must be treated as being live unless proved otherwise by UK Power Networks.
- 6. The information proved must be given to all people working near UK Power Networks plant and equipment. Do not use plans more than 3 months after the issue date for excavation purposes.

 7. Please be aware that electric cables/lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.
- 8. Please be aware the Low Voltage Overhead power lines are not currently displayed for the Eastern Region via this service, if you require records on the location of these please contact our Plan Provision team directly via plans@ukpowernetworks.co.uk.
- of statutory duty or otherwise for any loss, damage, cost, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever
- 4. This plan has been provided to you on the basis of the terms of use set out in the covering letter that accompanies this plan. If you do not accept and/or do not understand the terms of use set out in the covering letter you must not use the plan and must return it to the sender of the letter.
- 5. You are responsible for the security of the information provided to you. It must not be given, sold or made available upon payment of a fee to a third party.
 6. Please Note: The Overview map does not display UK Power Networks electricity network and should not be used for
- the location of UK Power Networks assets. For detail of the electricity network please view the relevant page as highlighted in the Overview map.

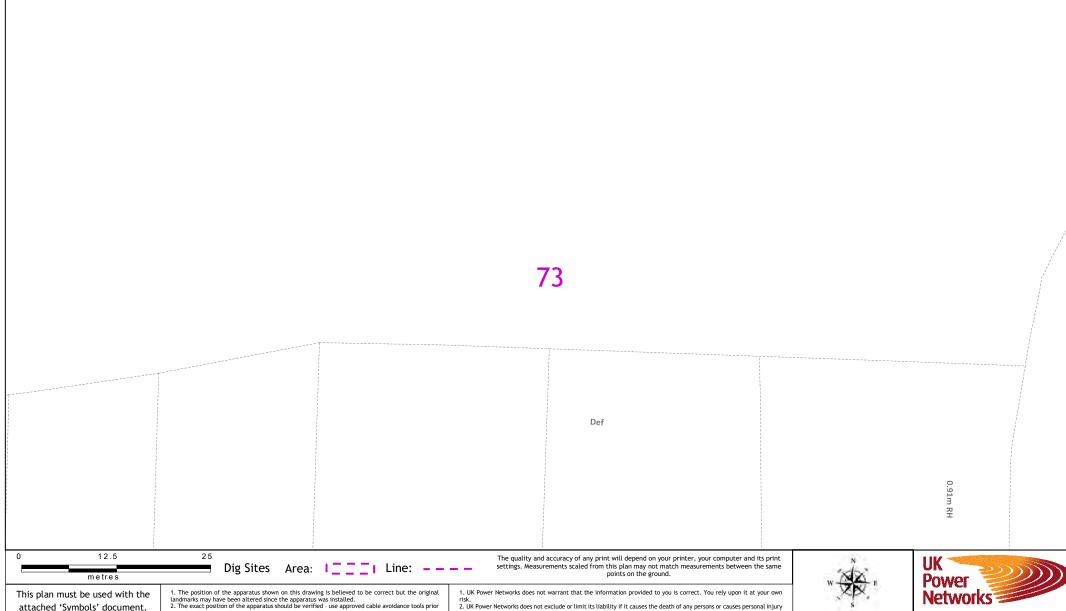
0800 056 5866 EMERGENCY - If you damage a cable or line Phone 0800 783 8838 (24hrs) URGENTLY





BEFORE YOU START WORK Refer to HSE Guidance note GS6

Maps produced at 1:2500 scale are Geo-Schematics which show LV mains cables and overhead lines (in some cases all voltages). Prior to carrying out excavations you must refer to the 1:500 records to determine the location of all known underground plant and equipment.



attached 'Symbols' document.

Date Requested: 02/12/2019 Job Reference: 17129356 Site Location: 531151 117043 Requested by: Ms Christina Elliott

Your Scheme/Reference:

81665/KA

Scale: 1:500 (When plotted at A4)

- to excavation using suitable hand tools.
- 3. It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks until the exact location of all the cables have been determined
- 4. It must be assumed that there is a service cable into each property, lamp column and street sign,
- 5. All cables must be treated as being live unless proved otherwise by UK Power Networks. 6. The information proved must be given to all people working near UK Power Networks plant and equipment. Do not use plans more than 3 months after the issue date for excavation purposes.

 7. Please be aware that electric cables/lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.
- 8. Please be aware the Low Voltage Overhead power lines are not currently displayed for the Eastern Region via this service, if you require records on the location of these please contact our Plan
- to a person.
- 3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise for any loss, damage, cost, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever
- 4. This plan has been provided to you on the basis of the terms of use set out in the covering letter that accompanies this plan. If you do not accept and/or do not understand the terms of use set out in the covering letter you must not use the plan and must return it to the sender of the letter.
- 5. You are responsible for the security of the information provided to you. It must not be given, sold or made available upon payment of a fee to a third party.
- 6. Please Note: The Overview map does not display UK Power Networks electricity network and should not be used for the location of UK Power Networks assets. For detail of the electricity network please view the relevant page as highlighted in the Overview map.

IF IN DOUBT - ASK! PHONE 0800 056 5866 EMERGENCY - If you damage a cable or line Phone 0800 783 8838 (24hrs) URGENTLY





ALWAYS LOOK UP BEFORE YOU START WORK Refer to HSE Guidance note GS6

Maps produced at 1:2500 scale are Geo-Schematics which show LV mains cables and overhead lines (in some cases all voltages). Prior to carrying out excavations you must refer to the 1:500 records to determine the location of all known underground plant and equipment.



74



The position of the apparatus shown on this drawing is believed to be correct but the original

settings. Measurements scaled from this plan may not match measurements between the same points on the ground.

1. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own

The quality and accuracy of any print will depend on your printer, your computer and its print

landmarks may have been altered since the apparatus was installed.

2. The exact position of the apparatus should be verified - use approved cable avoidance tools prior to excavation using suitable hand tools.

- ance tools prior 2. UK Power Networks does not exclude or limit its liability if it causes the death of any persons or causes personal injury to a person.

 1 tools or picks 3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise for any loss, damage, cost, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic
- 3. It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks until the exact location of all the cables have been determined.

 4. It must be assumed that there is a service cable into each property, lamp column and street sign,
- 5. All cables must be treated as being live unless proved otherwise by UK Power Networks.
 6. The information proved must be given to all people working near UK Power Networks plant and equipment. Do not use plans more than 3 months after the issue date for excavation purposes.
 7. Please be aware that electric cables/lines belonging to other owners of licensed electricity
- distribution systems may be present and it is your responsibility to identify their location. 8. Please be aware the Low Vottage Overhead power lines are not currently displayed for the Eastern Region via this service, if you require records on the location of these please contact our Plan Provision Lean directly via planswipkowpernetworks co.u.k.
- loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.

 A. This plan has been provided to you on the basis of the terms of use set out in the covering letter that accompanies this plan. If you do not accept and/or do not understand the terms of use set out in the covering letter you must not use the plan and must return it to the sender of the letter.
- 5. You are responsible for the security of the information provided to you. It must not be given, sold or made available upon payment of a fee to a third party.

6. Please Note: The Overview map does not display UK Power Networks electricity network and should not be used for the location of UK Power Networks assets. For detail of the electricity network please view the relevant page as highlighted in the Overview map.



IF IN DOUBT - ASK! PHONE 0800 056 5866 EMERGENCY - If you damage a cable or line Phone 0800 783 8838 (24hrs) URGENTLY



3 3

ALWAYS LOOK UP BEFORE YOU START WORK Refer to HSE Guidance note GS6

Maps produced at 1:2500 scale are Geo-Schematics which show LV mains cables and overhead lines (in some cases all voltages). Prior to carrying out excavations you must refer to the 1:500 records to determine the location of all known underground plant and equipment.

Scale: 1:500 (When plotted at A4)

This plan must be used with the

attached 'Symbols' document.

Date Requested: 02/12/2019

Site Location: 531151 117043

Requested by: Ms Christina Elliott

Job Reference: 17129356

Your Scheme/Reference:

81665/KA

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APPENDIX C

Gas Records

From: plantenquiryservice@gtc-uk.co.uk

Sent: 02 December 2019 11:05

To: Utility Solutions GDC Requests

Subject: GTC Plant Enquiry - Ref- 1188470

Attachments: 1188470.png; GU-DPR-IG-0022 Safe working in the vicinity of utility networks.pdf

Follow Up Flag: Follow up

Due By: 03 December 2019 00:00

Flag Status: Flagged

Warning: GTC Apparatus Exists in This Area

Our Plant Enquiry Service Ref: 1188470

Your Enquiry Ref: 81665/KA

Dear Chrissy,

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

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

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

N9002017

Gas

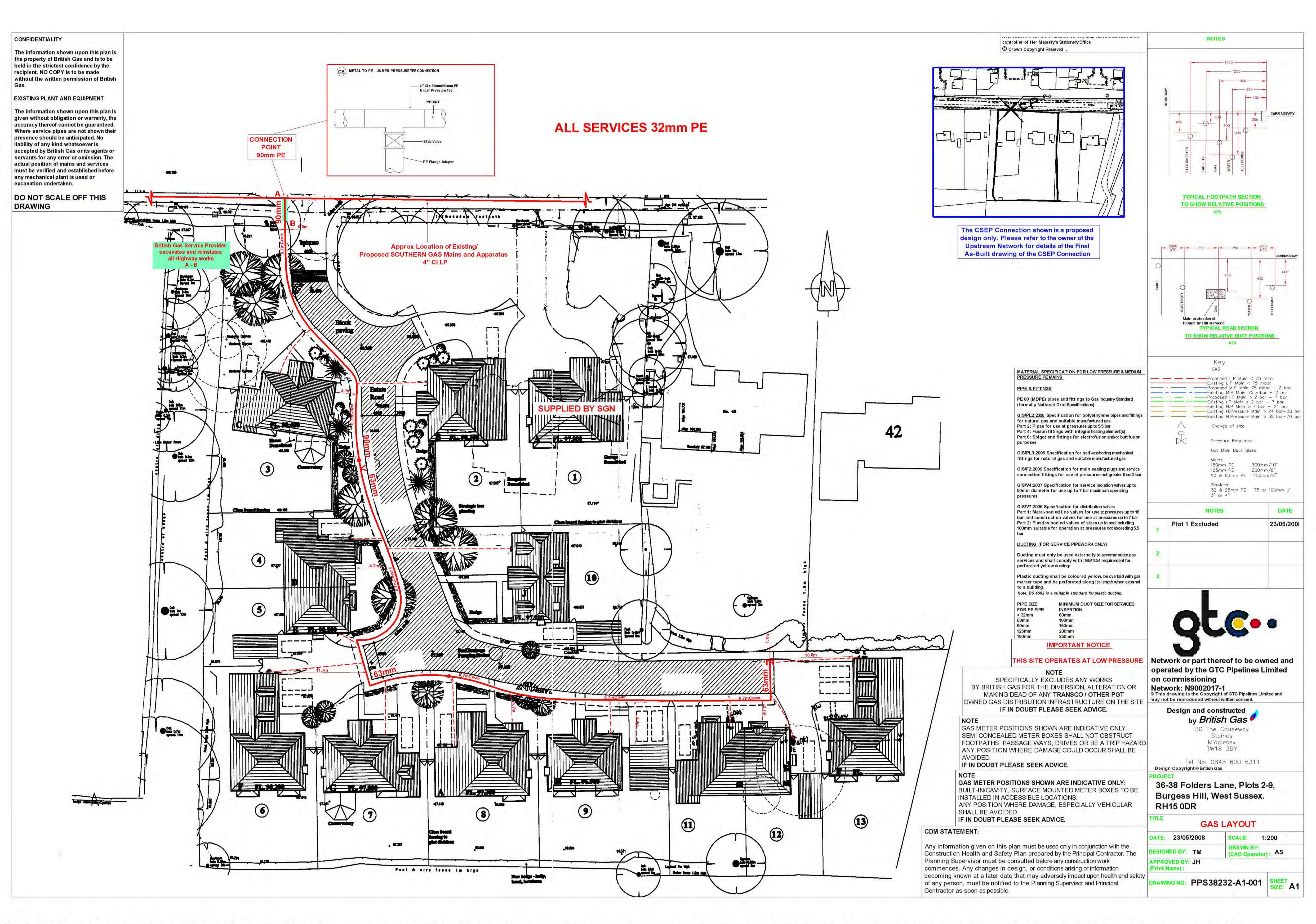
N9002017-1.png

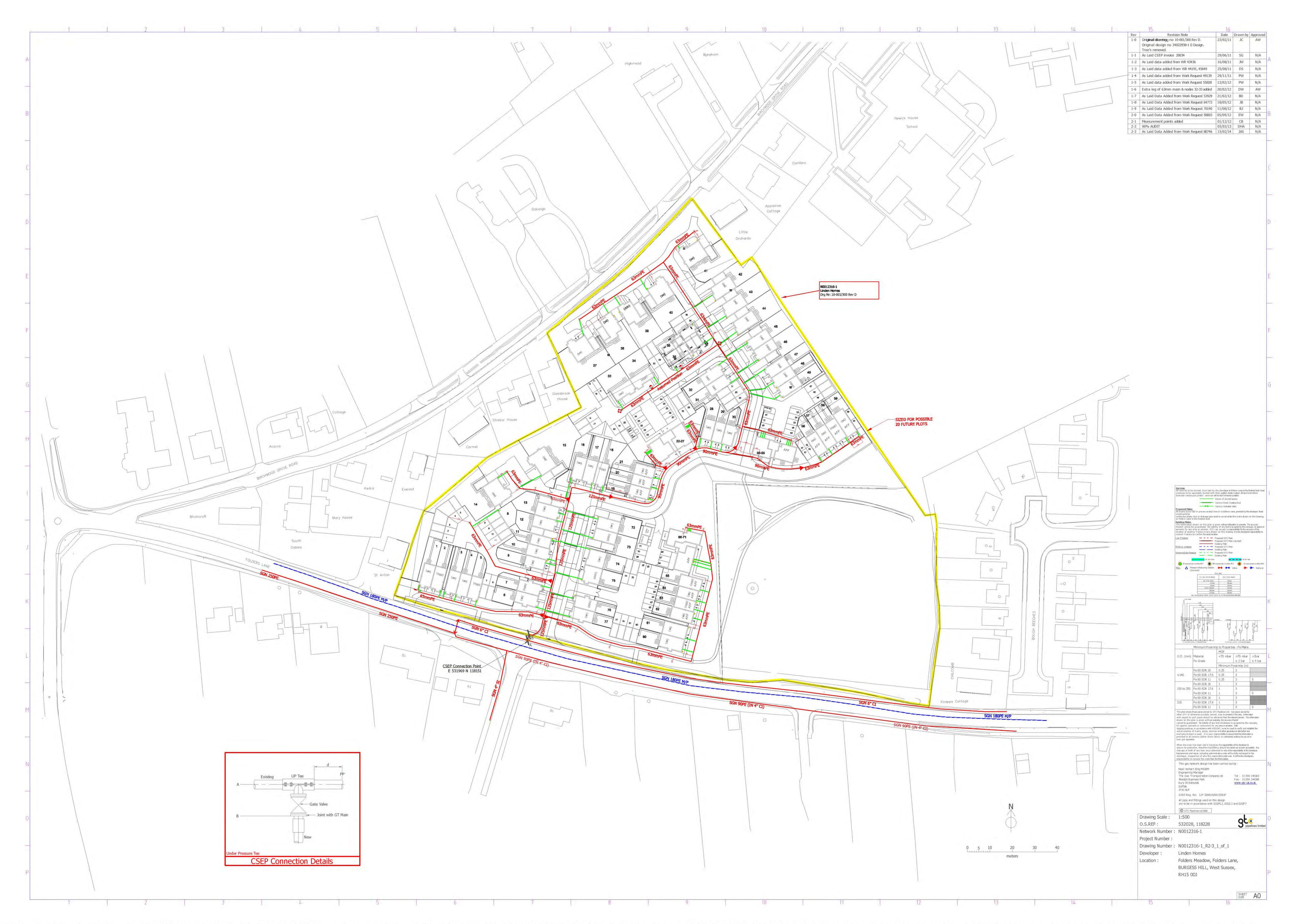
N0012316

Electric

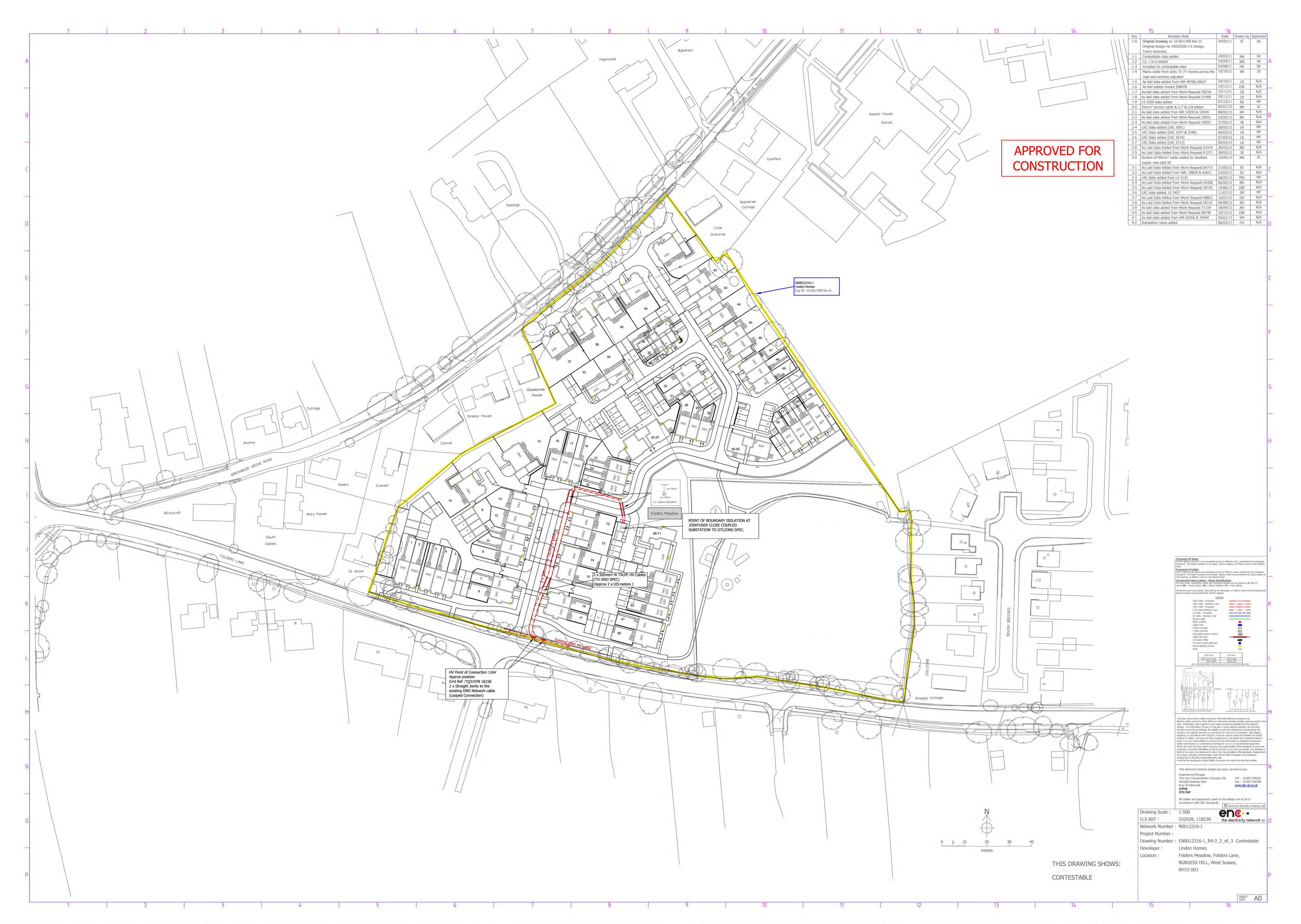
- EN0012316-1 1 of 3.png
- EN0012316-1_2_of_3 (Contestable).png
- EN0012316-1_3_of_3 LRC.png



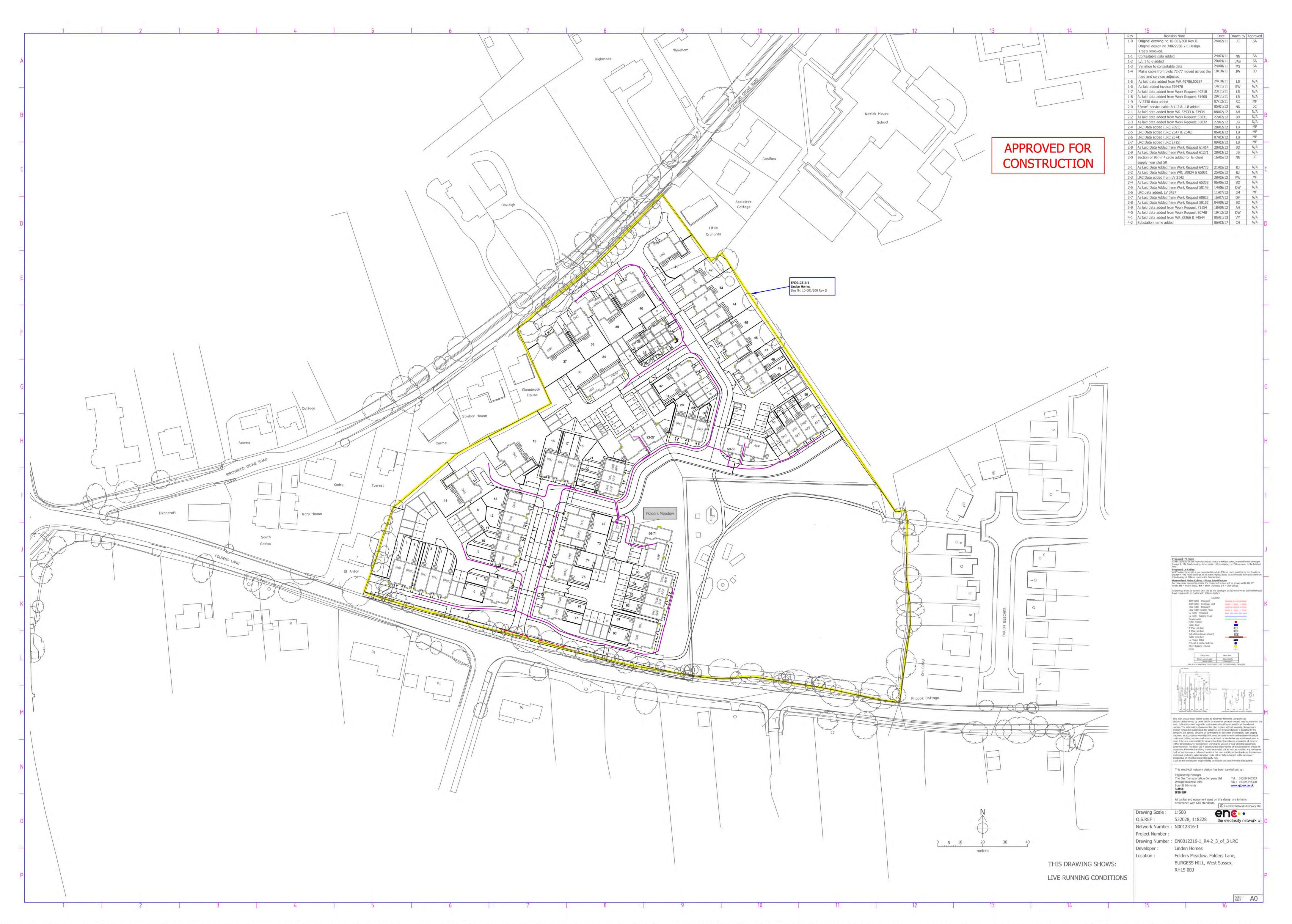




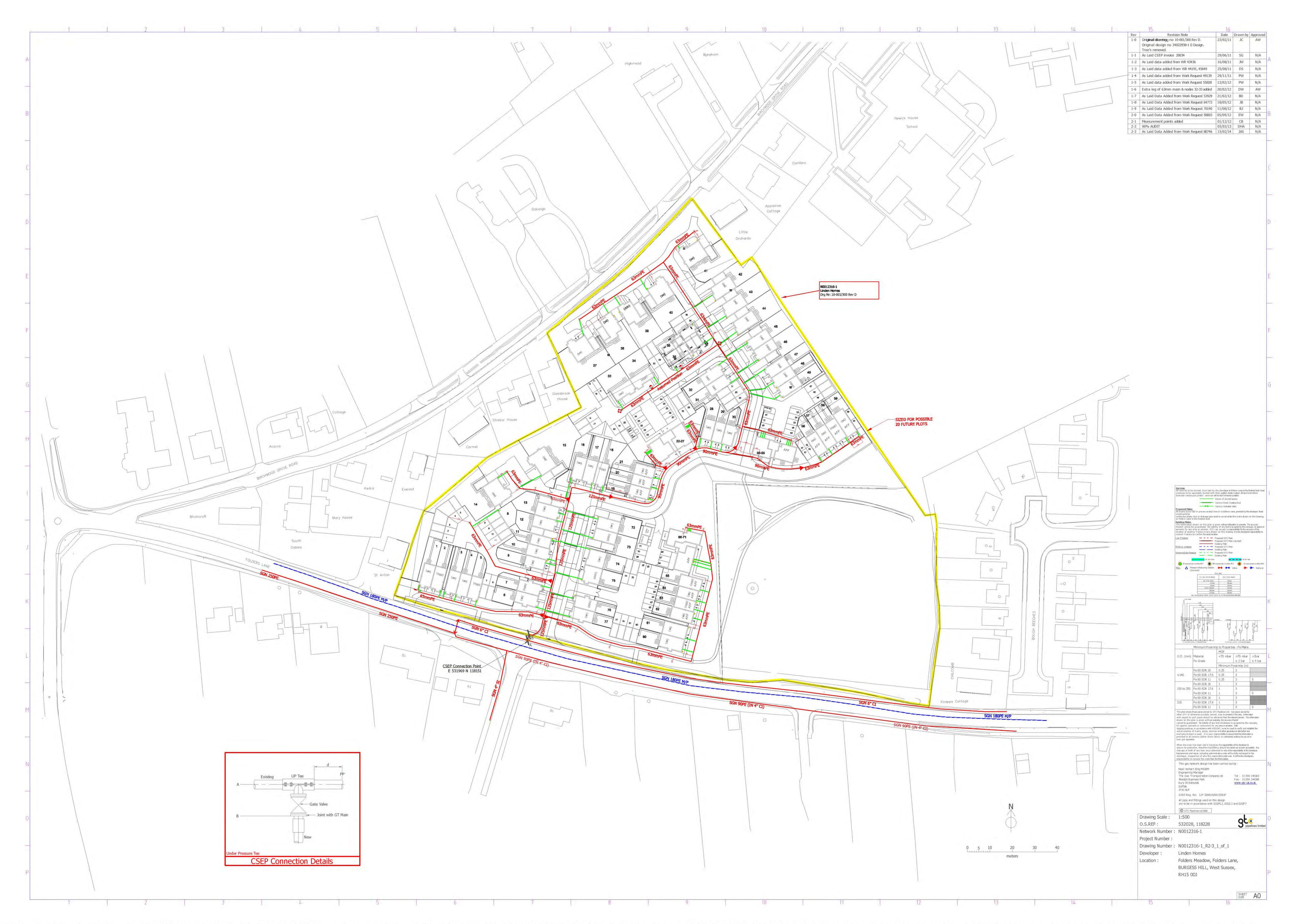
GTC Plant Enquiry. Our Ref 1188470, Your Ref 81665/KA generated for AtkinsStatutory. Enquiries@atkinsglobal.com at 02/12/2019 05:34:48. This drawing is reproduced from our records archive at the time of enquiry.



GTC Plant Enquiry. Our Ref 1188470, Your Ref 81665/KA generated for AtkinsStatutory. Enquiries@atkinsglobal.com at 02/12/2019 05:34:53. This drawing is reproduced from our records archive at the time of enquiry.



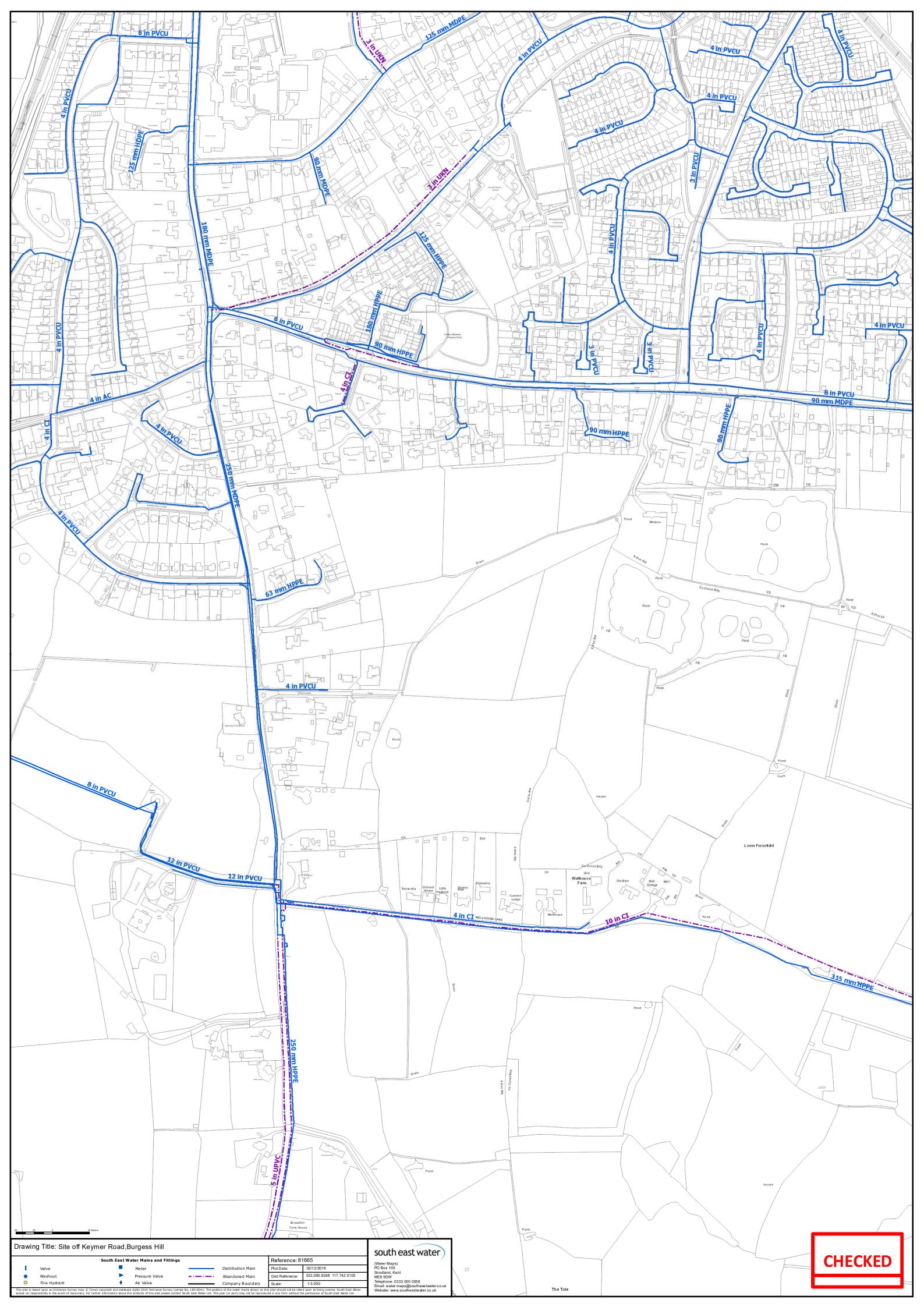
GTC Plant Enquiry. Our Ref 1188470, Your Ref 81665/KA generated for AtkinsStatutory. Enquiries@atkinsglobal.com at 02/12/2019 05:34:55. This drawing is reproduced from our records archive at the time of enquiry.



GTC Plant Enquiry. Our Ref 1188470, Your Ref 81665/KA generated for AtkinsStatutory. Enquiries@atkinsglobal.com at 02/12/2019 05:34:48. This drawing is reproduced from our records archive at the time of enquiry.

APPENDIX D

Potable Water Records





Our Ref: 17129356 Your Ref: 81665/KA

Monday, 02 December 2019

Christina Elliott 500 Park Avenue Aztec West Almondsbury Bristol BS32 4RZ



Dear Christina Elliott

Thank you for your enquiry dated Monday, 02 December 2019

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

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

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

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

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

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

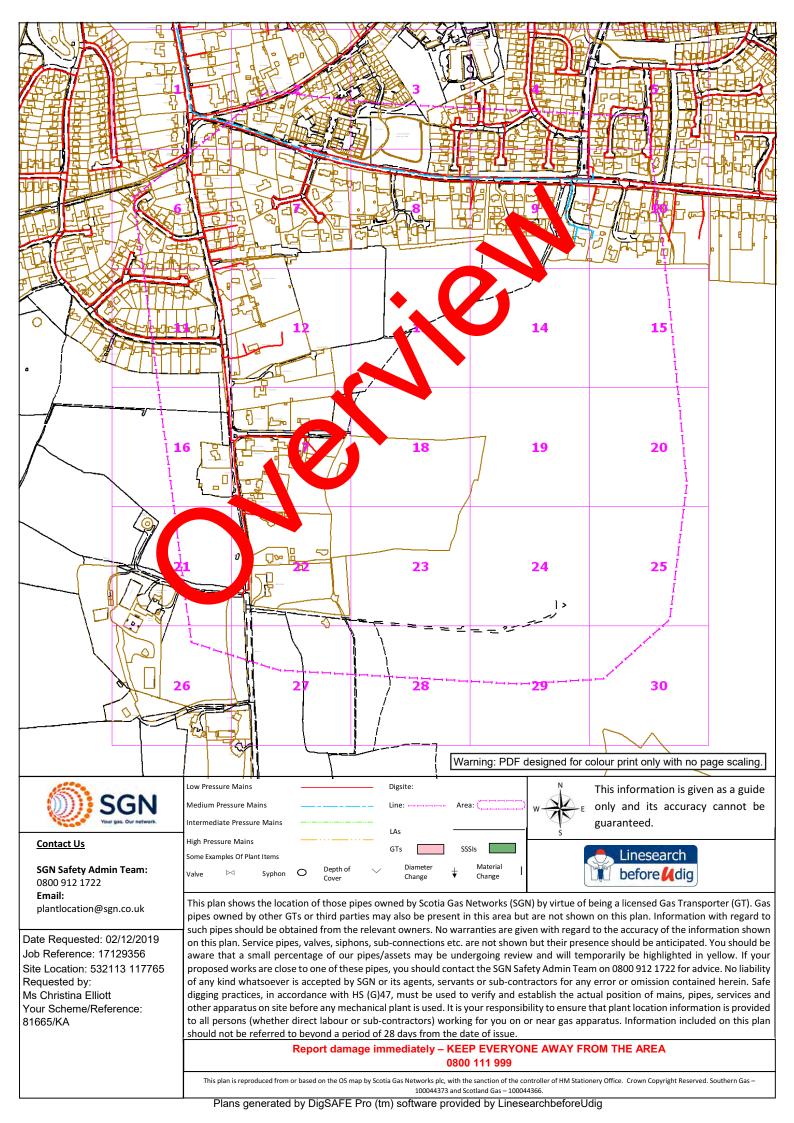
It must be stressed that both direct and consequential damage to gas plant can be dangerous for your employees and the general public and repairs to any such damage will incur a charge to you or the organisation carrying out work on your behalf. Your works should be carried out in such a manner that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

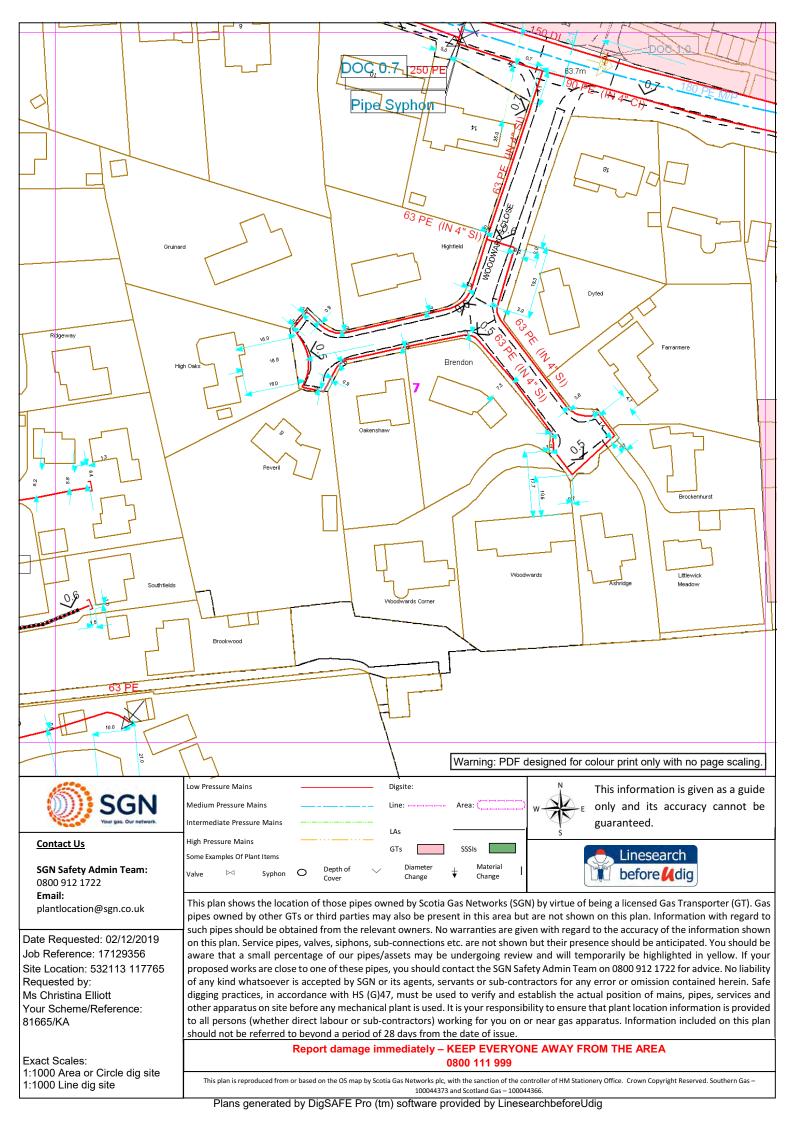
If you require any further information please do not hesitate to contact us.

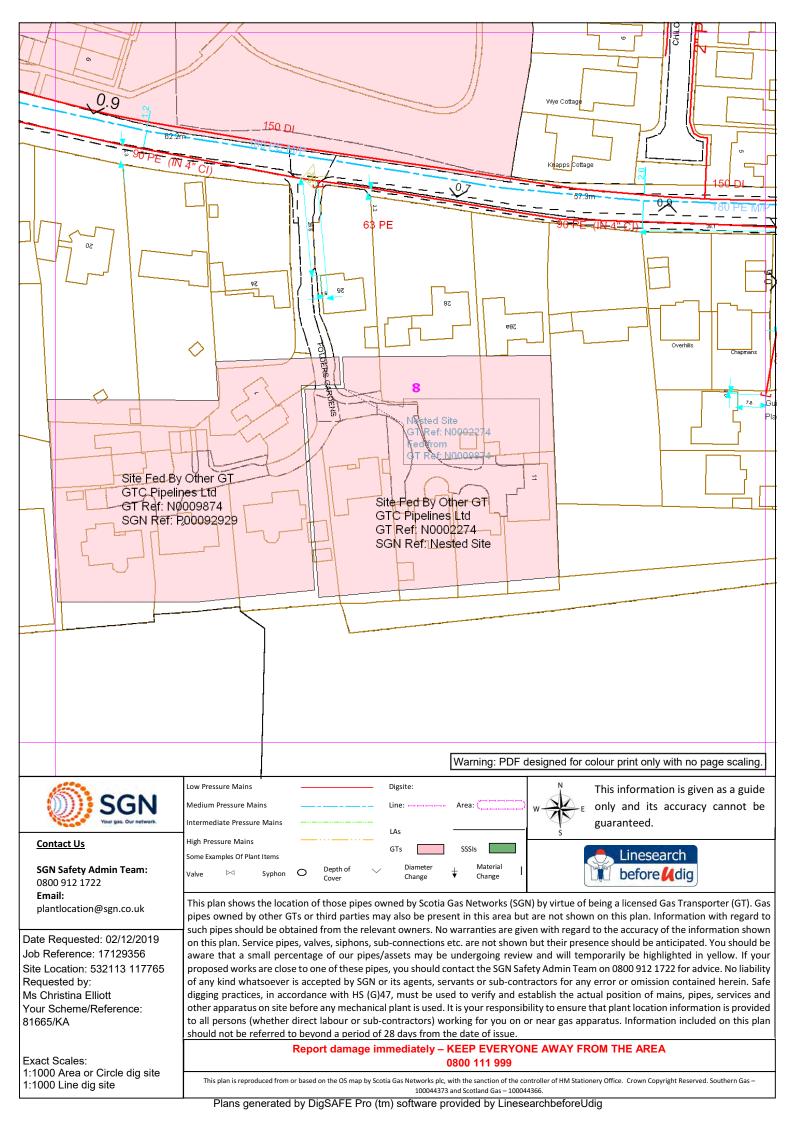
Yours sincerely,
The Safety Admin Team
For more information, visit our Dig Safely pages on sgn.co.uk

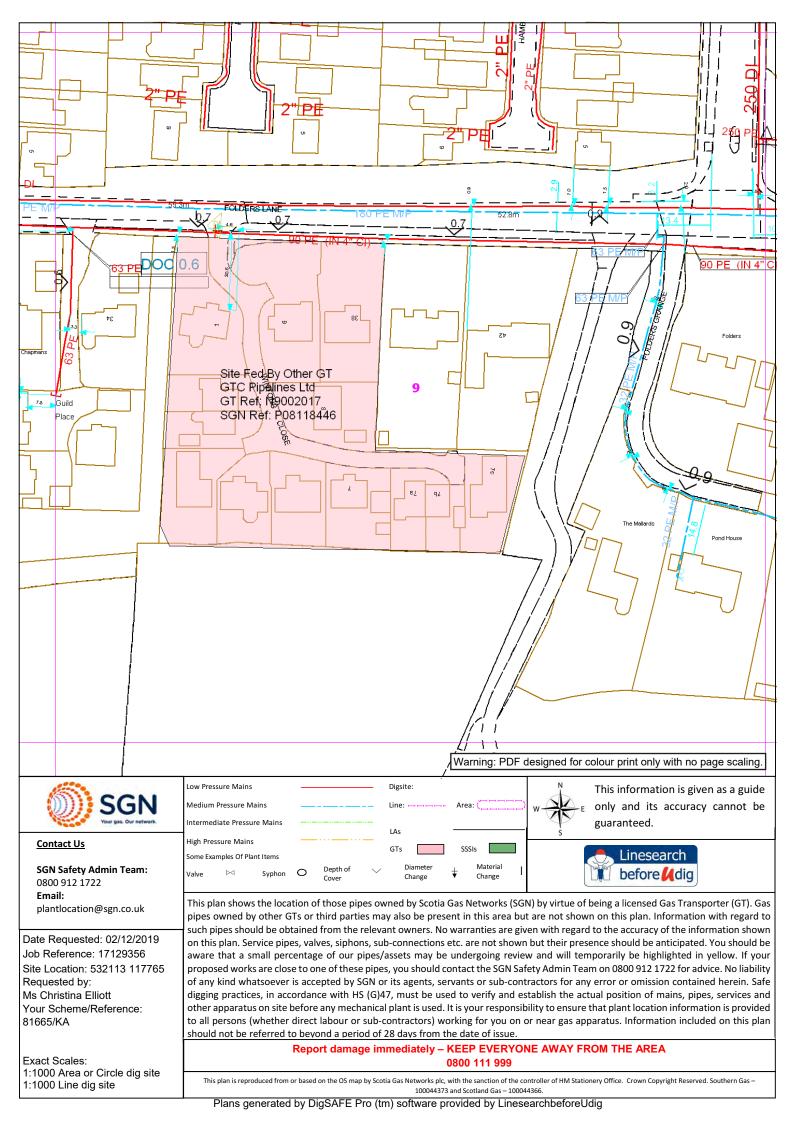
Tel: 0800 912 1722

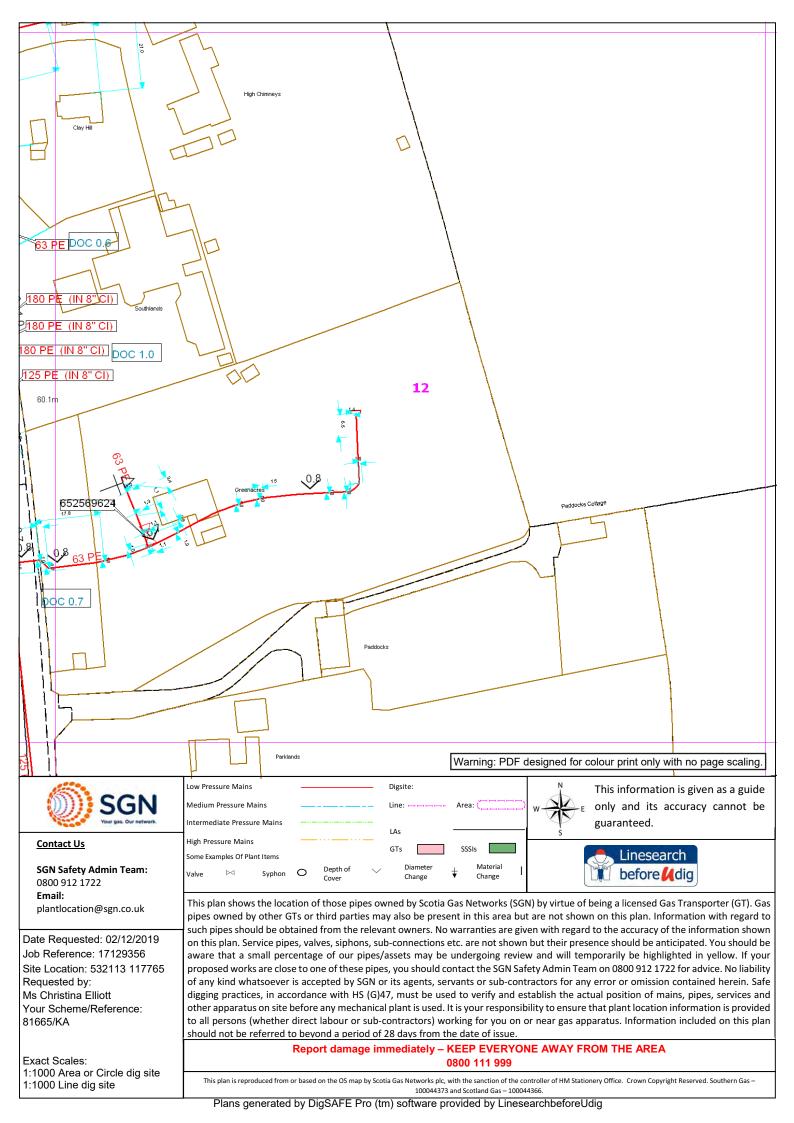
Smell gas? Call 0800 111 999

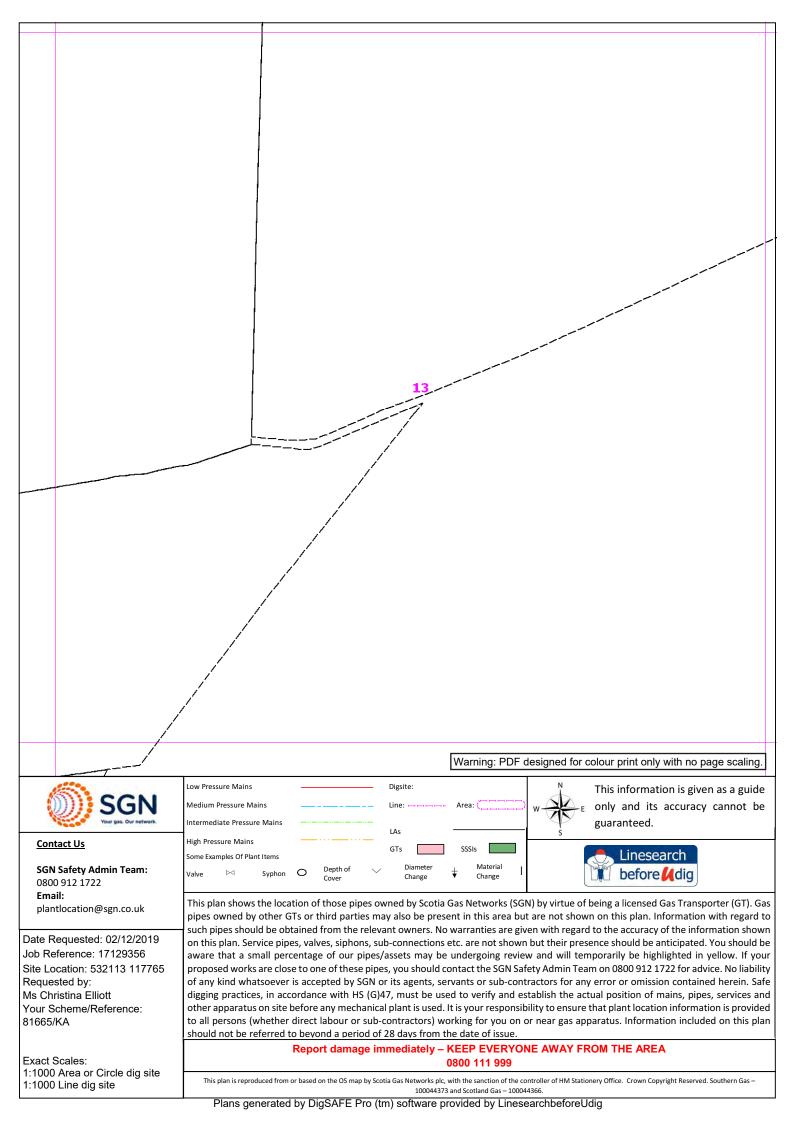


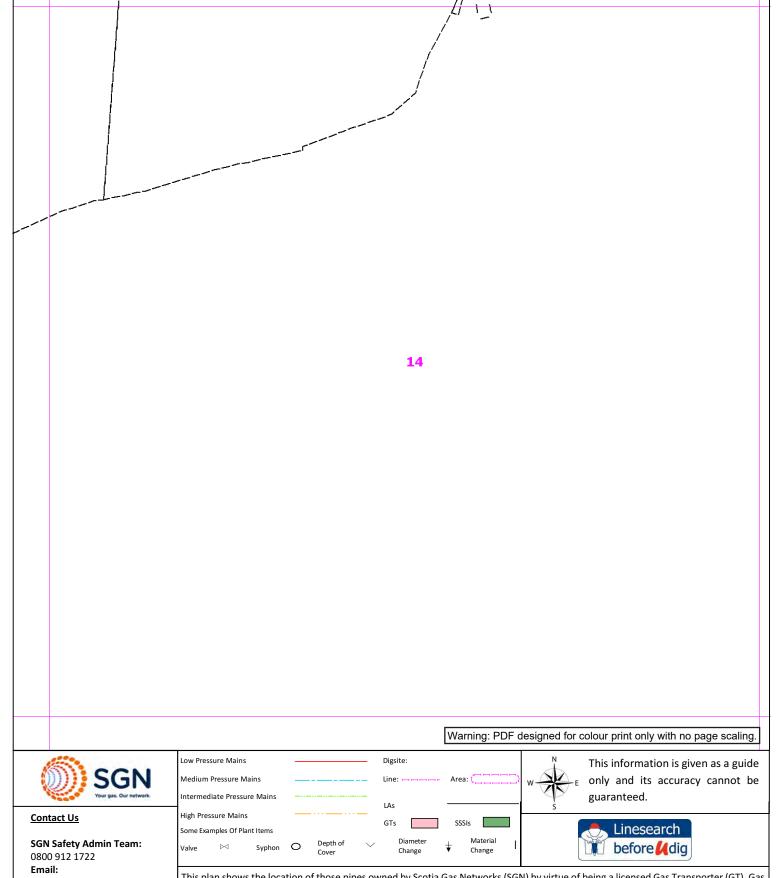












plantlocation@sgn.co.uk

Date Requested: 02/12/2019 Job Reference: 17129356 Site Location: 532113 117765 Requested by: Ms Christina Elliott Your Scheme/Reference: 81665/KA

Exact Scales:

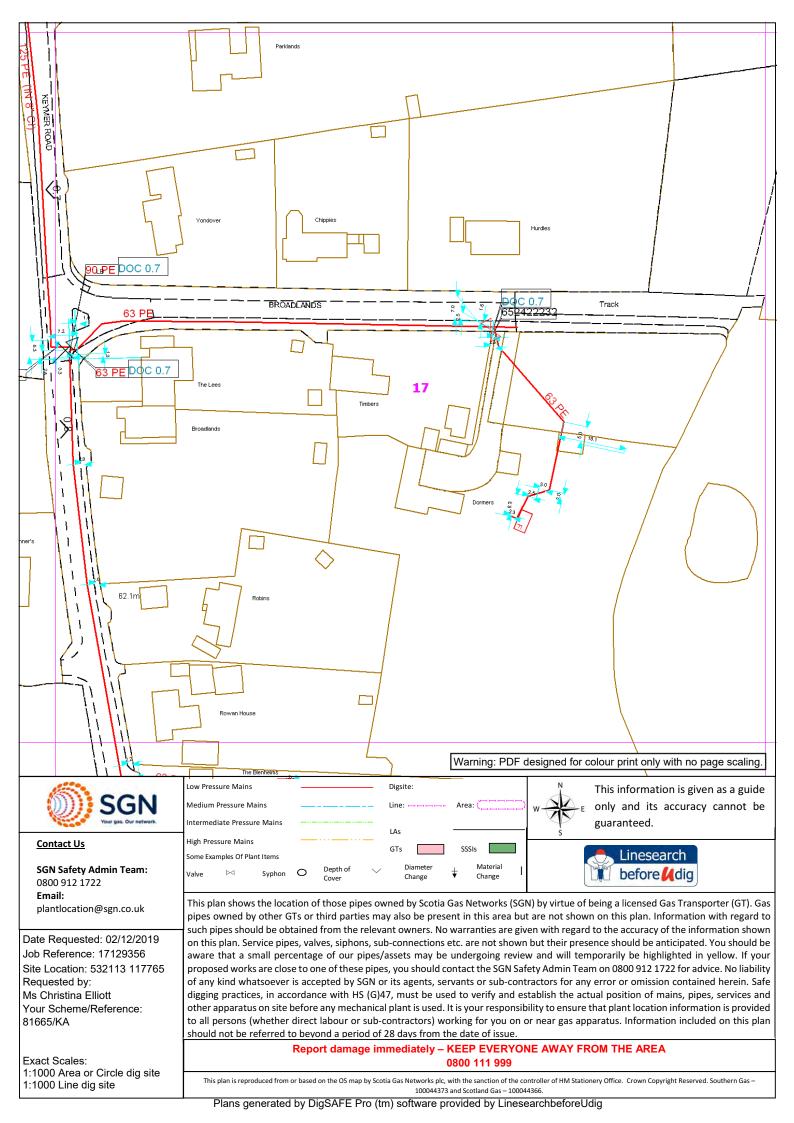
1:1000 Area or Circle dig site 1:1000 Line dig site

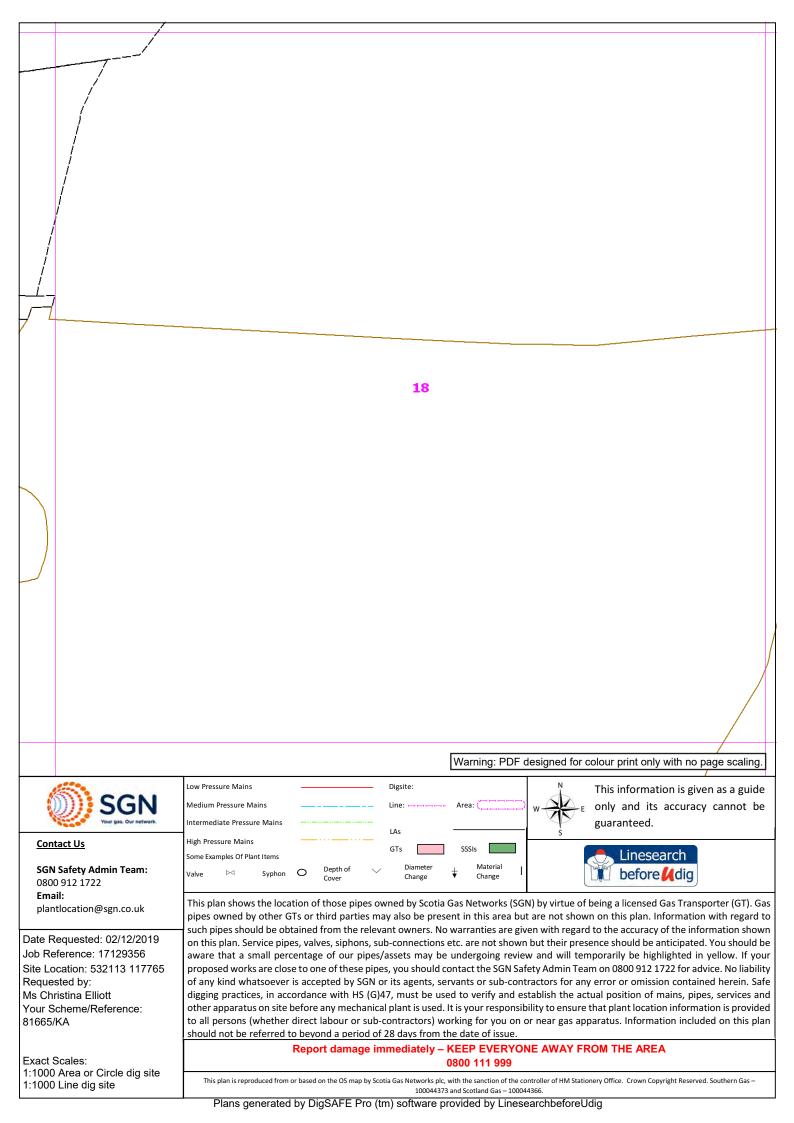
This plan shows the location of those pipes owned by Scotia Gas Networks (SGN) by virtue of being a licensed Gas Transporter (GT). Gas pipes owned by other GTs or third parties may also be present in this area but are not shown on this plan. Information with regard to such pipes should be obtained from the relevant owners. No warranties are given with regard to the accuracy of the information shown on this plan. Service pipes, valves, siphons, sub-connections etc. are not shown but their presence should be anticipated. You should be aware that a small percentage of our pipes/assets may be undergoing review and will temporarily be highlighted in yellow. If your proposed works are close to one of these pipes, you should contact the SGN Safety Admin Team on 0800 912 1722 for advice. No liability of any kind whatsoever is accepted by SGN or its agents, servants or sub-contractors for any error or omission contained herein. Safe digging practices, in accordance with HS (G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that plant location information is provided

should not be referred to beyond a period of 28 days from the date of issue. Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA 0800 111 999

to all persons (whether direct labour or sub-contractors) working for you on or near gas apparatus. Information included on this plan

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

Your Scheme/Reference:

81665/KA

Exact Scales:

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

other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that plant location information is provided

to all persons (whether direct labour or sub-contractors) working for you on or near gas apparatus. Information included on this plan

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should not be referred to beyond a period of 28 days from the date of issue.

When working near our gas mains and services

Safe system of work

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

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

Financial

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

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

HSE

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

Minimum safe working distances

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

Surface boxes and manholes

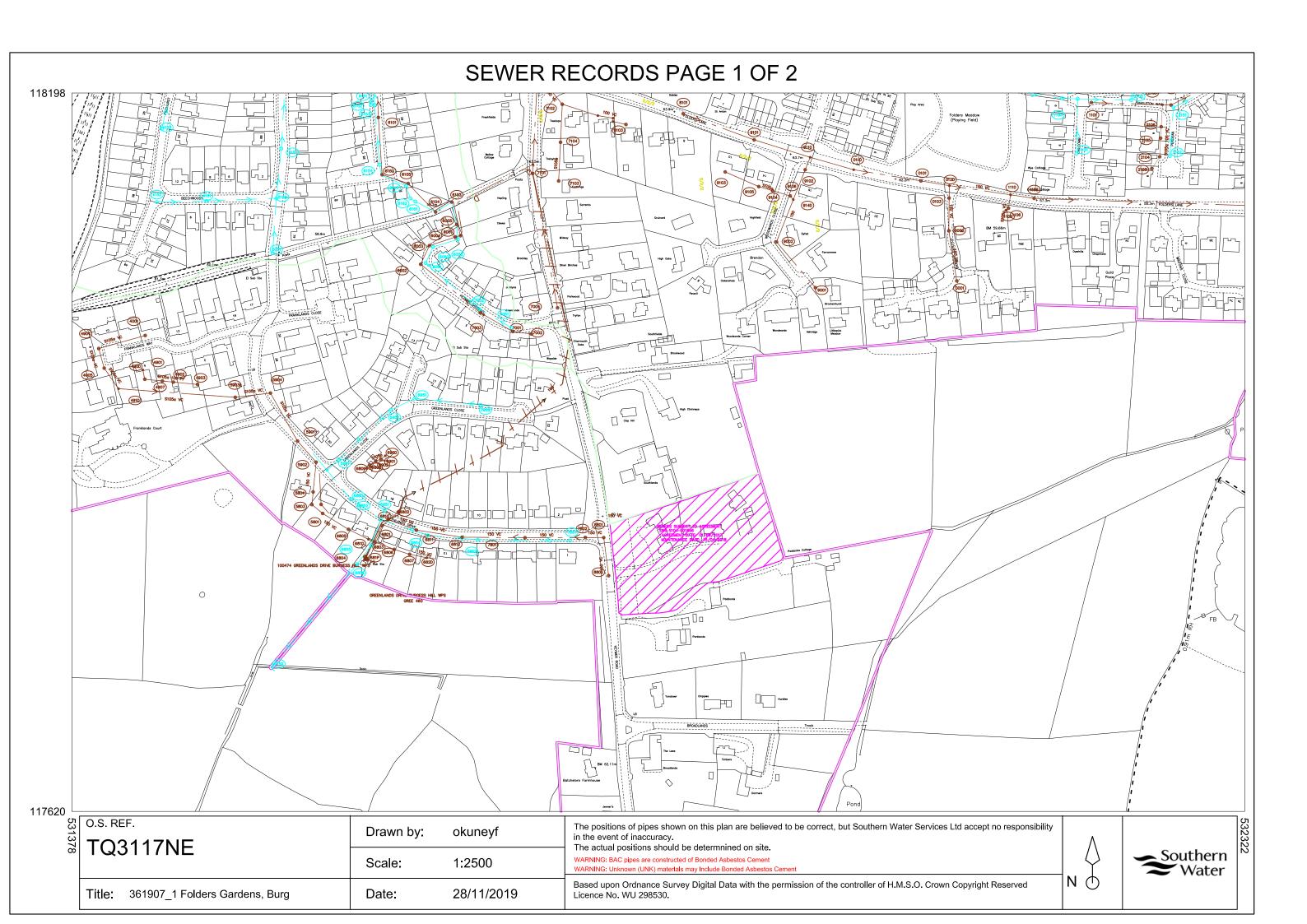
Do not bury or move our surface boxes. Free access MUST be maintained during and after your work. No manhole cover or other structure can be built over, around or under a gas main, and no work is to be carried out that results in a reduction or increase in cover or protection without prior written agreement.

Deep excavations

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

APPENDIX G

Foul Water Records



SEWER RECORDS PAGE 2 OF 2

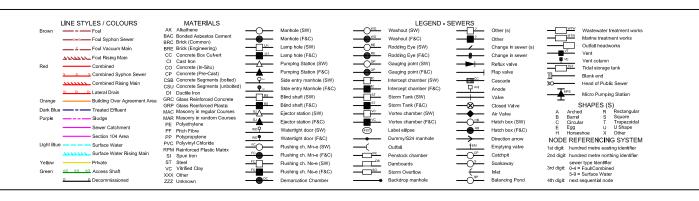
Node

Cover

Invert Size

Material Shape

Node	Cover	Invert	Size	Material	Shape		Node	Cover	Invert	Size	Material	Shape
0001X	60.18	58.63	150	VC	CIRC		6153Y	48.85	47.63	300	VC	CIRC
0002X	60.67		150	VC	CIRC		6154X	52.2	50.96	150	VC	CIRC
0101X			150	VC VC	CIRC		6161X			150	VC VC	CIRC
0103X 011DX			150 150	VC	CIRC		6162X 6163X			150 150	VC VC VC	CIRC CIRC CIRC CIRC CIRC CIRC CIRC
01100			150	VC VC	CIRC		6801X	51.26	E0 22	150	VC VC	CIRC
012DX 1101X	54.52	52.32	150	VC VC	CIRC		6802X	51.26	50.22	150	VC VC	CIRC
1101X	34.32	32.32	150	VC VC VC	CIRC		6803X	50.47	50.22 50.77 49.28	300	VC VC VC	CIRC
1105X	54.374	52.864	300	PP	CIRC		6804X	49.82	49.82	300	VC VC VC VC	CIRC CIRC CIRC CIRC CIRC CIRC
1105X 1106X	01.071	02.001	UNK	vc vc	CIRC		6805X	50.51	49.82 49.87	150	vč	CIRC
I 110DX			UNK	VC	CIRC		6806X			ÜNK	VC	CIRC
111DX			150	VC	CIRC		6807X			150	VC	CIRC
111DX 1151X	55.57	54.27	150	VC	CIRC		6808X			UNK	UNK UNK	CIRC
1155X	54.51	53.1	225	PP	CIRC		6809X			UNK	UNK	CIRC
2101X	53.94	51.44 54.213	150	VC	CIRC		6811X	52.509	50.63	150	VC	CIRC
2102X	54.913	54.213	300	PP	CIRC		6812X	54.02	51.7	150	VC	CIRC
2103X			100	VC	CIRC		681DX	50.84	49.36	150	VC	CIRC
2104X			100	VC	CIRC		682DX	E 1 70	E0 EE	150 150	VC	CIRC
2105X			100 100	VC	CIRC		6851X 6852X	51.38 51.28	50.55 50.23	300	VC VC VC VC VC VC	CIRC
2106X 210DX			150	VC	CIRC		6853X	52.51	51.19	225	VC VC	CIRC
2151X	53.89	51 99	225	VC.	CIRC		6854X	52.64	51 17	225	vč	CIRC
2152X	54.41	51.99 53.1	150	vč	CIRC		6855X	50.27	49.45 48.82	300	VČ	CIRC
4001X			UNK	VC	CIRC		6856X	49.62	48.82	300	VC	CIRC
4151X	59.18	57.47	150	VC VC VC VC VC VC VC VC VC	CIRC CIRC CIRC CIRC CIRC CIRC CIRC CIRC		6901X			UNK	UNK	CIRC CIRC CIRC CIRC CIRC CIRC CIRC CIRC
4152X	59.95 53.22	58.05	150	VC	CIRC		6902X			UNK	UNK	CIRC
4153X	53.22	51.86	150	VČ	CIRC		6951X	57.38	55.77	150	VC	CIRC
4901X							6952X	57.11	55.36	150	YC YC UNK UNK YC YC YC YC YC YC YC YC	CIRC
4902X			100	PF	CIRC CIRC CIRC CIRC CIRC CIRC CIRC CIRC		7001X	65.21 66.36	63.17 63.69	150	VC	CIRC CIRC CIRC CIRC CIRC CIRC CIRC CIRC
4904X 4905X			UNK UNK	VC VC	CIRC		7002X 7003X	65.36 63.38	63.69	150 150	VC	CIRC
4900X			100	VC PF VC VC VC VC	CIRC		7003X 7004X	66.38	60.96 64.47 62.82	150	VC	CIRC
491DX			UNK	VC.	CIRC		7051X	65.19	62.82	150	VC	CIRC
5051X	59.82	58.34	150	vč	CIRC		7052X	63.28	60.66	150	VČ	CIRC
5151X	53.15	51.55	150	VC	CIRC		7101X	63.55	00.00	225	VČ	CIRC
5152X	56.12	54.91	150	VC	CIRC		7102X			150	VC	CIRC
5801X	52.18	54.91 50.92	150	VC	CIRC		7103X			UNK	VC UNK	CIRC
5803X	52.33	51.38	150	VC	CIRC		7104X			UNK	UNK	CIRC
5804X	53.05	51.75	150	VC	CIRC CIRC CIRC CIRC CIRC CIRC CIRC CIRC		710DX			225	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	CIRC CIRC CIRC
585DX			225	VC	CIRC		7801X	57.72	55 57.7	150	VC	CIRC
5901X	57.69 55.66	54.95 54.02	150 150	VC	CIRC		7802X	60.15 59.99	57.7 58.78	150 150	VC	CIRC
5902X 5903X	55.66	54.02	UNK	VC VC	CIRC		7851X 7852X	59.99 55.02	56.78 54	150	VC VC	CIRC
5904X			UNK	VC VC	CIRC		7952X	58.42	56 Q1	150	VC	CIRC
5951X	55.04		150	VC.	CIRC		8101X	64.02	56.91 62.17	150	VC.	CIRC
6001X	58.41	55.65	150	VC VC VC VC VC VC VC VC VC VC VC	CIRC		8103X	01.02	02.17	100	vč	CIRC CIRC CIRC CIRC CIRC CIRC CIRC CIRC
6002X	59.63	55.65 56.94	150	VC	CIRC		812DX			100	VC	CIRC
6003X	58.62	56.01	150	VC	CIRC		813DX			100	VC	CIRC
6004X	58.16	55.75	150	VC	CIRC		814DX			100	VC	CIRC
6005X	58.27		150	VC	CIRC	*	8801X	59.75	57.81 58.07	150	VC	CIRC
6005Y	58.27		150	VC	CIRC	*	8802X	59.45	58.07	150	VC	CIRC
6051X	59.52	56.72	150	VC	CIRC		9001X			150	UNK UNK	CIRC
6052X	58.58	55.8 55.4	150 150	VC VC	CIRC		9002X	64.02	60.73	150 150	VC	CIRC
6053X 6101X	58.24 49.17	47.68	150	VC	CIRC		9101X 9102X	64.02 63.48	60.73 60.69	150	VC VC	CIRC
6101X	53.25	53.25	150	VC.	CIRC	*	9103X	00.40	00.03	UNK	ÜNK	CIRC CIRC CIRC CIRC CIRC CIRC CIRC
6102X	53.25	51.13	150	vč	CIRC	*	9104X			UNK	UNK UNK	CIRC
6103X	58.39	20	150	vč	CIRC	*	9105X			UNK	UNK	CIRC
6103Y	58.39		150	VC	CIRC	*	9106X 911DX			UNK	UNK	CIRC
6104X	58.13		150	VC	CIRC	*	911DX	59.99		150	VC	CIRC
6104Y	58.13		150	VC	CIRC	*	914DX			150	UNK	CIRC
6105X			150	VC	CIRC							
6151X	49	47.57	300	VC	CIRC							
6152X	49.03	47.57 47.61 47.63	300 225	VC VC VC VC VC VC VC VC VC VC	CIRC CIRC CIRC CIRC CIRC CIRC CIRC CIRC	*						
6153X	48.85	47.03	225	VC	CIRC	•						



Drawn by: okuneyf

Title: 361907_1 Folders Gardens, Burg

Date: 28/11/2019



Material Shape

Invert

APPENDIX H

Telecommunications Records





Our Ref: Ref shown on map

Date of issue: shown on map

email: nnhc@openreach.co.uk

Dear Customer,

NR & SW ACT 1991 - PROPOSED WORKS AT: **SITE LOCATION**

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

Email the Click Before You Dig Team CBYD@openreach.co.uk Visit the Click Before You Dig Website www.openreach.co.uk/cbyd

Thank you for your request of **/**/** describing the above proposals.

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

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

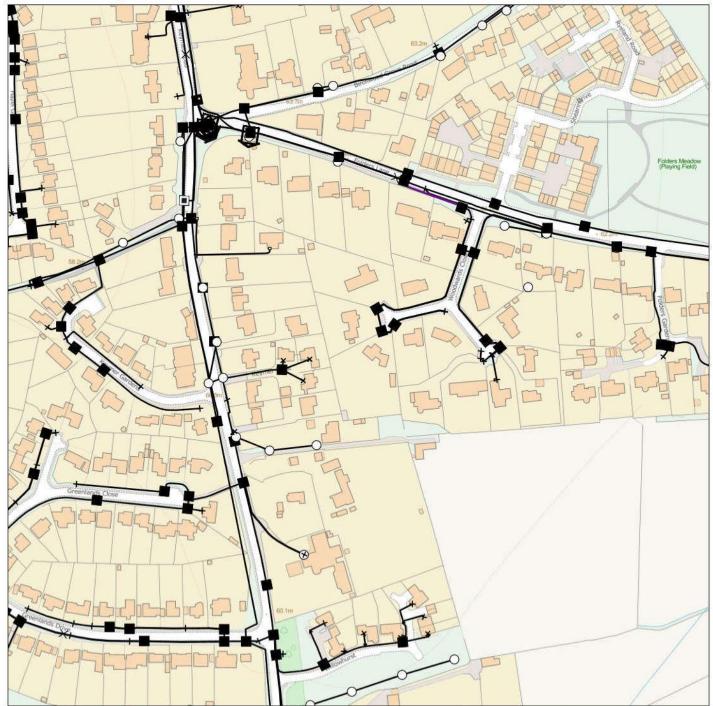
When planning excavation work or other works near to BT apparatus, please be mindful our apparatus may exist at various depths and may deviate from the marked route.

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

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

Yours faithfully,

Jason Carrington NNHC & MBE Manager



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



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

email cbyd@openreach.co.uk

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

Accidents happen

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

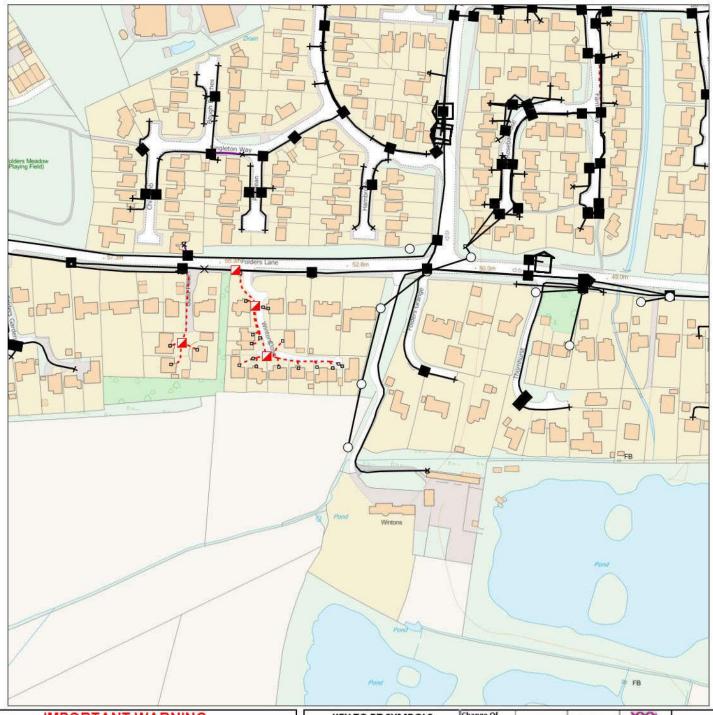
Reproduced from the Ordnance Survey map by BT by permission of Ordnance Survey on hehalf of the Controller of Her Majesty's Stationary Office (C) Crown Copyright British Telecommunications plc 100028040

KEY	TO BT SYMI	BOLS	Change Of State	+	Hatchings	XX
	Planned	Live	Split Coupling	×	Built	_
PCP	- ☆	囟	Duct Tee		Planned	
Pole	0	0	Building		Inferred	^
Box			Kiosk	(K)	Duct	
Manhole			V. Prantis and Territory		shown using di	
Cabinet	1		Exist	ing BT Plant r	bove may be di may not be reco	orded.
					e of preparatio ter the date of p	
ME.	Pending Add	In Place	Pending Remove	Not In Use		
	N N	N N	4 4	~ ~	7	

BT Ref: VYD05577G

Power Duct

Map Reference: (centre) TQ3187118042 Easting/Northing: (centre) 531871,118042



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



CLICK BEFORE YOU DIG
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email cbyd@openreach.co.uk

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

Accidents happen

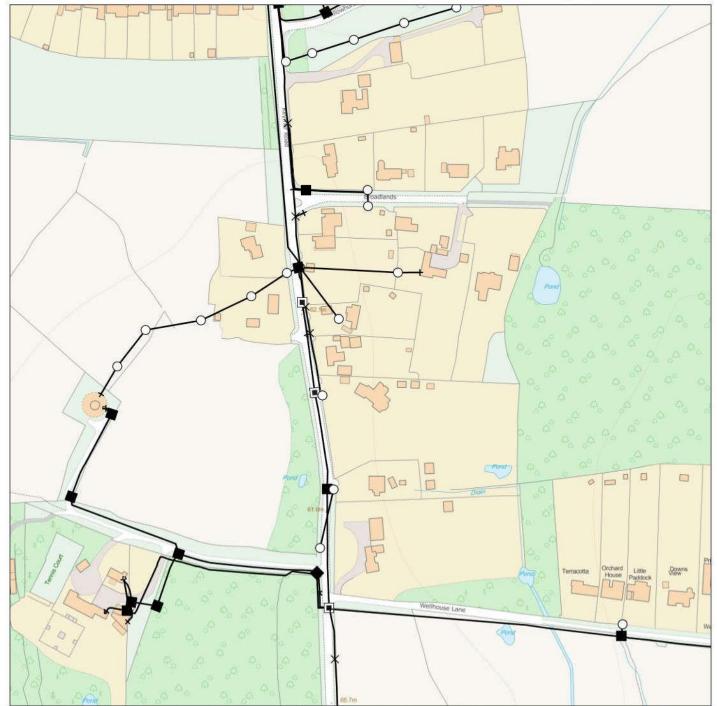
If you do damage any Openreach equipment please let us know by calling 0800 023 2023 (opt 1 + opt 1) and we can get it fixed ASAP

Reproduced from the Ordnance Survey map by BT by permission of Ordnance Survey on hehalf of the Controller of Her Majesty's Stationary Office (C) Crown Copyright British Telecommunications plc 100028040

KEY TO BT SYMBOLS			Change Of State	+	Hatchings	XX		
	Planned	Live	Split Coupling	×	Built	_		
РСР	1	図	Duct Tee		Planned			
Pole	0	0	Building		Inferred	^		
Box			Kiosk	(K)	Duct	/		
Manhole			Other proposed plant is shown using dashed lines.					
Cabinet		Û	BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded.					
					e of preparation fter the date of p			
-(Pending Add	In Place	Pending Remove	Not In Use				
Power Cable	HH	NN	A.A.	NN				
5	The state of the s	-	1 4 4	N/A	_			

BT Ref: BLV05577N

Map Reference: (centre) TQ3233618042 Easting/Northing: (centre) 532336,118042



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



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

email cbyd@openreach.co.uk

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

Accidents happen

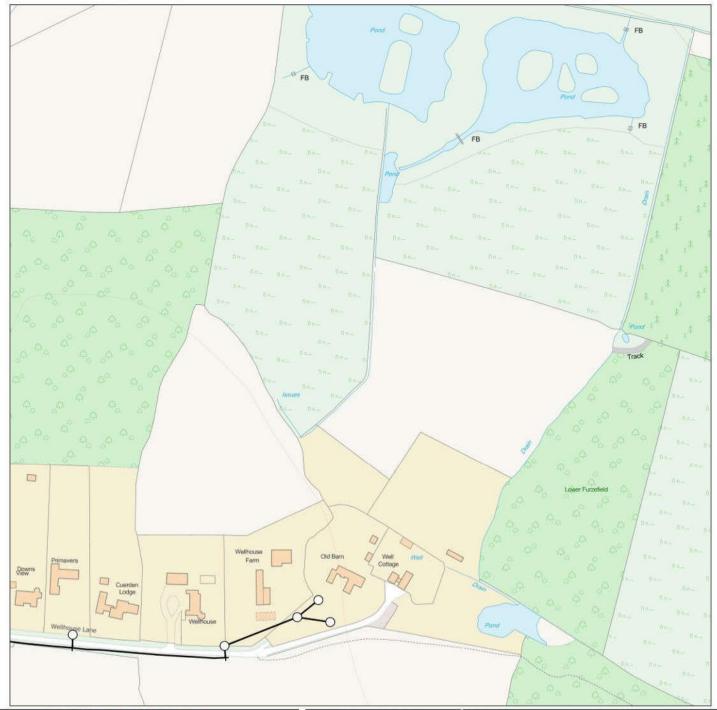
If you do damage any Openreach equipment please let us know by calling 0800 023 2023 (opt 1 + opt 1) and we can get it fixed ASAP

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KEY	TO BT SYMI	BOLS	Change Of State	+	Hatchings	XX		
	Planned	Live	Split Coupling	×	Built	_		
PCP	1	⋈	Duct Tee		Planned			
Pole	0	0	Building		Inferred	^		
Box			Kiosk	(K)	Duct	/		
Manhole			V. V. Sandarahira Inggarahira		shown using da			
Cabinet		Û	BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are					
					ter the date of p			
	Pending Add	In Place	Pending Remove	Not In Use				
Power Cable	HH	NN	AA.	NN				
Power Duct	##	N/N	+40	N/A	1			

BT Ref: PRC05578A

Map Reference: (centre) TQ3187117577 Easting/Northing: (centre) 531871,117577



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



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

ADVANCE NOTICE REQUIRED (Office hours: Monday - Friday 08.00 to 17.00)

Accidents happen

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

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KEY TO BT SYMBOLS			Change Of State	+	Hatchings			
	Planned	Live	Split Coupling	×	Built	_		
РСР	- 12	図	Duct Tee		Planned			
Pole	0	0	Building		Inferred	^		
Box			Kiosk	(K)	Duct	/		
Manhole			Other proposed plant is shown using dashed lines.					
Cabinet	1		BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded.					
					e of preparation ter the date of p	The state of the s		
-(-	Pending Add	In Place	Pending Remove	Not In Use				
Power Cable	HH	NN	AA.	NN				
Power Duct	##	NN	110	N/A	1			

BT Ref: SLD05579W

Map Reference: (centre) TQ3233617577 Easting/Northing: (centre) 532336,117577



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



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

email cbyd@openreach.co.uk

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

Accidents happen

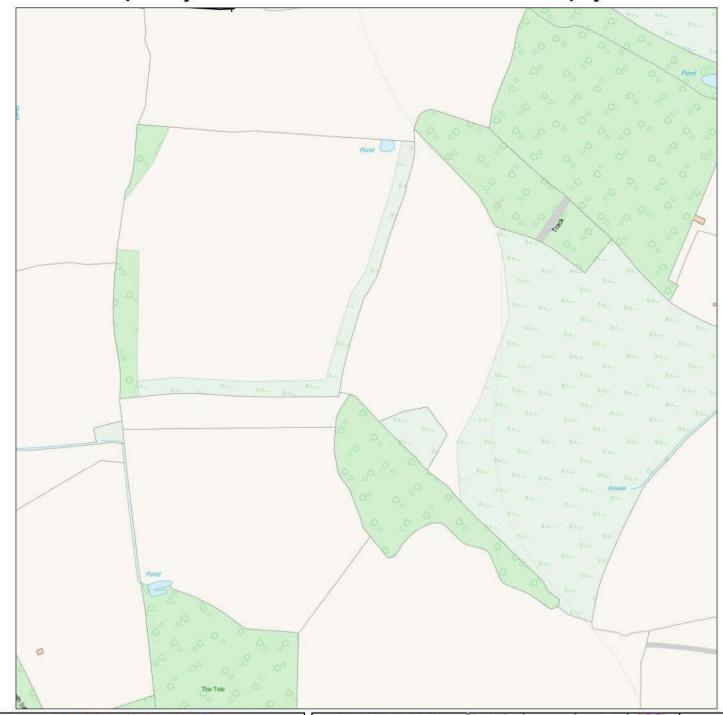
If you do damage any Openreach equipment please let us know by calling 0800 023 2023 (opt 1 + opt 1) and we can get it fixed ASAP

Reproduced from the Ordnance Survey map by BT by permission of Ordnance Survey on hehalf of the Controller of Her Majesty's Stationary Office (C) Crown Copyright British Telecommunications plc 100028040

KEY	TO BT SYM	BOLS	Change Of State	+	Hatchings	XX		
	Planned	Live	Split Coupling	×	Built	^		
РСР	1	囟	Duct Tee		Planned			
Pole	0	0	Building		Inferred	^		
Box			Kiosk	(K)	Duct	/		
Manhole		■	VANCOUNTER TOTAL PROPERTY		shown using da			
Cabinet		Û	BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are					
					ter the date of p			
-(-	Pending Add	In Place	Pending Remove	Not In Use				
Power Cable	HH	NN	AA.	NN				
Power Duct	**	N/N	##1	N/A	1			

BT Ref: DPO05577V

Map Reference: (centre) TQ3187117112 Easting/Northing: (centre) 531871,117112



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



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

email cbyd@openreach.co.uk

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

Accidents happen

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

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KEY	TO BT SYME	BOLS	Change Of State	+	Hatchings	XX
	Planned	Live	Split Coupling	×	Built	_
PCP	100	囟	Duct Tee		Planned	
Pole	0	0	Building		Inferred	^
Вох	4		Kiosk	(K)	Duct	_
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Cabinet	13	Û	Exist	ing BT Plant n	bove may be di nay not be reco	rded.
					e of preparation ter the date of p	
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St. HAVE		1000	0.0		1	

BT Ref: LTL05583L

Power Duct

Map Reference: (centre) TQ3233617112 Easting/Northing: (centre) 532336,117112



We have checked CityFibre's website and in this instance your area is not affected.

Thatcher, Laiska

From: NRSWA <nrswa.nrswa@sky.uk>
Sent: 02 December 2019 15:48
To: Utility Solutions GDC Requests

Subject: 24HRS URGENT Plant Enquiry - 81665 - Site off Keymer Road, Burgess Hill - 02/12/2019

Categories: LT Dealing With



Thank you for your enquiry.

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

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

Regards



From: Utility Solutions GDC Requests < requests.utilitysolutions@atkinsglobal.com>

Sent: 02 December 2019 05:47

To: plantenquiries@catelecomuk.com; plantenquiries@lastmile-uk.com; enquiries@environment-agency.gov.uk; plantenquiries@instalcom.co.uk; opburiedservicesenquiries@networkrail.co.uk; NRSWA <nrswa.nrswa@sky.uk>; assetrecords@utilityassets.co.uk; osp-team@uk.verizon.com; National Plant Enquiries

<OSM.enquiries@atkinsglobal.com>; customer@eastsussexhighways.com; sustreetworks@westsussex.gov.uk **Subject:** [EXTERNAL] 24HRS URGENT Plant Enquiry - 81665 - Site off Keymer Road, Burgess Hill - Please respond by

02/12/2019 Importance: High

24HRS Urgent- It would be greatly appreciated if you could reply ASAP, where possible by 02/12/2019.Thanks in advance.

Our Reference: 81665

Site Name: Site off Keymer Road, Burgess Hill

Works Description: Utility Works

Site Grid References: 532132 117755,532494 117558,531739 118080,531933 118174,532221 117336

To whom it may concern,

From: UK OSP-Team <osp-team@uk.verizon.com>

Sent: 02 December 2019 11:46
To: Utility Solutions GDC Requests

Cc: UK OSP-Team

Subject: RE: 24HRS URGENT Plant Enquiry - 81665 - Site off Keymer Road, Burgess Hill - Please

respond by 02/12/2019

Follow Up Flag: Follow up

Due By: 03 December 2019 00:00

Flag Status: Flagged

Dear Sir/Madam

Verizon is a licensed Statutory Undertaker.

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

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

Yours faithfully

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

From: Utility Solutions GDC Requests [mailto:requests.utilitysolutions@atkinsglobal.com]

Sent: 02 December 2019 05:47

To: plantenquiries@catelecomuk.com; plantenquiries@lastmile-uk.com; enquiries@environment-agency.gov.uk; plantenquiries@instalcom.co.uk; opburiedservicesenquiries@networkrail.co.uk; nrswa@sky.uk; assetrecords@utilityassets.co.uk; UK OSP-Team; National Plant Enquiries; customer@eastsussexhighways.com; sustreetworks@westsussex.gov.uk

Subject: [E] 24HRS URGENT Plant Enquiry - 81665 - Site off Keymer Road, Burgess Hill - Please respond by

02/12/2019

Importance: High

24HRS Urgent- It would be greatly appreciated if you could reply ASAP, where possible by 02/12/2019. Thanks in advance.

Our Reference: 81665

Site Name: Site off Keymer Road, Burgess Hill

Works Description: Utility Works

Site Grid References: 532132 117755,532494 117558,531739 118080,531933 118174,532221 117336

To whom it may concern,

Please find enclosed a plant enquiry for your attention.

We request plans showing the location of your company's affected plant in relation to the entire site area shown within the boundary on the attached map. Grid references and postcodes relative to the site boundary are provided on the attached map to help you locate the site.

Utility Solutions GDC Requests

From: Gopalakrishnan, Roshni
Sent: 02 December 2019 16:40
To: Utility Solutions GDC Requests

Subject: RE: 24HRS URGENT Plant Enquiry - 81665 - Site off Keymer Road, Burgess Hill - Please respond

by 02/12/2019

Please accept this email as confirmation that Vodafone: Fixed **does not** have apparatus within the vicinity of your proposed works detailed below.

Many thanks.

Plant Enquiries Team T: +44 (0)1454 662881

E: osm.enquiries@atkinsglobal.com

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

ATKINS working on behalf of Vodafone: Fixed



PLEASE NOTE:

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

IMPORTANT - PLEASE READ:-

Diversionary works may be necessary if the existing line of the highway/railway or its levels are altered, where apparatus is affected. Where apparatus is affected and requires diversion, you must submit draft details of the proposed scheme with a request for a 'C3 Budget Estimate' to c3requests@vodafone.com These estimates should be provided by Vodafone normally within 20 working days from receipt of your request. Please include proof of this C2 response when requesting a C3 (using the 'forward' option).



Please consider the environment before printing this e-mail

From: Utility Solutions GDC Requests < requests.utilitysolutions@atkinsglobal.com>

Sent: 02 December 2019 11:17

To: plantenquiries@catelecomuk.com; plantenquiries@lastmile-uk.com; enquiries@environment-agency.gov.uk; plantenquiries@instalcom.co.uk; opburiedservicesenquiries@networkrail.co.uk; nrswa@sky.uk;

assetrecords@utilityassets.co.uk; osp-team@uk.verizon.com; National Plant Enquiries

<OSM.enquiries@atkinsglobal.com>; customer@eastsussexhighways.com; sustreetworks@westsussex.gov.uk
Subject: 24HRS URGENT Plant Enquiry - 81665 - Site off Keymer Road, Burgess Hill - Please respond by 02/12/2019

Importance: High

24HRS Urgent- It would be greatly appreciated if you could reply ASAP, where possible by 02/12/2019. Thanks in advance.

Our Reference: 81665

Site Name: Site off Keymer Road, Burgess Hill

Works Description: Utility Works

Site Grid References: 532132 117755,532494 117558,531739 118080,531933 118174,532221 117336

Crisp, Paul

From: Plantenquiries <plantenquiries@catelecomuk.com>

Sent: 10 December 2019 14:03

To: Utility Solutions GDC Requests

Subject: RE: 24HRS URGENT Plant Enquiry - 81665 - Site off Keymer Road, Burgess Hill - Please respond

by 02/12/2019

Categories: PC Dealing With

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

Dear Sir/Madam,

Thank you for your enquiry for the above reference.

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

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

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

Kind regards,

Plant Enquiry Team



Please consider the environment before printing this email.

This e-mail and any files transmitted with it are confidential and are intended solely for the use of the intended recipient(s). If you are not the intended recipient, you must not copy, distribute or take any action based on this communication. If you have received this communication in error please contact <u>plantenquiries@catelecomuk.com</u> and delete this communication and any copies of it. Any views or opinions presented are solely those of the author and do not necessarily represent those of C A Telecom LTD. C A Telecom LTD monitors e-mails to ensure that its systems operate effectively and to minimise the risk of viruses.

From: Utility Solutions GDC Requests < requests.utilitysolutions@atkinsglobal.com >

Sent: 02 December 2019 05:47



ATKINS

The Hub, 500 Park Avenue Aztec West Bristol BS32 4RZ Virgin Media Field Services Units 1-12 Broad Lane Mayfair Business Park Bradford Yorkshire BD4 8PW

Tel: 0870 888 3116 Opt 2

Plant Enquiry Ref: VM.1153870 Letter Date 02.12.2019 Your Ref: 81665 Date: 03.12.2019

Dear Sir/Madam,

Enquiry Location: Site off Keymer Road, Burgess Hill RH15 OBG.

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

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

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

This initial payment will cover the following: -

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

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

The address to send the cheque is:

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

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

Should your request be in relation to a Residential New Development, Virgin Media would like the opportunity to assist with your diversionary quote and serve your site free of charge, offering your customers the fastest widely available broadband speeds on the market up to 500Mbps.

For Commercial New Developments our team can also be reached through the below link, ensuring future businesses to your site are connected to our fibre network.

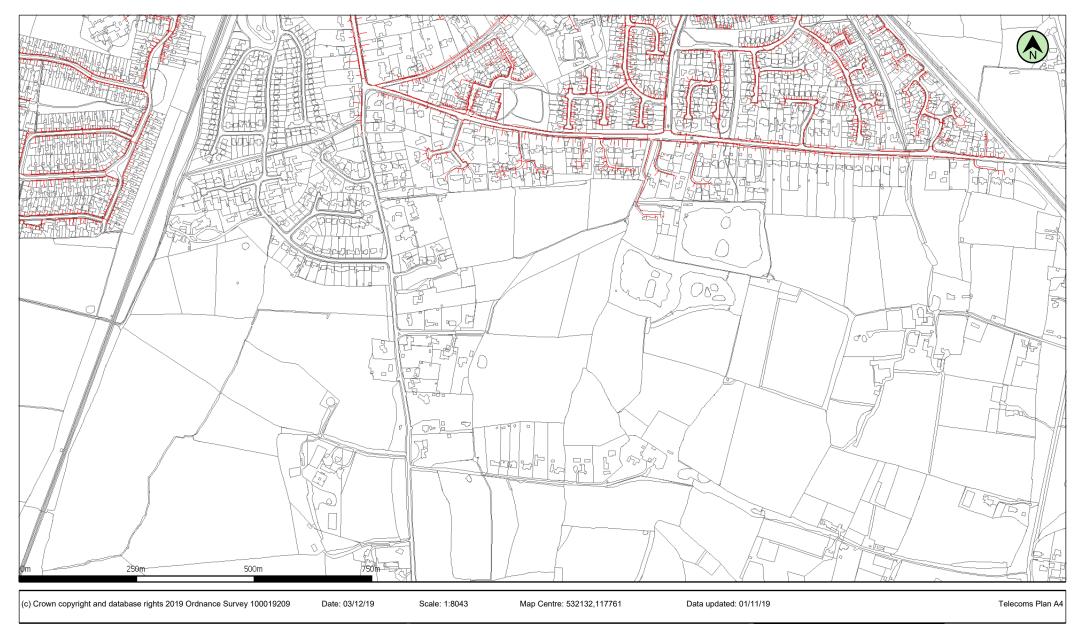
Simply head over to www.virginmedia.com/developer to fill in the enquiry form, and a member of our New Developments team will be in touch within 48 hours.

You will also find useful information about additional benefits to you and your site, plus a handy 'developers guide' can be downloaded with detailed installation requirements.

Or if you prefer to talk, please call the Diversionary Team on: 0800 408 0088 Option 2

Yours faithfully

National Plant Enquiries Team,



Important Information - please read The purpose of this plan is to identify Virgin Media apparatus. We have tried to make it as accurate as possible but we cannot warrant its accuracy. In addition, we caution that within Virgin Media apparatus there may be instances where mains voltage power cables have been placed inside green, rather than black ducting. Further details can be found using the "Affected Postcodes.pdf", which can be downloaded from this website. Therefore, you must not rely solely on this plan if you are carrying out any excavation or other works in the vicinity of Virgin Media apparatus. The actual position of any underground service must be verified by cable detection equipment, etc. and established on site before any mechanical plant is used. Accordingly, unless it is due to the negligence of Virgin Media, its employees or agents, Virgin Media will not have any liability for any omissions or inaccuracies in the plan or for any loss or damage caused or arising from the use of and/or any reliance on this plan. This plan is produced by Virgin Media Limited (c) Crown copyright and database rights 2019 Ordnance Survey 100019209.

Duct, Trench	Chamber	Cabine
	-	

bharath.gowda@virginmedia.co.uk

VM.1153870



APPENDIX I

Street Lighting Records





Q

FAQ Statistics Contact Us Home Report a Fault Attachments to Street Lights Developer Information

Search

Type the name of a street, postcode or a landmark below and press Q to find that location quickly or use the map controls to move and zoom in manually.

RH15 OBG

Postcode RH15 0BG

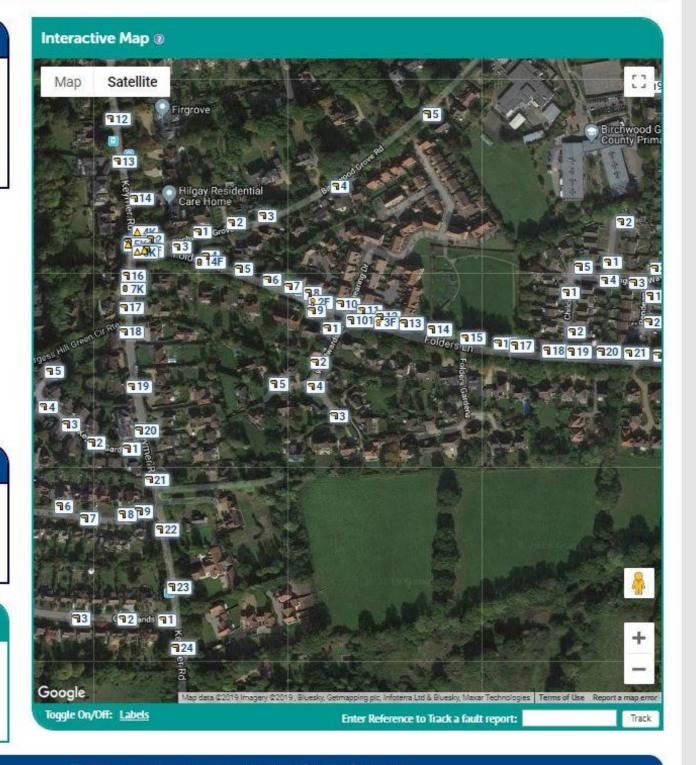
Legend of light icons

- 8 Beacon
- Bollard
- Feeder Pillar School Crossing Light
 △ Sign
- Other
- Street Light O Tunnel Light.
- Subway

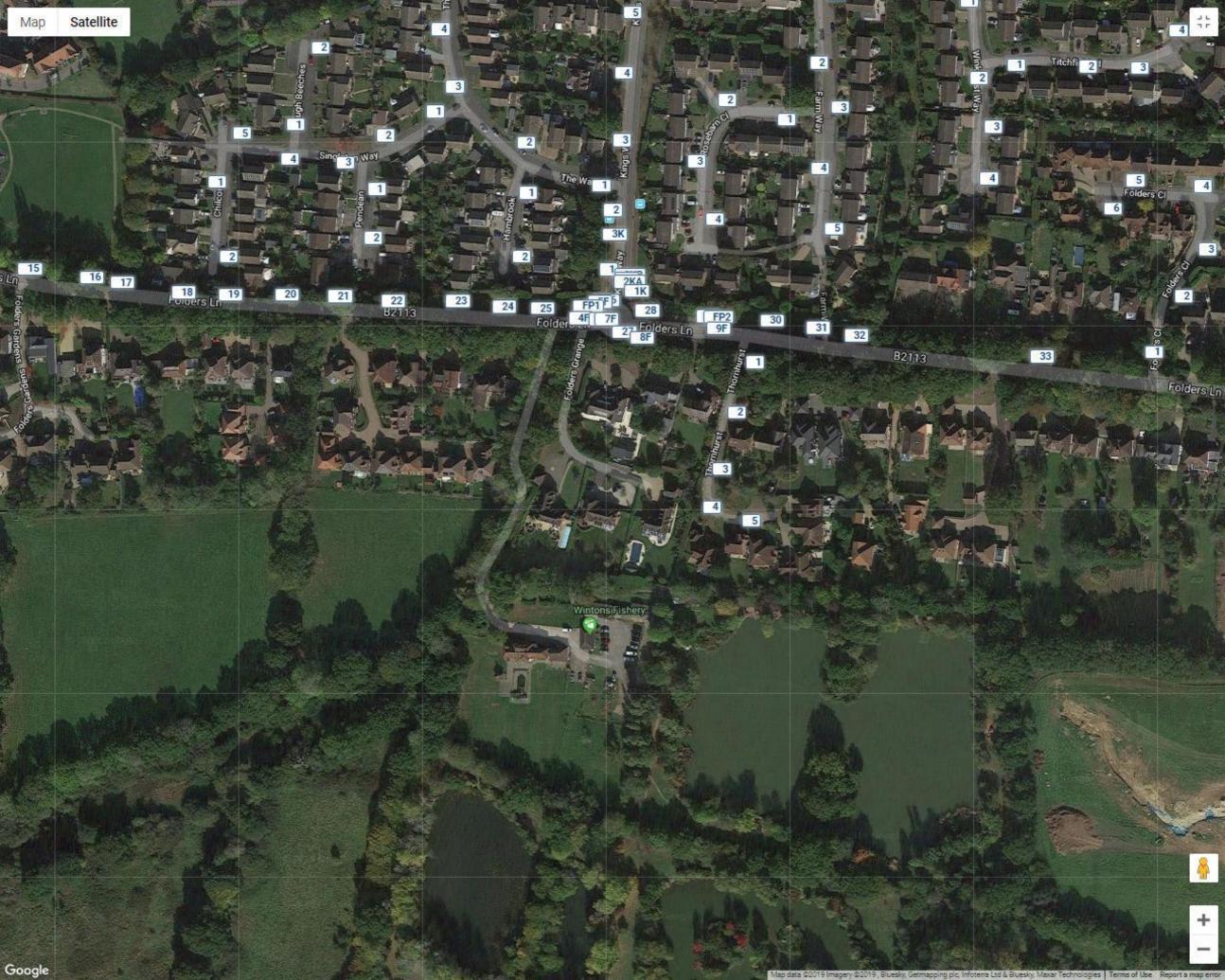
Having trouble?

Having trouble using the interactive version?

Use the standard tool



Click here to enter your postcode to see localised information for your area













We have checked West Sussex County Council's website and in this instance your area is not affected for CCTV.

Ref: 81665 Date: 03/12/19 CHECKED

NRSWA Enquiry for <u>WSCC owned</u> Underground Plant in

.....Keymer Road, Burgess Hill.....

WSCC have received the attached third party enquiry regarding the location and nature of plant buried beneath the public highway.

We are <u>legally bound</u> under the New Roads and Street Works Act 1991 and Records of Apparatus (Regulations) 2000 to disclose all relevant information that may be of interest to the third party.

<u>Please complete</u> the details relevant to your area of works.

If you have no record of plant or other interest, please state "No record of apparatus or interest."

<u>If your records are incomplete</u> for the area concerned, please state "No record available"; this at least warns the utility company to be additionally cautious.

(See sheet 2 for details to be commented upon/supplied.)

H&T Section	Comment	Drawing attached	Signed
Streetworks	Keymer Rd – type 4 road, traffic sensitive from 06:30-09:30 and 16:00-18:30 Folders Lane – type 4 road, traffic sensitive from 06:30-09:30 and 16:00-18:30 Wellhouse Lane – Private Street Greenlands Drive - type 4 road, traffic sensitive from 06:30-09:30 and 16:00-18:30 Kings Way - type 4 road, traffic sensitive from 06:30-09:30 and 16:00-18:30	NONE	R. Ried'l
Street lighting	Private cables identified	See attached map	CJ Blight
ITS & Traffic Monitoring	No record of apparatus or interest	N/A	C Gasson
Traffic signals	No record of apparatus or interest	N/A	A.Norris
Highway Boundaries	Attached plans scaled 1:2,500 where the extent of highway is shown on the pink shaded area. Part of the area requested is in East Sussex, therefore we're unable to supply HB plan for this	Yes	A.Toleva

Bridges and structures	No record of apparatus or interest	N/A	M.Theobald
Development Planning	No record of apparatus or interest	N/A	C.Pratt
Drainage (Drayton Depot)	Wscc highway gullies	yes	J Trimmer

IF YOU ARE COMPLETING THE LAST APPLICABLE SECTION ON THE ABOVE LIST, PLEASE SEND EMAIL TO <u>STREET.WORKS@WESTSUSSEX.GOV.UK</u> INFORMING THAT THE ENQUIRY IS COMPLETE AND THE TEAM WILL THEN FORWARD THE WHOLE RESPONSE TO THE APPLICANT.

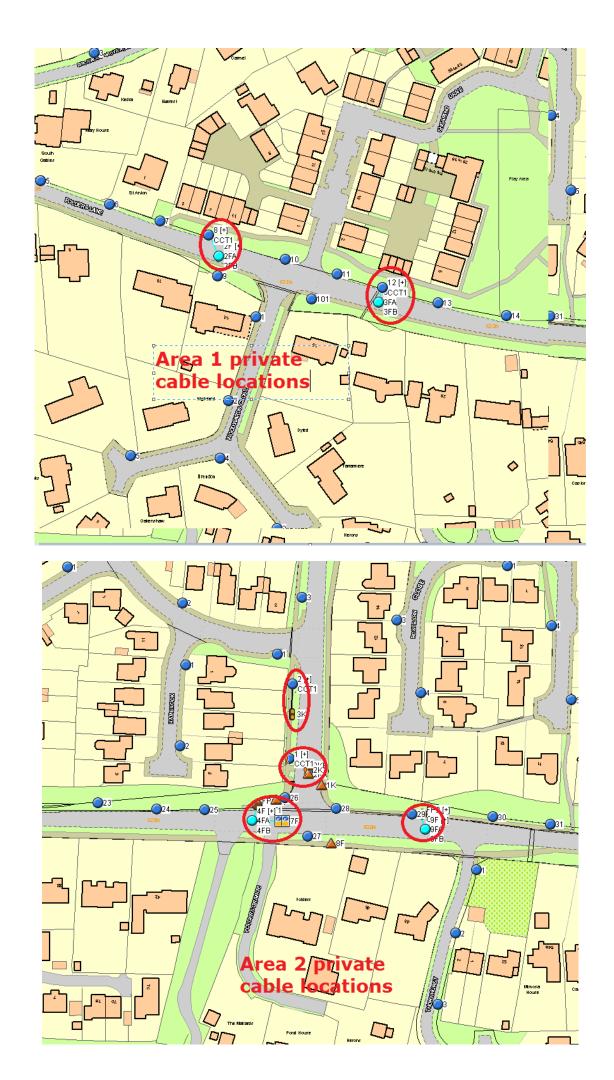
Notes for Departments

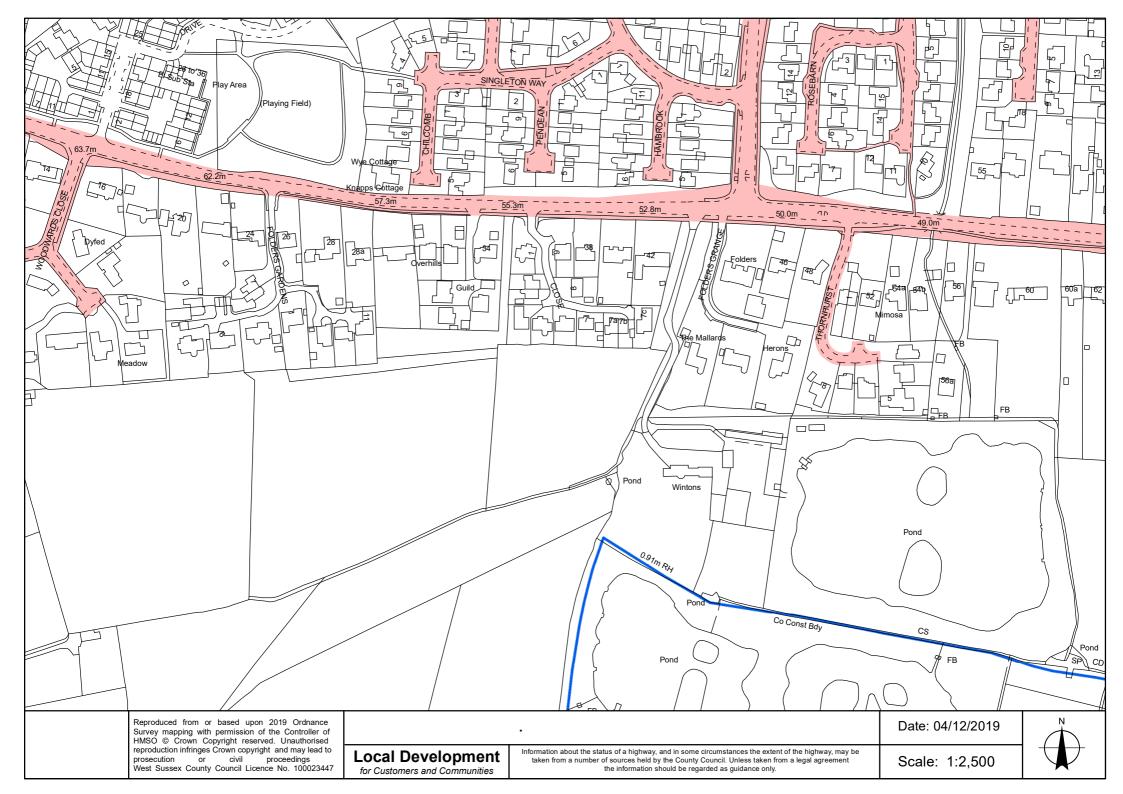
H&T Section	Provide information for
Streetworks	Street designation, TSS, Protected Street, Special engineering Difficulty, any known long term works planned by others, Non - Stat apparatus (provide drawing)
Street lighting	Private cable runs – provide drawing
Traffic signals	Private supply cable, signals cable ducts, loops – provide drawing
Highway Boundaries	Supply drawing
Bridges and structures	Supply drawing
Development Planning	Any schemes that may impact on the proposed works
Drainage (Drayton Depot)	Supply drawing

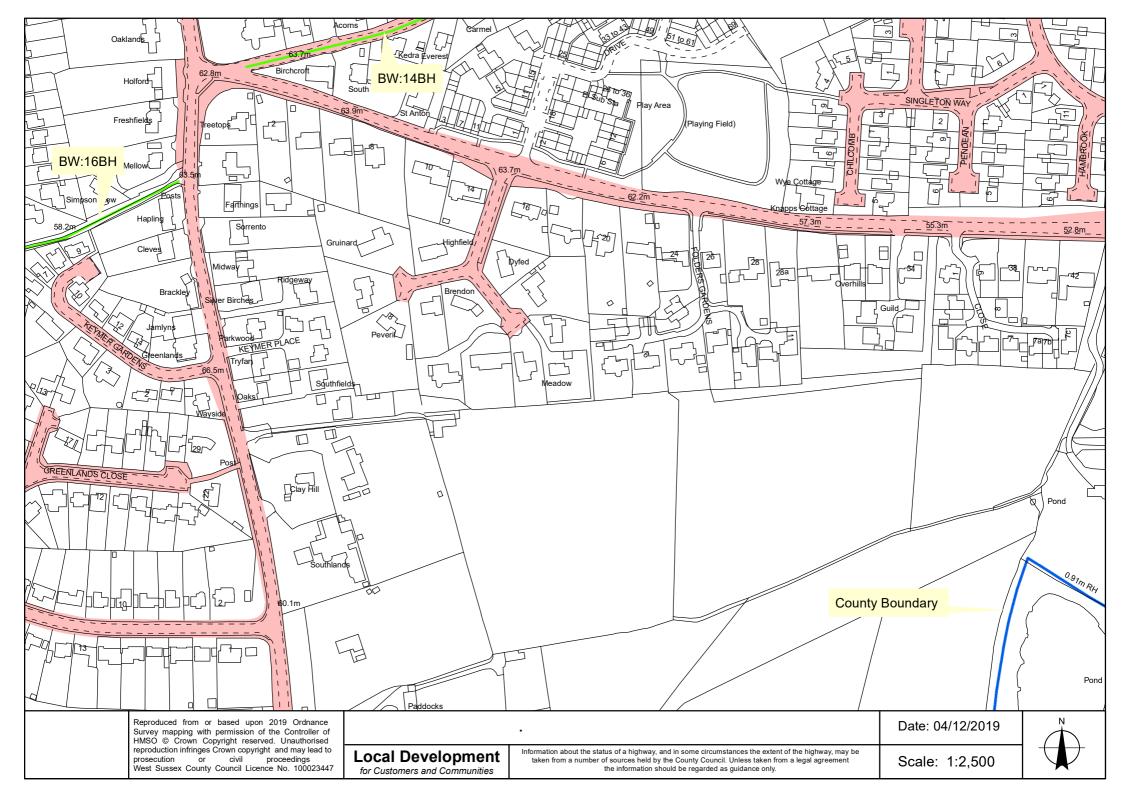
Street lighting Private cable location guidance

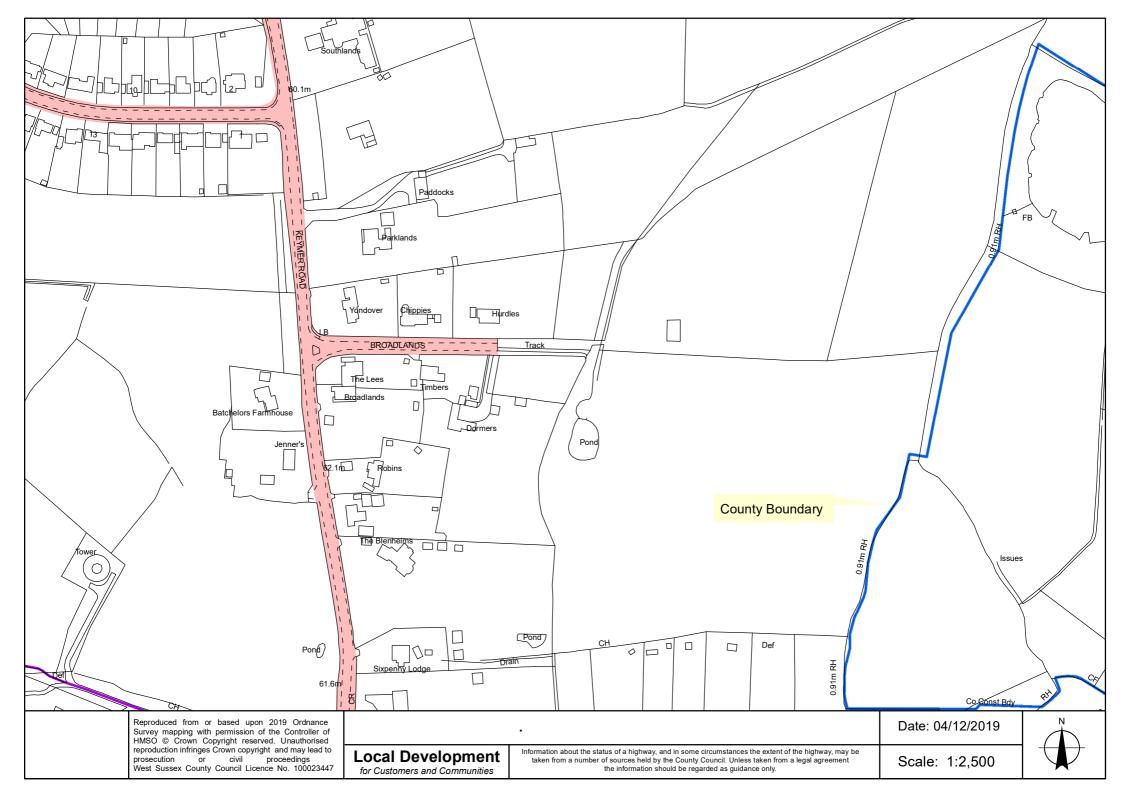


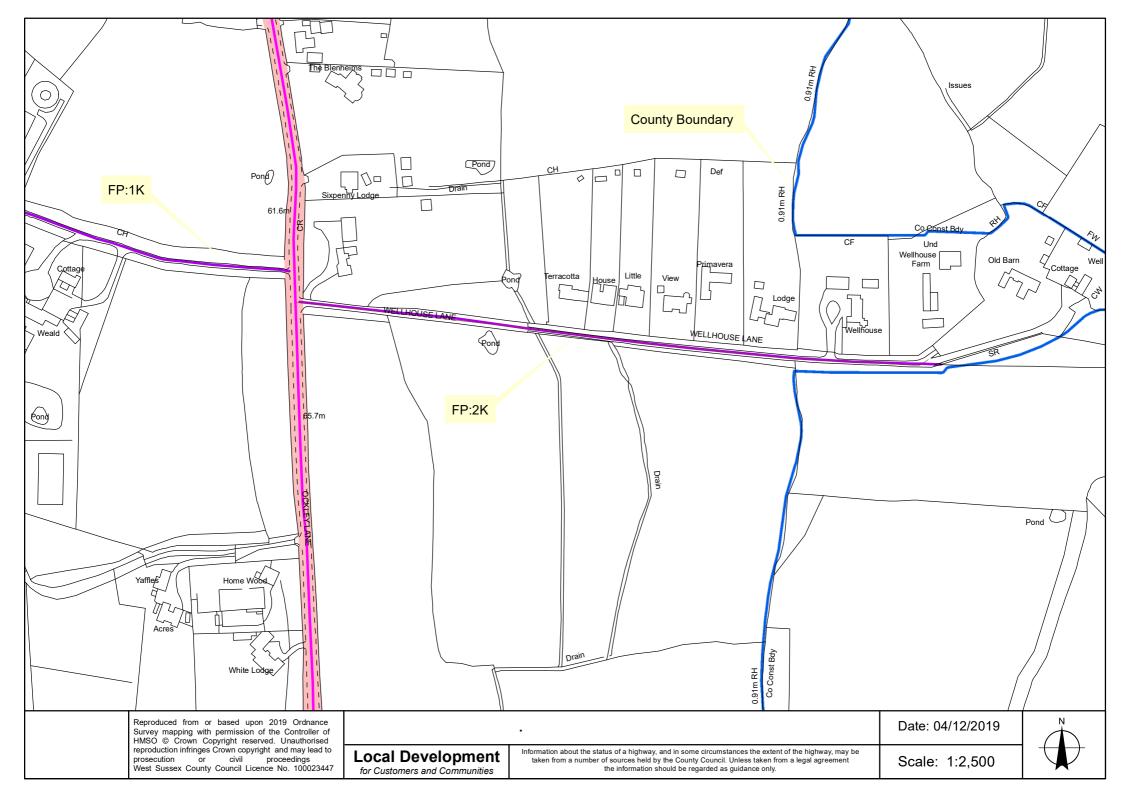
Page 2 shows the two areas in close up, these give guide locations where private street lighting/lit signage/bollards cables are located.



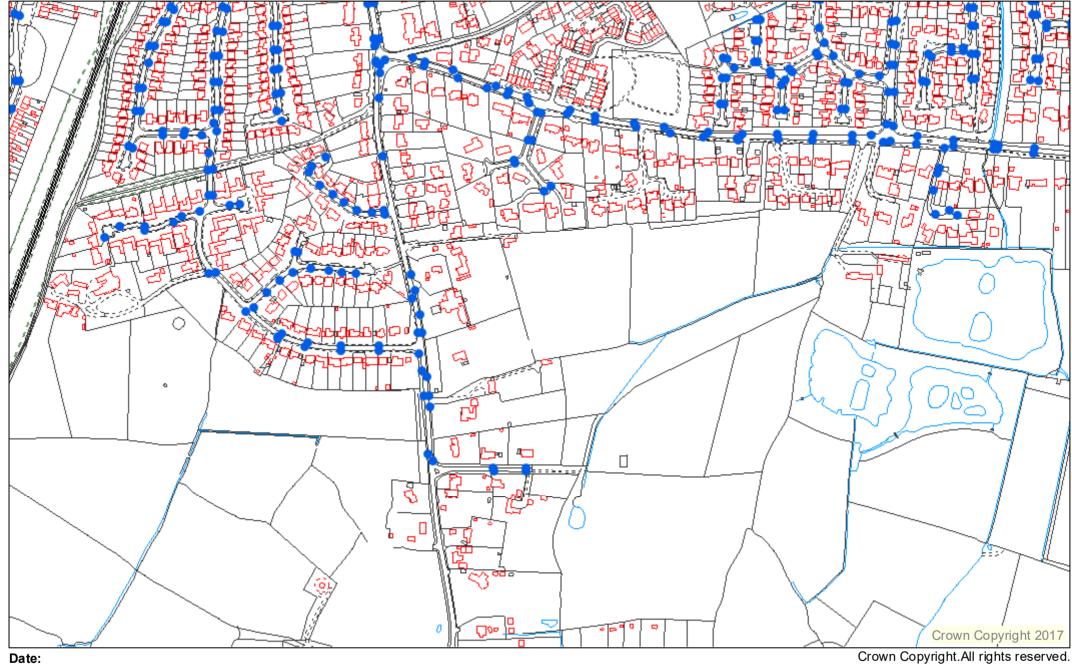








81665 wscc highway gullies



Author:

Scale 1:4,782 Map Notes:

Crown Copyright.All rights reserved.
West Sussex County Council 100023447 (2017)

APPENDIX J

Utility Search Map (Drawing No. 14-205/009)

