

Hazard and danger zones

The hazard and danger zones are established and marked out on site by the SGN SW/2 Technician. These zones are established to protect the pipeline from any unintended damage. Encroaching on these zones can result in damage to a pipeline which can lead to fatal injury.

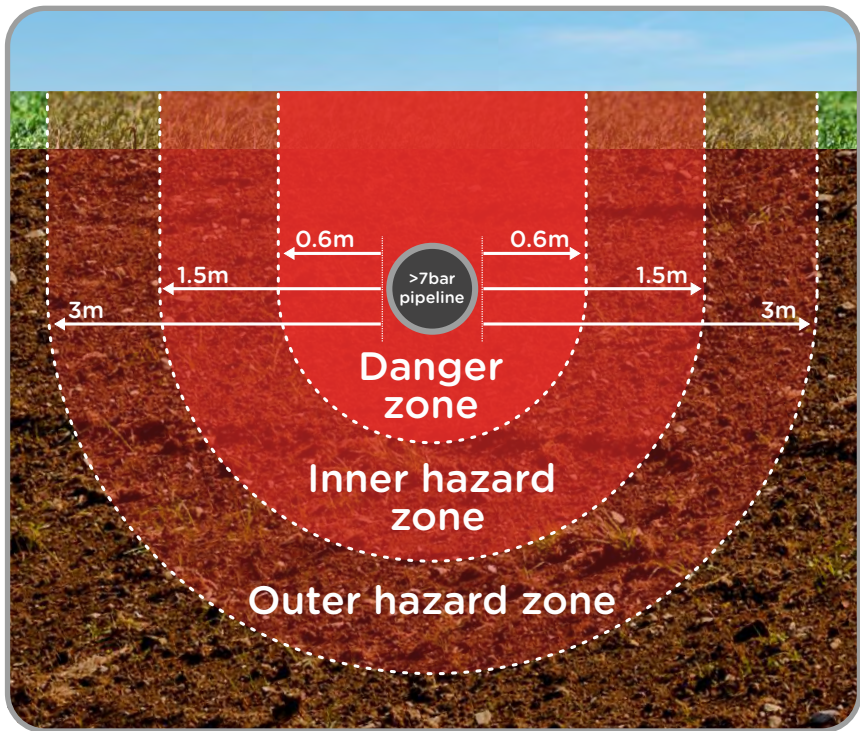


Figure 1. Cross section example hazard and danger zones

The SGN SW/2 Technician will explain these markings and zones to the controller of works (on site) to ensure they are understood prior to planning the works and confirm them to the Nominated Responsible Person/team leader on site before any work begins.

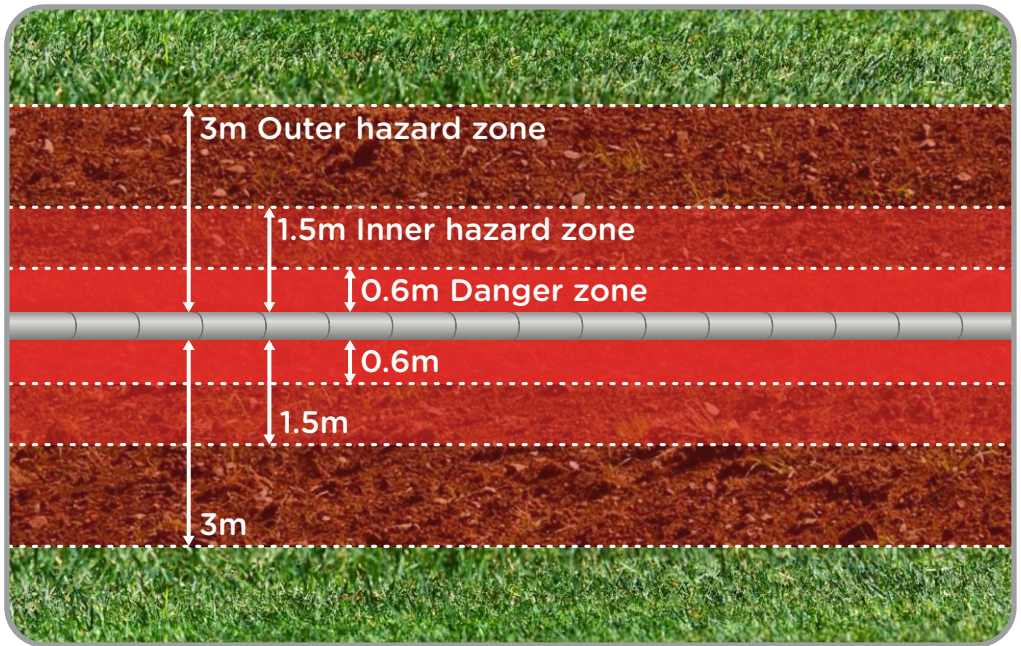


Figure 2. Aerial example of hazard and danger zones

Roles and responsibilities

Who's who and who's responsible for what:

- SGN SW/2 Technician
- Authorising Engineer
- Controller of the works
- Nominated Responsible Person

SGN SW/2 Technician

The SGN SW/2 Technician is SGN's representative and primary point of contact on site for anyone planning work near Major Accident Hazard Pipelines, the SGN SW/2 Technician's responsibilities include:

- liaising with those undertaking the works
- ensuring all pipeline records and plans have been obtained
- locating and marking the pipeline
- establishing the 'hazard zones' and 'danger zone'
- monitoring activities in the hazard and danger zones
- stopping the work if the pipeline is at risk

The SGN SW/2 Technician **must** be on site to monitor works during any of the following activities:

- all works requiring a Permit to Work
- excavation of trial holes
- top soil stripping
- use of mechanical excavators in the hazard zones
- use of powered hand tools in the inner hazard zone and danger zone
- use of vacuum excavators in the hazard and danger zones
- use of trenchless technologies in the hazard and danger zones

Authorising Engineer

- an Authorising Engineer is a highly trained and competent engineer, registered on SGN's Safe Control of Operations system, with authority to issue a Permit to Work for activities in proximity to high pressure assets
- reviews risk assessments and method statements for the planned works

Authorising Engineer cont.

- confirms the Nominated Responsible Person fully understands the method statement and Permit to Work
- issues Permit to Work to the Nominated Responsible Person on site
- **cannot authorise** mechanical excavation in the danger zone
- briefs the Nominated Responsible Person and SGN SW/2 Technician on the permitted methods of working
- **must** authorise any change to the method statement or Permit to Work

Controller of works

Representative from the principal contractor or main contractor with overall responsibility for the safe delivery of the planned works, the controller of works responsibilities include:

- providing the method statements to SGN for agreement for the planned works
- ensuring all operatives involved understand the method statements
- ensuring all operatives [including machine operators] are suitably competent and experienced for the roles they are carrying out
- ensuring suitable arrangements are in place for supervision and monitoring of the works (in addition to the role of the SGN SW/2 Technician), including works undertaken by sub-contractors
- nominating a suitable Nominated Responsible Person (if a Permit to Work is required)

Nominated Responsible Person

The Nominated Responsible Person is put forward as the representative of the third party, and approved by SGN, to receive the Permit to Work for the planned activities and with the following responsibilities:

- briefing all workers and machine operators on the safe working practices
- **must** be on site at all times while work is carried out
- **must** be in direct control of the workers and machine operators
- **must** ensure the SGN Permit to Work and agreed method statement is complied with
- **must** ensure SGN's SW/2 procedure is complied with
- **does not** have any authority to deviate or change the agreed method of working

Fittings and standpipes

High pressure gas pipelines have various fittings and connection points which are particularly vulnerable to damage. These fittings protrude from the pipeline and mechanical excavators **must not** be used within a 1.5m radius of fittings and standpipes.

Fittings and standpipes **must** only be excavated by hand excavation. A Permit to Work is required if **powered hand tools** need to be used.

Hand dug trial holes **must** be undertaken to locate and confirm the position of fittings and standpipes if a mechanical excavator is to be used within the hazard zones. An SGN SW/2 Technician **must** be on site when trial holes are dug or when any excavation work is being undertaken near to fittings and standpipes, even if a Permit to Work has been issued.

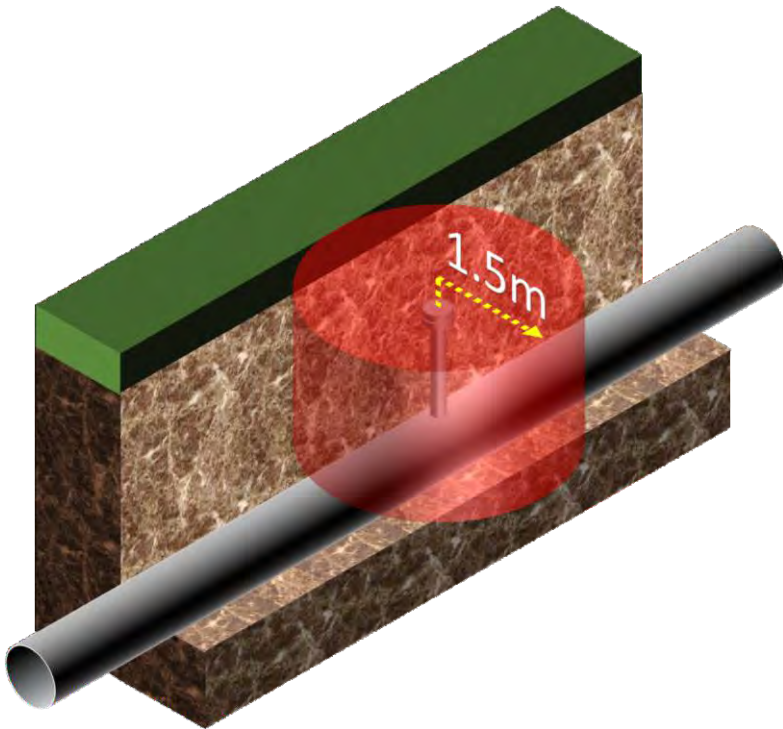


Figure 3. Minimum proximity to fittings

Permits to Work

A Permit to Work is an essential control measure for high risk activities. An SGN Permit to Work is required for the following activities:

- mechanical excavation inside the hazard zones - including backfilling
- use of powered hand tools inside the inner hazard zone and danger zone, including vibro-tampers for backfilling
- use of vacuum excavators in the hazard and danger zones
- any 'trenchless techniques' within, through or under the hazard zones
- any 'hot works' ie welding, cutting, burning within the easement
- highways surface removal in the hazard and danger zones

A Permit to Work **must** be issued:

- on site where the activity will be undertaken
- by an SGN SCO registered Authorising Engineer competent in SW/2 activities
- to the Nominated Responsible Person
- with reference to a site specific method statement

The Authorising Engineer will brief the Nominated Responsible Person and the SGN SW/2 Technician on the Permit to Work and the specific requirements of the works. The SGN SW/2 Technician and Nominated Responsible Person **must** then ensure that all those involved in the works have a clear understanding of their role and responsibilities for the duration of the work.



Pipeline location

The SGN SW/2 Technician will locate and mark the pipeline route and associated zones. Markers will be placed at 3m intervals, at all bends and extend 15m in all directions from the planned excavations site.

The SGN SW/2 Technician will regularly monitor and maintain pipeline markers, especially during the course of longer duration works or works where markers or ground paint are more likely to be disturbed.

If pipeline markers are disturbed the SGN SW/2 Technician **must** be consulted to re-establish the markers in the correct location.

Trial holes

Trial holes are used to confirm the location and depth of a pipeline. If a mechanical excavator is to be used in the hazard zones, trial holes excavations **must** be carried out. All trial holes must be hand excavated. It is the responsibility of the SGN Authorising Engineer to decide how many trial holes are required. All indicated direction and depth changes **must** all be investigated and confirmed with trial holes. All trial holes **must** be monitored by an SGN SW/2 Technician.

If the planned works are outside the hazard zones, trial holes may still be required, it is the decision of the SGN SW/2 Technician to assess the need for trial holes outside the hazard zones.

Site-specific risk assessments

All risk assessments for work near a Major Accident Hazard Pipeline must be site-specific and **must** take into account the following:

- the proximity of the planned works to the pipeline
- the size and types of powered machines
- the activity to be undertaken in close proximity to the pipeline

Risk assessments **must** be regularly reviewed and amended accordingly if:

- site conditions change
- the activity changes
- the operatives involved or the mechanical plant changes
- the works are of long duration

Specific activities

Powered hand tools

A Permit to Work is required when using powered hand tools in the inner hazard zone or the danger zone.

The permissible proximity to the pipe will be specified by the Authorising Engineer.

Top soil stripping

- SGN SW/2 Technician **must** be on site
- applies only to work site areas not discrete excavations
- **must not** be undertaken within 3.0m of fittings/standpipes - the position of these **must** be confirmed by hand excavation
- toothless buckets **must** be used
- Permit to Work is required if a depth greater than 250mm is to be removed

Mechanical excavation

- no mechanical excavation is permitted within the danger zone, with the exception of top soil stripping
- a Permit to Work is required for all mechanical excavation in the hazard zones
- the SGN SW/2 Technician **must** be on site when used in the hazard zones
- **must not** be authorised for use within 1.5m of fittings and standpipes
- **must not** reach over or across the pipeline
- **must not** pull towards the pipeline
- **must** use toothless buckets
- use minimum sized buckets
- a banksman **must** be used at all times



Mechanical assistance

Mechanical assistance is when an excavator is used to assist in removing previously excavated spoil ie hand digging and placing the material into the excavator bucket. This is to aid in excavating without allowing the excavator to intrusively remove spoil. Mechanical assistance can be permitted subject to the following requirements:

- the SGN SW/2 Technician **must** be on site to monitor all works
- a Permit to Work is required within the hazard zones
- the machine **must not** lift over the pipe
- **must not** be used near fittings and standpipes

Vacuum excavators

Vacuum excavators can be used to assist in excavating near Major Accident Hazard Pipelines subject to the following conditions:

- a Permit to Work is required within the hazard and danger zones
- the position and depth of the pipeline **must** first be confirmed hand excavated trial holes
- toothed hoses **must not** be used unless authorised by SGN

Backfilling

The SGN SW/2 Technician **must** be present for all backfilling activities. If any backfilling is carried out without the SGN SW/2 Technician present the pipe must be re-excavated to check for damage.

All backfilling operations must be fully detailed in the method statement for the works, specifically the sequence of works and the plant types to be used. Compaction plant can pose a risk to pipeline integrity and as such a minimum of 600mm of hand placed and hand packed material must be in place prior to any plant being introduced. Only lightweight compaction plant can be used initially, until a total of 900mm of evenly compacted material is in place over the pipeline. The proximity distances are measured from the top most part of the pipeline, including any fittings or connections.

A Permit to Work is required for backfilling works that involve any of the following:

- mechanical excavators assisting in the hazard and danger zones
- hand operated vibro-tampers in the inner hazard and danger zones
- vibrating rollers in the hazard and danger zones
- any lifting operations ie lifting of plant or materials into the excavation

Damage to pipelines

Any damage to a high pressure pipeline or the pipeline coating can affect its integrity and can result in immediate or delayed failure, potentially causing severe or fatal injury.

All damage to a pipeline or a pipeline coating, however minor, **must** be reported to SGN via the SGN Gas Control room (0845 073 7953) **immediately**.

All work on site should **stop immediately** and the work area **must** be evacuated. **No one must approach the site and no one must attempt to stop the leak.**

Contact details

SGN SW/2 _____
Technician name

SGN SW/2 _____
Technician phone number

Gas emergency number: 0800 111 999

Booklet no:

Appendix A

Date

I/We (Third party)

Hereby acknowledge receipt of the SGN document ‘Safe working near high pressure gas pipelines - Guidance for third parties.’

I/we confirm that we have read and understood the terms of the document and understand that non-compliance may result in damage to the pipeline in contravention of the Pipeline Safety Regulations 1996.

I/we confirm that we will contact SGN prior to any works commencing in the vicinity of a pipeline in order to plan and agree working and restrictions.

I/we hereby undertake to comply with all restrictions and advice provided by SGN prior to, during and following all planned works and to keep SGN advised of any changes, alterations or amendments to the planned works.

Signed (Third party)

Full name of signatory (please print)

Address

Witness signature

Full name of witness (please print)

Address

Place of signing



No:



Appendix (I)

Telecommunications Mapping and Correspondence



Our Ref: Ref shown on map

email: nnhc@openreach.co.uk

Date of issue shown on map

Dear Customer,

NR & SW ACT 1991 – PROPOSED WORKS AT:

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

Email Dial before you dig CBYD@openreach.co.uk

Visit the website www.openreach.co.uk/cbyd

Thank you for your request of describing the above proposals.

Enclosed are copies of our drawing marked up to show the approximate locations of BT apparatus which is present in the immediate vicinity of your works. It 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 made near to British Telecommunications plc apparatus which 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 British Telecommunications plc plant. 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 works we recommend that your plant/vehicle crossing is either resited, or apply for a budget estimate by submitting detailed plans to the above address, these will be forwarded to the appropriate department for their comments.

Please ensure you quote our reference on any future correspondence.

Yours faithfully,

Maps by email Plant Information Reply



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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

KEY TO BT SYMBOLS

DP	
Planned DP	
PCP	
Planned PCP	
Built	
Planned	
Inferred	
Building	
Kiosk	
Hatchings	

Pole	
Planned Pole	
Joint Box	
Change Of State	
Split Coupling	
Duct Tee	
Planned Box	
Manhole	
Planned Manhole	
Cabinet	
Planned Cabinet	

Other proposed plant is shown using dashed lines.

BT Symbols not listed above maybe disregarded.

Existing BT Plant may not be recorded.

Information valid at time of preparation

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BT Ref : DIK10299T

Map Reference : (centre) SU75 15607370

Easting/Northing : (centre) 475 156,107370

Issued : 30/11/2017 10:29:27

WARNING: IF PLANNED WORKS FALL INSIDE HATCHED AREA IT IS ESSENTIAL BEFORE PROCEEDING THAT YOU CONTACT THE NATIONAL NOTICE HANDLING CENTRE. PLEASE SEND E-MAIL TO: nnhc@openreach.co.uk

Maps by email Plant Information Reply



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KEY TO BT SYMBOLS

DP		Pole	
Planned DP		Planned Pole	
PCP		Joint Box	
Planned PCP		Change Of State	
Built		Split Coupling	
Planned		Duct Tee	
Inferred		Planned Box	
Building		Manhole	
Kiosk		Planned Manhole	
Hatchings		Cabinet	
		Planned Cabinet	

Other proposed plant is shown using dashed lines.
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Information valid at time of preparation

BT Ref : UGG10296L

Map Reference : (centre) SU7559407380

Easting/Northing : (centre) 475594,107380

Issued : 30/11/2017 10:29:43

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KEY TO BT SYMBOLS

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Kiosk	
Hatchings	

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Change Of State	
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Planned Box	
Manhole	
Planned Manhole	
Cabinet	
Planned Cabinet	

Other proposed plant is shown using dashed lines.
BT Symbols not listed above maybe disregarded.
Existing BT Plant may not be recorded.
Information valid at time of preparation

BT Ref : AOP10296F

Map Reference : (centre) SU7507206914

Easting/Northing : (centre) 475072,106914

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Maps by email Plant Information Reply



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Planned Cabinet	

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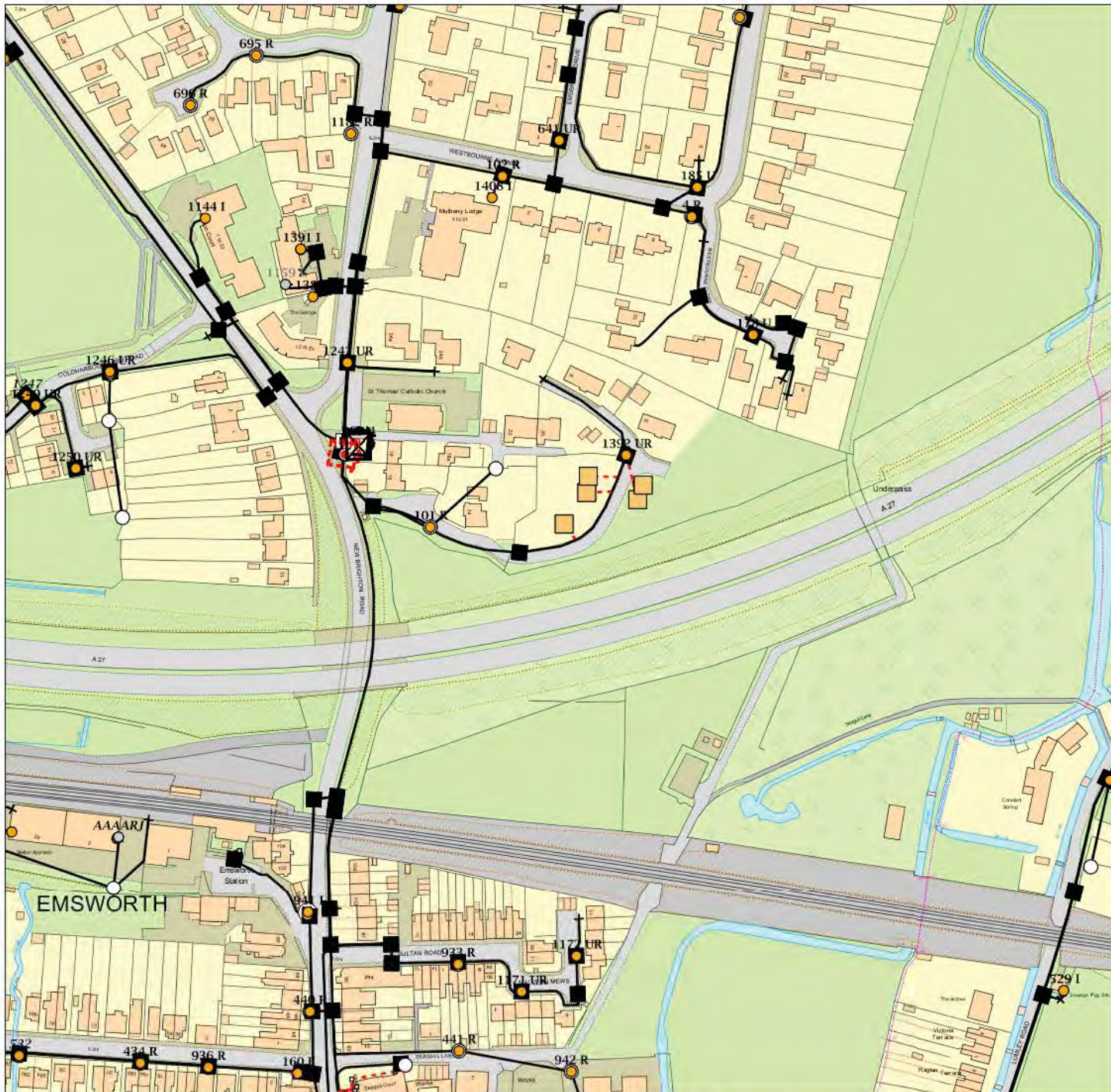
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Easting/Northing : (centre) 4755 19,106917

Issued : 30/11/2017 10:30:00

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Planned Manhole	
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Planned Cabinet	

Other proposed plant is shown using dashed lines.
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Information valid at time of preparation

BT Ref : IXO10304E

Map Reference : (centre) SU7497606443

Easting/Northing : (centre) 474976,106443

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Inferred		Planned Box	
Building		Manhole	
Kiosk		Planned Manhole	
Hatchings		Cabinet	
		Planned Cabinet	

Other proposed plant is shown using dashed lines.
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Existing BT Plant may not be recorded.
Information valid at time of preparation

BT Ref : GUR103061

Map Reference : (centre) SU7542306467

Easting/Northing : (centre) 475423,106467

Issued : 30/11/2017 10:30:26

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ATKINS CHECKED

ASH



ATKINS
The Hub, 500 Park Avenue
Aztec West
Almondsbury
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.192895
Letter Date 30.11.2017
Your Ref: 60379
Date: 04.12.2017

Dear Sir/Madam,

Enquiry Location: Land off Westbourne Avenue, Emsworth PO10 7QN

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.

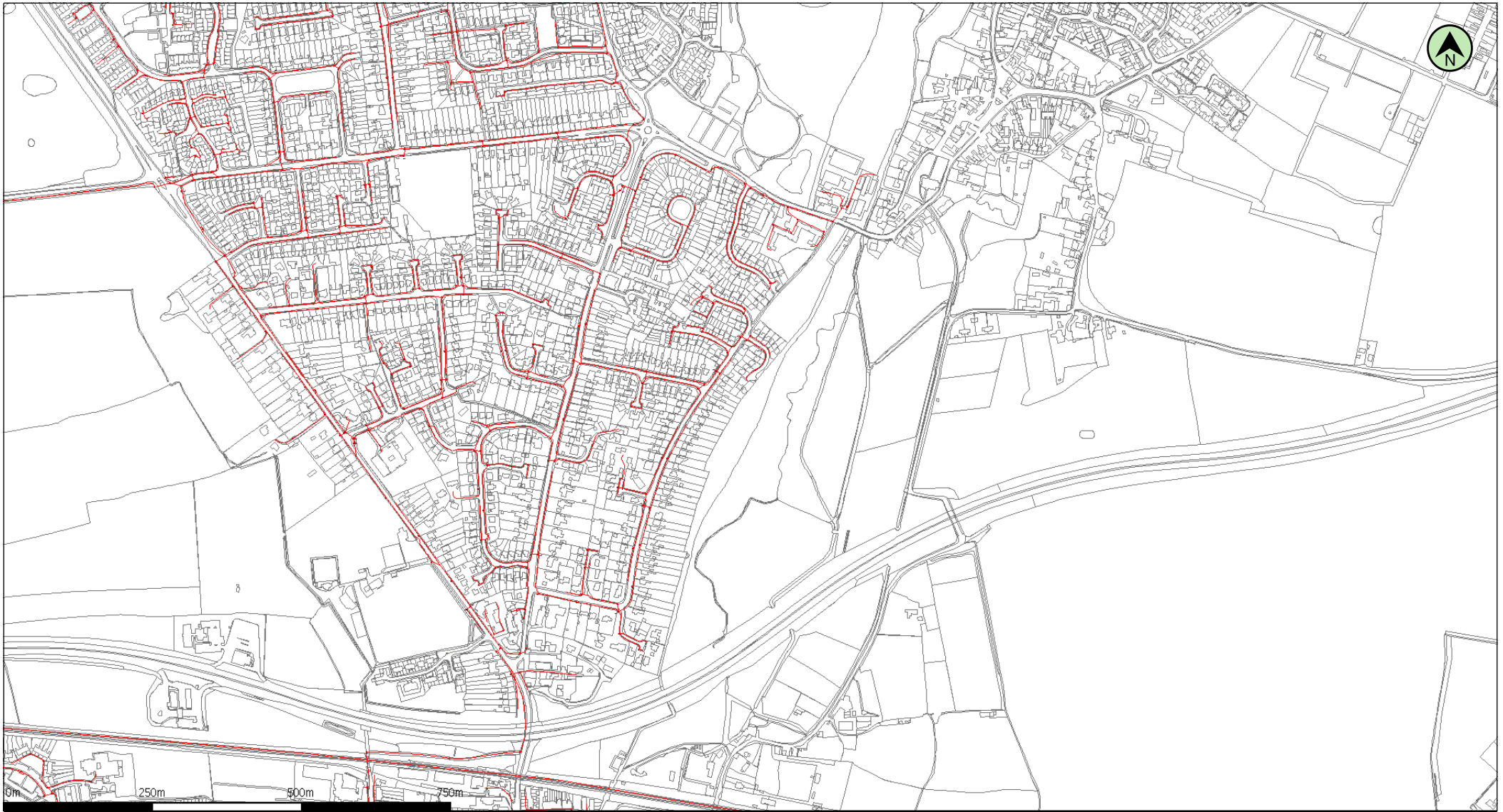
The address to send the cheque is:

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

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

Yours faithfully

National Plant Enquiries Team,



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Important Information - please read The purpose of this plan is to identify Virgin Media apparatus. We have tried to make it as accurate as possible but we cannot warrant its accuracy. In addition, we caution that within Virgin Media apparatus there may be instances where mains voltage power cables have been placed inside green, rather than black ducting. Further details can be found using the "Affected Postcodes.pdf", which can be downloaded from this website. Therefore, you must not rely solely on this plan if you are carrying out any excavation or other works in the vicinity of Virgin Media apparatus. The actual position of any underground service must be verified by cable detection equipment, etc. and established on site before any mechanical plant is used. Accordingly, unless it is due to the negligence of Virgin Media, its employees or agents, Virgin Media will not have any liability for any omissions or inaccuracies in the plan or for any loss or damage caused or arising from the use of and/or any reliance on this plan. This plan is produced by Virgin Media Limited (c) Crown copyright and database rights 2017 Ordnance Survey 100019209.

Duct, Trench



Chamber



Cabinet



stephy.jaison@virginmedia.co.uk

VM.192895



Appendix (J)

GTC quotation for gas, electric and fibre supply

GTC Ref: West/34108667/407477

**Budget Quotation for: Westwood Close, EMSWORTH, Hampshire,
PO10 7QL**



**Prepared for: Hampshire Homes Group (c/o Rogers Cory
Partnership)**

GTC Contact: Shaun Ascott

Mob: 07889 470530

Tel: 01359 240154

Date of Quotation: 27 March 2018

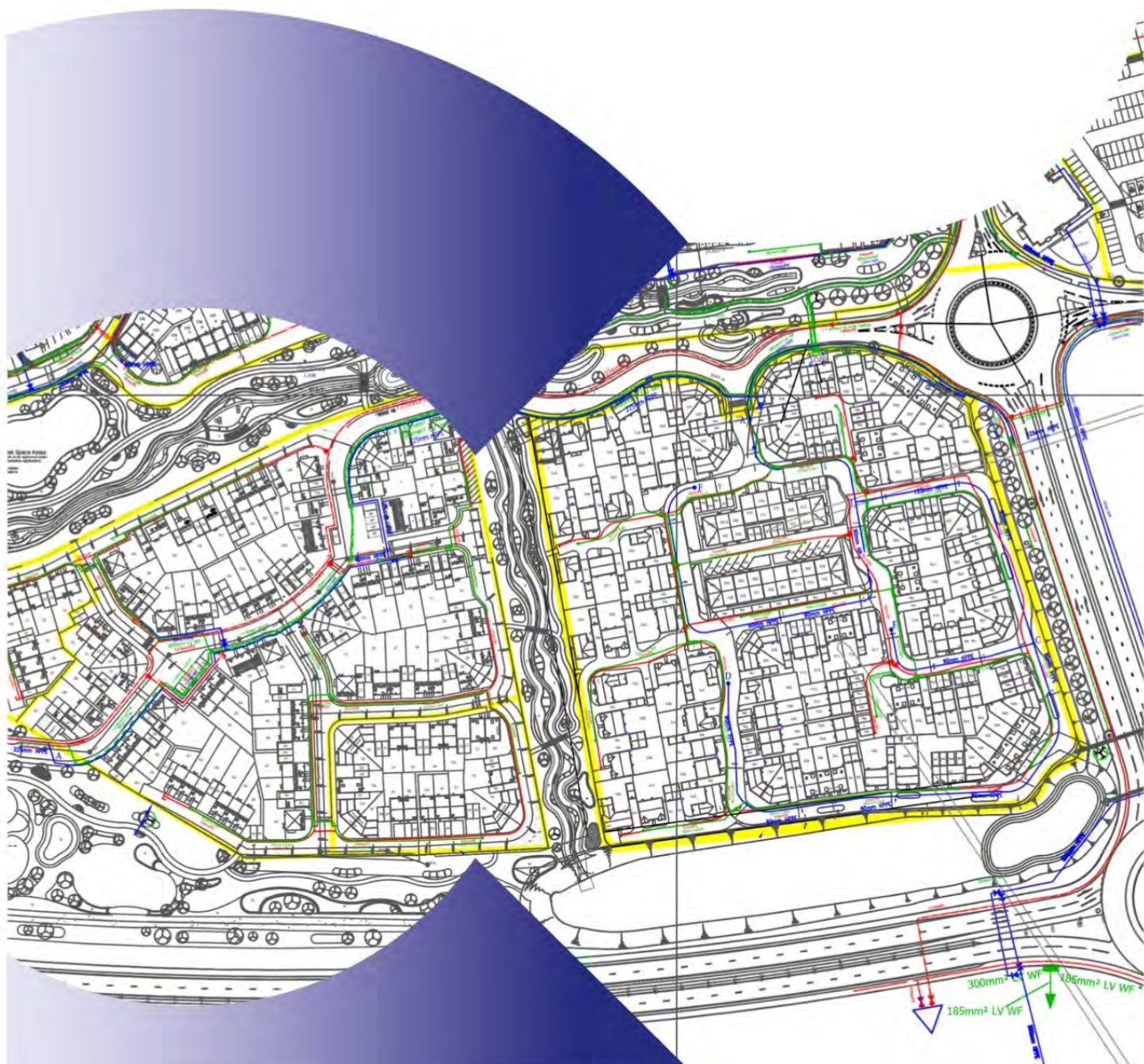
Gas



Electricity



Fibre



1.0 INTRODUCTION

Summary of Offer

Following your recent enquiry regarding the project at Westwood Close, EMSWORTH, Hampshire, PO10 7QL, we have used the information you provided GTC to produce a budget costing to meet your requirements. GTC's price to provide to provide gas, electricity & fibre infrastructure (based on the terms of offer set out in this quotation) is a contribution from Hampshire Homes Group to GTC of £38,089.56.

Breakdown of Offer

Onsite Costs

This is the cost to provide mains and services to the development within the site boundary:

On-site works	
You pay GTC	£7,003.00

Offsite Costs

These costs include any off-site costs that are required, including the costs of Upstream Network Operators (NWO), to complete the work to supply your site:

Off-Site Works	
Off-site works (GTC) – Gas:	£8,054.51
Network Operator Costs – Gas:	£0.00
Off-site works (GTC) – Electricity:	£5,403.55
Network Operator Costs – Electricity:	£3,000.00
Backhaul Connection – Fibre:	£14,628.50
TOTAL OFFSITE – You pay GTC	£31,086.56

Fibre Integrated Reception System (FIRS) Costs

This is the additional cost to provide a FIRS system to the domestic plots:

On-site works	
You pay GTC	£24,475.49

2.0 SITE DETAILS

Schedule of Domestic Plots

Property Type	1BF	2BD	2BS	2BT	3BD	3BS	4BD	Total
Gas	4	1	16	5	7	12	4	49
Electricity	4	1	16	5	7	12	4	49
Fibre	4	1	16	5	7	12	4	49

3.0 TERMS OF OFFER

Gas Terms

GTC have assumed a Low Pressure connection to feed this site.

This quotation includes the excavation and reinstatement costs in the public highway which will be carried out by GTC from the point of connection to the site. GTC have assumed a connection off the GDN/iGT 63mm PE Low Pressure main adjacent to the site entrance and have allowed for 14 metres off-site work (14m road) from the connection point to the site entrance.

The Developer shall be responsible for all on-site excavation and reinstatement.

GTC have assumed that any existing mains on-site will be abandoned. It is the responsibility of the Developer to arrange works with the gas transporter.

GTC have assumed there are no environmental issues that may impact on the materials or methods of installation of its proposed networks.

GTC have assumed all mains and services feeding 49 properties will be in trenches pre-excavated by the Developer.

GTC's mains will typically be laid down one side of the estate roads to minimise on road crossings, service lengths and mains lengths.

This quotation is based on smart meters in cavity meter boxes.

This quotation is based on all smart meters at the properties being installed by GTC (or its subcontractor) and owned by GTC Pipelines Limited. If the Developer wishes to appoint a third party to install and/or own any gas meters at any of the properties, it shall obtain GTC's prior written consent to do so and, in such circumstances, GTC reserves the right to amend the amounts payable under this quotation accordingly.

GTC's Technical Guidelines for Gas can be found here: <http://www.gtc-uk.co.uk/technical-guidelines>

Electricity Terms

This quotation includes indicative electric point of connection (PoC) and off-site costs. Costs associated with the PoC are therefore subject to change.

However, the PoC and non contestable charges will be the same regardless of who is to own the network. GTC have assumed a Low Voltage connection due to the size of the site. This quotation includes the excavation and reinstatement costs in the public highway which will be carried out by GTC from the point of connection to the site. GTC have assumed a connection adjacent to the site entrance and GTC have allowed for 3 metres of off-site work (3m footpath).

Diversions or abandonment works may be required and are excluded from GTC's quote. The details can be obtained by contacting the upstream DNO.

The Developer shall be responsible for all on-site excavation and reinstatement.

GTC have assumed all mains and services feeding 49 properties will be in trenches pre-excavated by the Developer.

GTC's mains will typically be laid down one side of the estate roads to minimise on road crossings, service lengths and mains lengths. This quote does not include ducting as this is the responsibility of the Developer to install suitable ducts and jointing pits at the Developers cost to GTC specifications.

GTC's quote is based on 49 plots having gas heating.

GTC have calculated the total load for the site to be 85kVA.

GTC's quote is 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 will be responsible for establishing a metering location in accordance with GTC standards (GE-TGI-IG-0015), details of which will need to be confirmed by the Developer.

GTC's quotation excludes meter boxes and hockey sticks. GTC can supply these at an additional charge of £20.60 each for standard meter boxes.

Based on the information you have provided GTC have not included for any lift motors, pumping stations or other disturbing electric loads (such as welders, motors, heat pumps or air conditioning equipment) in GTC's quotation.

GTC's quotation excludes the cost of Temporary Builders Supply (TBS). The indicative cost to connect this is £1,500, this cost assumes the Developer shall be responsible for all excavation and reinstatement; the Developer will provide a weatherproof lockable box/kiosk with suitable internal space to accommodate the meter board the meter location less than 25m from GTC's installed and energised mains. This price includes for the disconnection of the temporary supply upon request.

GTC's quotation excludes the cost to connect adoptable street lighting columns. GTC can connect these for an additional charge, the current price for this work is £275 per column. This cost includes the supply and lay of 9m of service cable between GTC's existing Low Voltage (LV) mains and the street lights, in this cost GTC have assumed you will provide ducting and excavation to GTC specifications. Prior to the energisation of the street lights you will need to have appointed an electricity supplier for the supply of the street lights. Following the first energisation the terms of connection will be as set out in the National Terms of Connection or in a separate agreement between GTC and yourself.

GTC's Technical Guidelines for Electricity can be found here: <http://www.gtc-uk.co.uk/technical-guidelines>

Fibre Terms

This quotation includes any off-site excavation and reinstatement works required to be completed a connection from the on-site fibre duct network on the development at the site entrance to the appointed Backhaul Provider. These works will be carried out by GTC.

This quotation is based on the Developer installing any on-site duct network where required, construction of any on-site communication chambers where required, all on-site excavation and reinstatement works required to support the fibre network infrastructure, any on-site civils associated with the housing of active INGN fibre network equipment within the On Site Convergence Point (OSCP) and preparation within the plots to ensure a plot is ready to receive a fibre service. GTC will liaise with you 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).

To ensure that the homeowners moving into their new property can enjoy the maximum benefit from GTC's Ultra-Fast Fibre Optic Distribution Network, GTC strongly recommend the Developer follows the minimum in-home technical requirements as specified within the appropriate Fibre Technical Guidelines.

This offer includes the option of a Fibre Integrated Reception System (FIRS). If selected, a FIRS signal survey will be performed following acceptance of the proposal to finalise the positioning of the aerials and dish. The

FIRS aerials and dish will 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 OSCP 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 you will need to seek the 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 INGN to inspect, maintain, adjust and repair.

The Developer will need to ensure each plot is correctly wired to ensure a plot is ready to receive a FIRS service. Details on all in home requirements and all associated on-site build requirements can be found in the GTC FIRS Technical Standards GF-CIC-ES-0059.

GTC's Technical Guidelines for Fibre and FIRS can be found here: <http://www.gtc-uk.co.uk/technical-guidelines>

4.0 CONFIDENTIALITY

This quotation and associated documentation is confidential between GTC, Hampshire Homes Group and their associated parties for this project. It contains commercially sensitive information and should not be divulged to any other party without written permission from GTC.

Should you be successful in obtaining and developing this site, GTC will be pleased to supply a firm quotation. Please return a detailed site plan and a completed quotation request form. GTC trust that this budget costing will be acceptable and look forward to receiving your instructions.

5.0 CONTACT DETAILS

Should you require further details please do not hesitate to contact your GTC Sales Contact, Shaun Ascott (07889 470530) or the Sales Support Team (01359 240154) to discuss further.

Appendix (K)

EPL&R quotation for gas supply

Date: 23/03/2018
EPL&R Reference: 18/Q/7039



Rogers Cory Partnership Ltd
The Old School
Old School Road
Hook
Hampshire
RG27 9NJ

Unit 3
Netherfield Lane
Stanstead Abbots
Hertfordshire
SG12 8HE

Tel: 01276 415747
Website: eplr.co.uk
Email: newprojects@eplr.co.uk

BUDGET QUOTATION

Project Address: Hampshire Farm, Elms Walk, Emsworth, PO10 7QL

Dear Rachel,

Thank you for your recent enquiry for provision of gas mains, services and metering to your development. We have pleasure in submitting our bespoke quotation based on the information supplied within your request.

Subject to the enclosed terms and conditions EPL&R Limited will supply and install the gas infrastructure to the 49 dwellings for:

Customer contribution of £ 14,217.61

(Fourteen Thousand, Two Hundred and Seventeen pounds and Sixty-One pence)

Please check that the details in this quotation are in accordance with your requirements.

Should you need to discuss the quotation in more detail, please do not hesitate to speak to us via the contact details supplied on this letter.

The Registered Office of Express Pipe Laying & Repairs Limited is Unit 3, Netherfield Lane, Stanstead Abbots, Herts SG12 8HE
Registered in England & Wales No. 04135367
VAT No. 709 1342 51



Your Requirements

This quotation has been compiled using the information provided within your request. When comparing our quotation please be aware that it is firm with no hidden charges and includes:

-  Supply and fit of 49 domestic Smart meters
-  Supply of 49 domestic meter boxes
-  Cost of the connection to the existing main
-  Traffic management & road opening notices
-  Offsite excavation & reinstatement
-  All services & site mains
-  Allowance for a single gas design submission has been included within the quote. If a re-design is required at any stage throughout the project then this will then constitute a variation and will incur additional costs to yourselves
-  Project Management & first class delivery

Quotation Assumptions

Connection to Existing Network & Off Site Works

This quotation is based upon one connection being made to the SGN main in Westwood Close, at grid reference E: 475250, N: 106986.

Any costs for the reinforcement of the existing gas network, unless specified in the quotation, have not been included. Should reinforcement work be necessary by the Network Owner then this work content and any cost associated with it may constitute a variation to this quotation.

This quotation assumes that the route from the connection point onto the existing network to the site boundary is of typical construction without any obstacles such as acute changes in level, Sewer's or other utilities, etc. and that the proposed route is all within Local Authority Highways adopted land.

EPL&R Ltd will carry out any necessary excavation and permanent reinstatement on Local Authority Highways adopted land, which includes only the permanent reinstatement of the area(s) excavated for the installation of the mains and/or service pipe, unless specified in the quotation. Any areas that are outside of the Local Authority Highways adopted land will be temporary reinstated.

Where applicable, the quotation includes the application for a highways licence to excavate and enforce a single lane occupation using standard Chapter 8 signing, lighting, and guarding.

In line with the Traffic Management Act and associated Local Authority charges, this project may be subject to council traffic management charges. The Local Authority will only carry out their assessment after we have received your acceptance of this quotation. A variation reflecting any charge will be issued if it is applicable. Additional council charges for traffic management are not unique to EPL&R and will be enforced with all service providers. These charges may include, but are not limited to, road closures, lane rental, traffic management plans, and parking bay suspensions.

Houses

The supply to each house will terminate in an external cavity wall meter box or wall mounted universal meter box of a type approved by EPL&R.

All services are to be the shortest route, perpendicular to the main and must also only run within the boundary of the property they supply.

Flats

The supply to each flat will terminate in an external cavity wall meter box or wall mounted universal meter box of a type approved by EPL&R at ground level. You will be responsible for installing the pipework from the meter box to each appropriate flat.

All services are to be the shortest route, perpendicular to the main and must also only run within the boundary of the property they supply.

Domestic Meter Boxes

The universal meter box/cavity wall mounted meter box are the preferred options of EPL&R. We are no longer able to fit ground mounted meter boxes due to problems such as water ingress.

This quotation assumes that all plots are built using standard construction methods. Meter boxes must be fixed to the external wall of the property and alternative methods of construction may impact the suitability of these meter boxes. If any plots are built using any alternative methods, this quotation may be subject to a variation.



Universal Meter Box



Cavity Meter Box

Low Pressure

EPL&R domestic universal gas meter boxes shall be installed 75mm above ground level and no closer than 150mm from cavity wall air bricks.

The meter boxes must be located at the front of the building or within 2m of the front of the property on the side wall. If the meter box is to be located along the side wall of the property, the meter box type must be a cavity meter box.

Domestic Meters and Beyond

We have provided you with an offer that includes domestic Smart type meters.

You will be responsible for arranging the installation of the outlet pipework from each meter to the appropriate property via a Gas Safe Registered Contractor.

With multiple meter positions we will only fit the meter once the installation pipework is complete in order to identify which property it feeds.

With each supply we will leave the outlet of the meter capped with the meter valve in the off position, such that your Gas Safe Registered contractor can connect, test and energise the installation.

If the meters are to be installed by others, then the value of this quotation will be affected and we will need to provide a revised quotation.

Future Loads

The design and costing does not allow for any future development or phases.

Standard Pressure Information

Please note that this quotation is based upon the installation of a Low Pressure infrastructure with a minimum pressure of **19.5 mbar** at the customer's Emergency Control Valve (ECV) with a typical load profile applied.

If a higher pressure is required which necessitates the installation of boosters (the installation of which is the responsibility of the client) or if an "Atypical" demand is required (An "Atypical" demand is a demand with a non-typical seasonal and/or daily profile) it is the customers legal responsibility to notify EPL&R (who will notify the network owner).

The customer must also ensure that any equipment they install downstream of the meter, but connected to the gas infrastructure is done so in accordance with all appropriate legislation e.g. IGE/UP/6 & IGE/UP/2, etc. ensuring that there are adequate safeguards in place to prevent any adverse effects on the meter and upstream pipe-work e.g. Over pressurisation.

If boosters, etc. or Atypical demands are to be used then this may result in the need to redesign or reanalyse the proposed design/installation which may require the up-sizing of the infrastructure or the need for a suitable "Ramp Rate" to be applied and as such additional delays and costs could be incurred.

EPL&R reserves the right to withdraw or amend this quotation at any stage, including post-acceptance.

Yours sincerely,

KULDEEP SUNNER

Email: Kuldeep.Sunner@eplr.co.uk

Tel: 07788 310527

Rev	Date	Rev	Author	Checked
1	06/02/18	1	James Potter	JP

SCHEDULE OF ACCOMMODATION

Affordable Housing 31%

1No. Lincoln	3Bed 94m ² (1011 ftsq)
3No. Wilson	3Bed 94m ² (1011 ftsq)
7No. Windom	2Bed 71m ² (767 ftsq)
4No. Hial	1Bed 52m ² (555 ftsq)
SUB TOTAL: 15 UNITS	
3 Beds: 4	(27%)
2 Beds: 7	(46%)
1 Beds: 4	(27%)

Private Housing 69%

2No. Ingram	4Bed 130m ² (1400 ftsq)
2No. Evans	4Bed 99m ² (1066 ftsq)
5No. Lincoln	3Bed 94m ² (1011 ftsq)
5No. Wilson	3Bed 94m ² (1011 ftsq)
5No. Turner	3Bed 93m ² (1001 ftsq)
15No. Windom	2Bed 71m ² (767 ftsq)
SUB TOTAL: 34 UNITS	
4 Beds: 4	(12%)
3 Beds: 15	(44%)
2 Beds: 15	(44%)

TOTAL UNITS: 49

ALLOCATED PARKING SPACES: 101

VISITORS PARKING SPACES: 20

TOTAL CAR PARKING SPACES: 121



NTS | Not For Construction.

1:500 0 5 10 15 20 25m



Project	HOUSING AT ENS WALK EMSWORTH PO10 7GL	Drawing	SITE CONSTRAINTS LAYOUT	Rev	E
Client	HAMPSHIRE HOMES	Drawing Number	17017-PA-001		
Scale	PLANNING				
Scale	1:500	Drawn by	A1		
Author	JP	Checked	RR	Date	14/07/17

**JAMES POTTER
ASSOCIATES**

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