

**Contact Us**  
**SGN Safety Admin Team:**  
 0800 912 1722  
**Email:**  
 plantlocation@sgn.co.uk

Date Requested: 21/02/2024  
 Job Reference: 32534883  
 Site Location: 533548 137581  
 Requested by: Miss Tara McCallion  
 Your Scheme/Reference: Land west of Crawley Down  
 Scale: 1:1000 (When plotted at A3)

This plan shows the location of those pipes owned by Scotia Gas Networks (SGN) by virtue of being a licensed Gas Transporter (GT). Gas pipes owned by other GTs or third parties may also be present in this area but are not shown on this plan. Information with regard to such pipes should be obtained from the relevant owners. No warranties are given with regard to the accuracy of the information shown on this plan. Service pipes, valves, siphons, sub-connections etc. are not shown but their presence should be anticipated. You should be aware that a small percentage of our pipes/assets may be undergoing review and will temporarily be highlighted in yellow. If your proposed works are close to one of these pipes, you should contact the SGN Safety Admin Team on 0800 912 1722 for advice. No liability of any kind whatsoever is accepted by SGN or its agents, servants or sub-contractors for any error or omission contained herein. Safe digging practices, in accordance with HS (G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that plant location information is provided to all persons (whether direct labour or sub-contractors) working for you on or near gas apparatus. Information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

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

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

Some Examples Of Plant Items

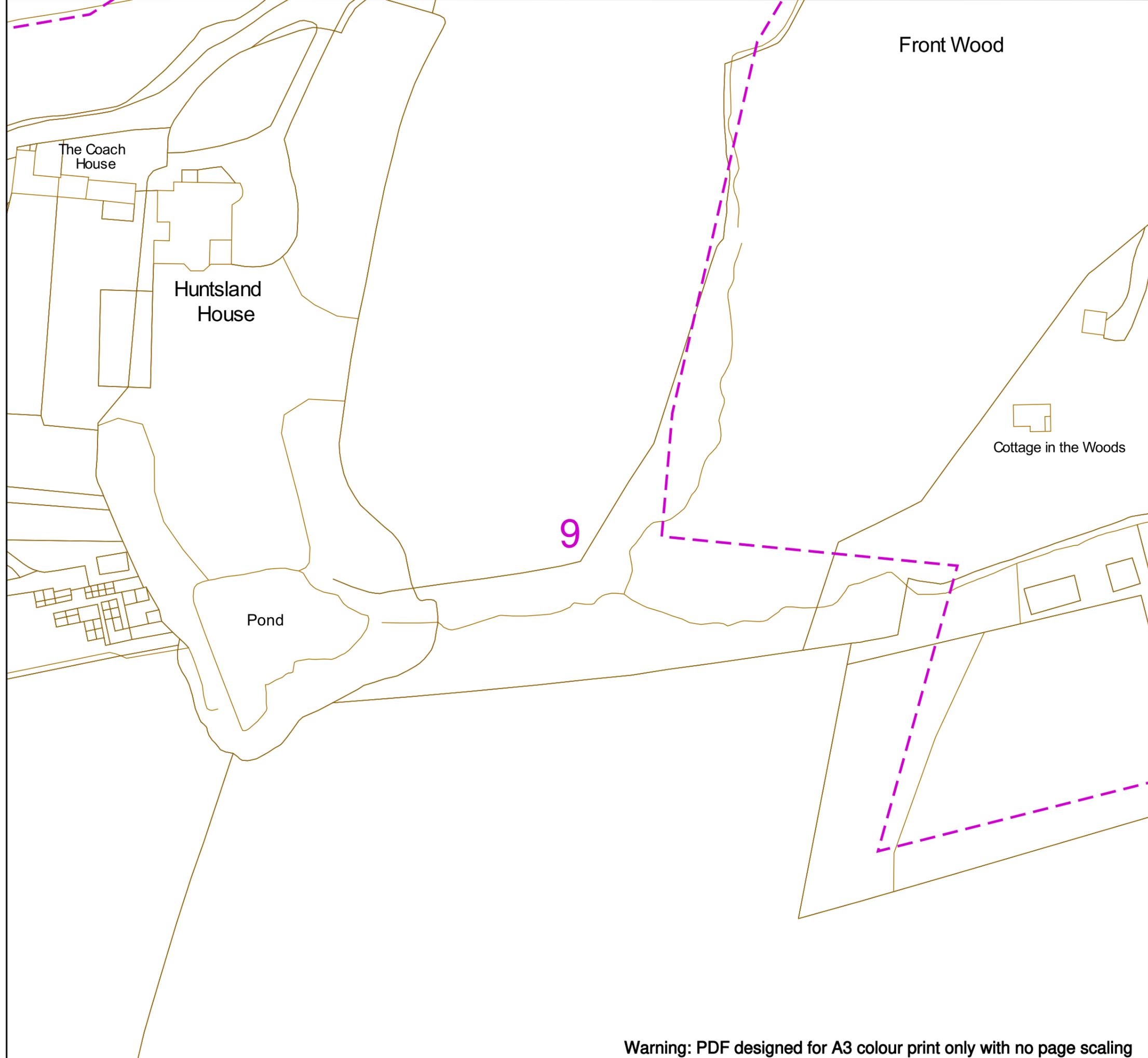
|       |  |        |  |                |  |                 |  |                 |  |
|-------|--|--------|--|----------------|--|-----------------|--|-----------------|--|
| Valve |  | Syphon |  | Depth of Cover |  | Diameter Change |  | Material Change |  |
|-------|--|--------|--|----------------|--|-----------------|--|-----------------|--|

Digsite: Line: Area:



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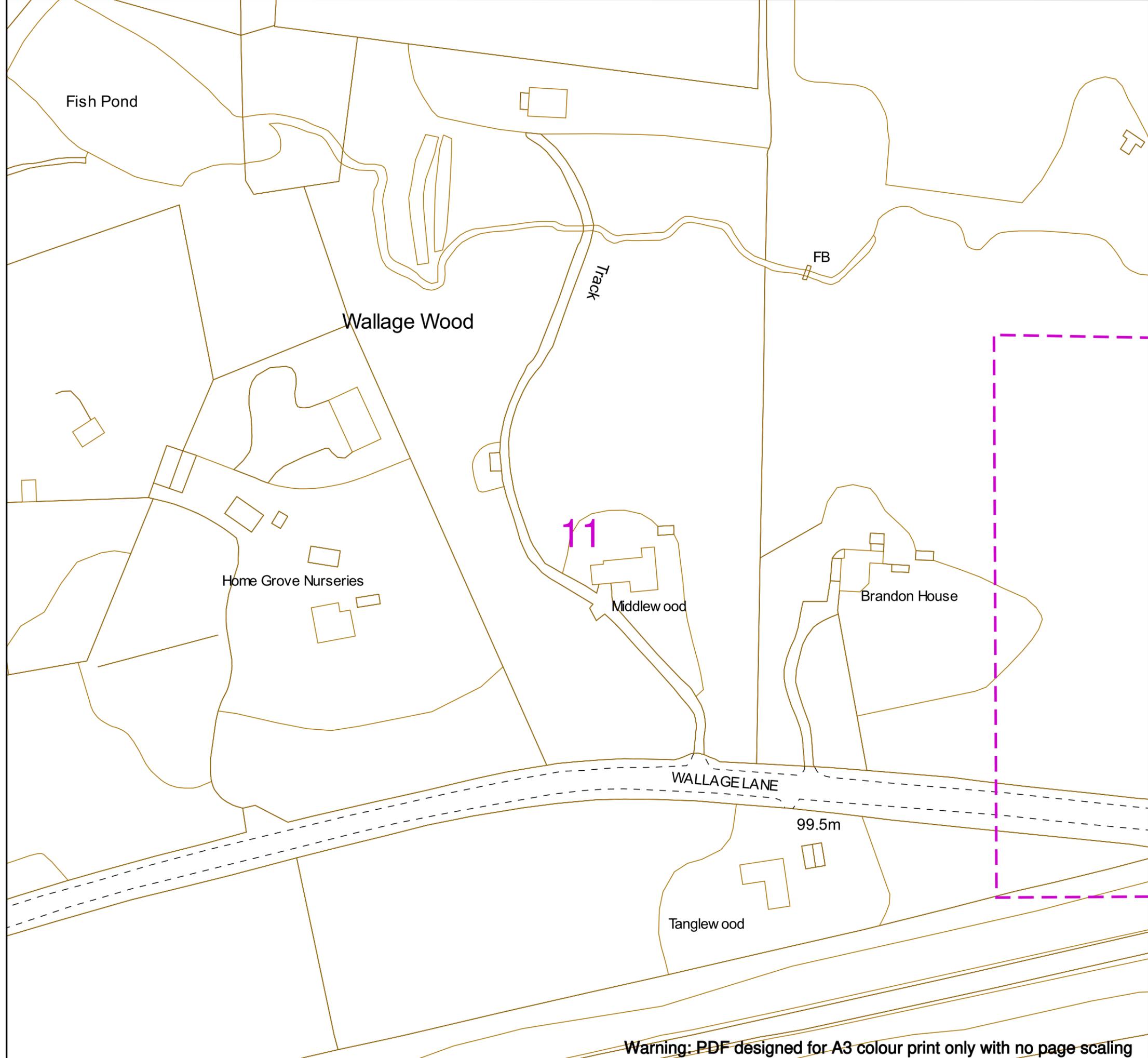
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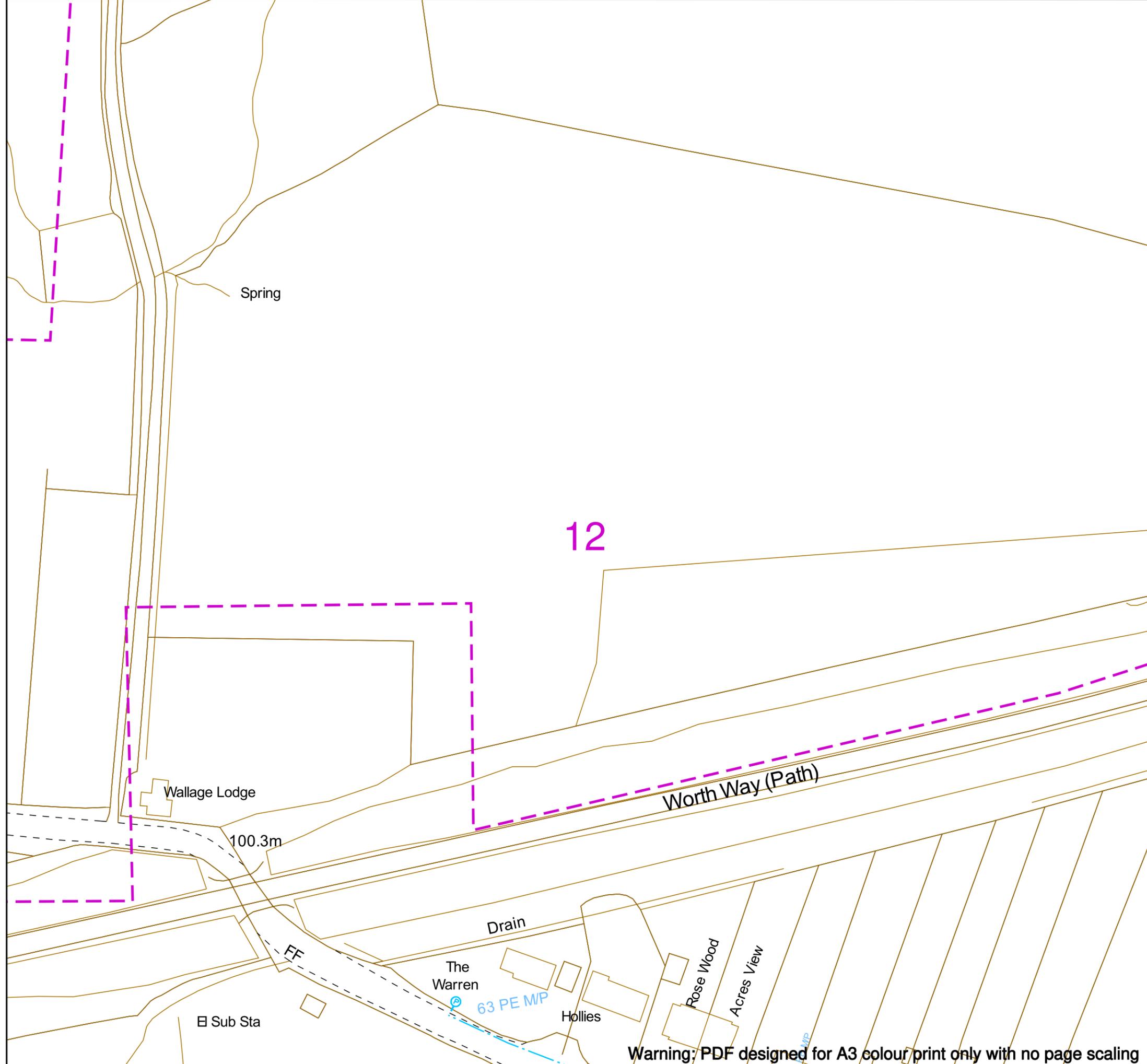
Some Examples Of Plant Items

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Some Examples Of Plant Items

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Low Pressure Mains   
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Intermediate Pressure Mains   
High Pressure Mains 

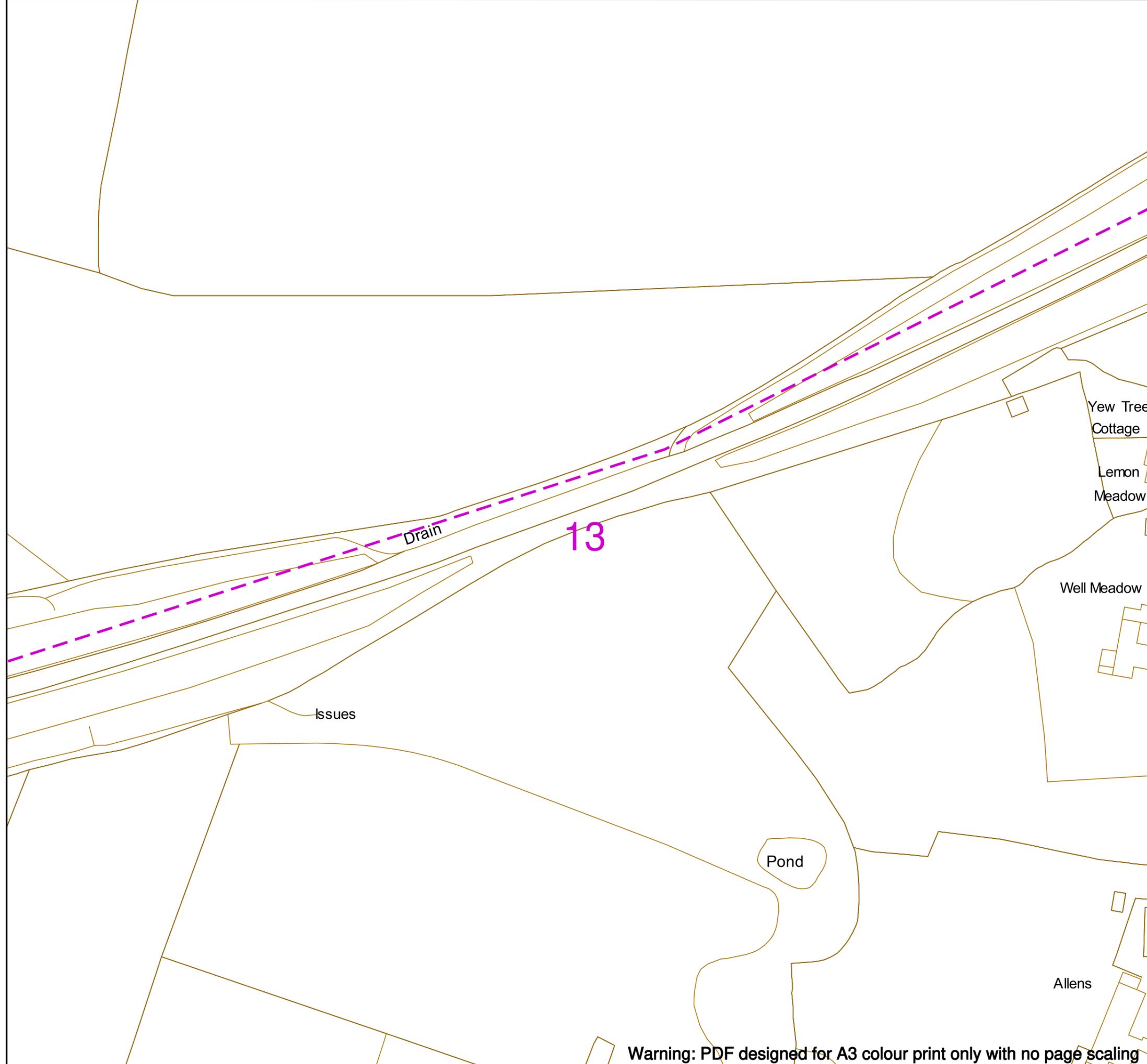
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Some Examples Of Plant Items  
Valve  Syphon  Depth of Cover  Diameter Change  Material Change 

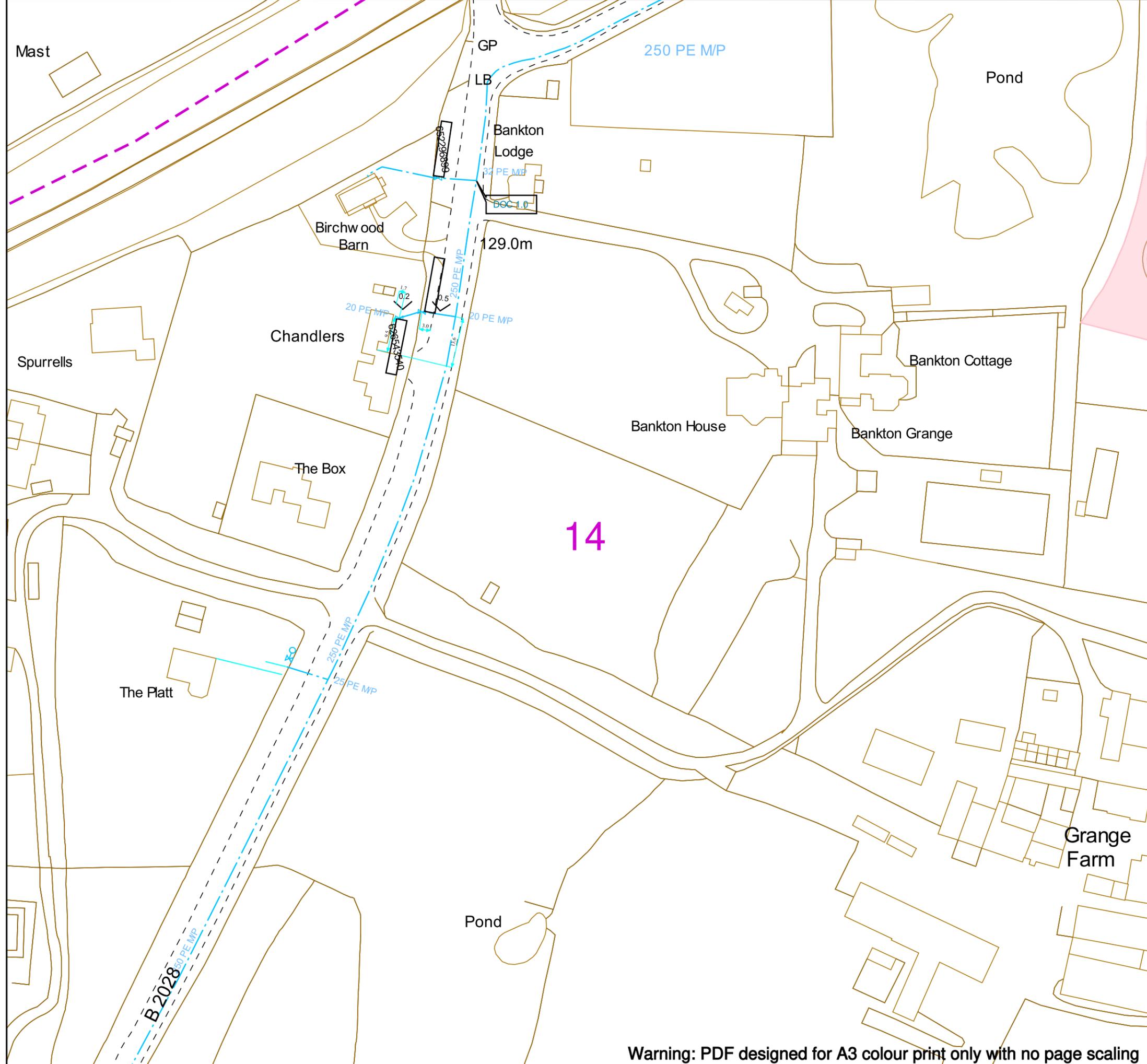
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Map Symbols

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



# SGN

Your gas. Our network.

## Dig safely

Measures to avoid injury  
and damage to gas pipes



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

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

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

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

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

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

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

## In a gas emergency

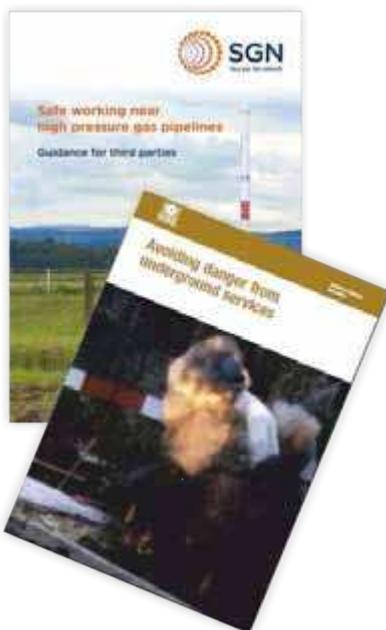
If you cause a gas leak or suspect a main or service pipe or equipment is leaking, you **MUST** take the following emergency actions immediately:

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

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

### Additional reference material

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





# Making an enquiry for gas mains or services maps

Please visit our **Dig safely** pages on [sgn.co.uk](http://sgn.co.uk) for plant protection information and links to our online mapping system and other associated information and guidance.

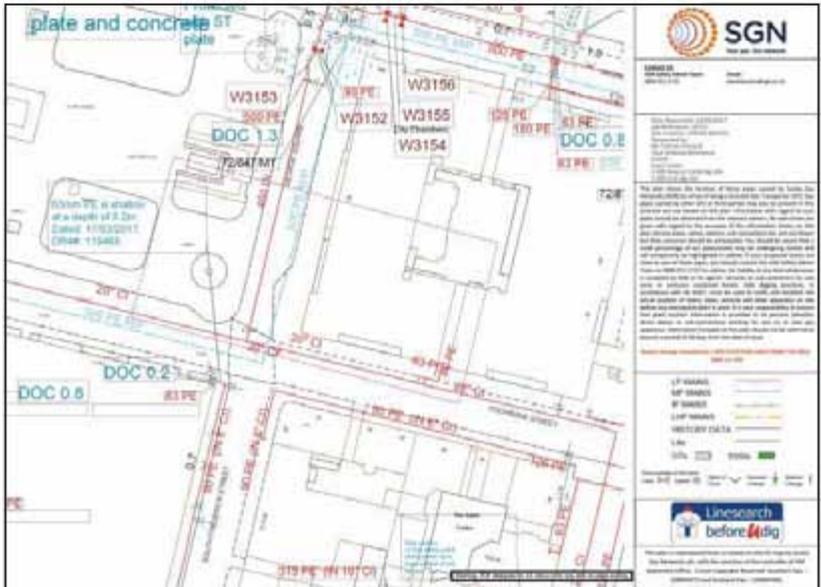
Our simple and easy to use online mapping system is available 24/7, 365 days a year.

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

## What you're likely to be sent

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

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



Example of a gas map

Note: Service pipes are not shown on our maps

# When working near our gas mains and services

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## 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.

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## Financial

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

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

## HSE

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

## Minimum safe working distances

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

## Surface boxes and manholes

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

## Deep excavations

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



## Crossing our mains or services

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

## Exposed plant

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

## Hot work

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

## Backfilling

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

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

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

## Access

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





## Mechanical excavation

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

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

# Major accident hazard pipelines

## High pressure pipeline

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



Pipeline markers

## High pressure

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

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



## Wind turbines

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



# Tree planting

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

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

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

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



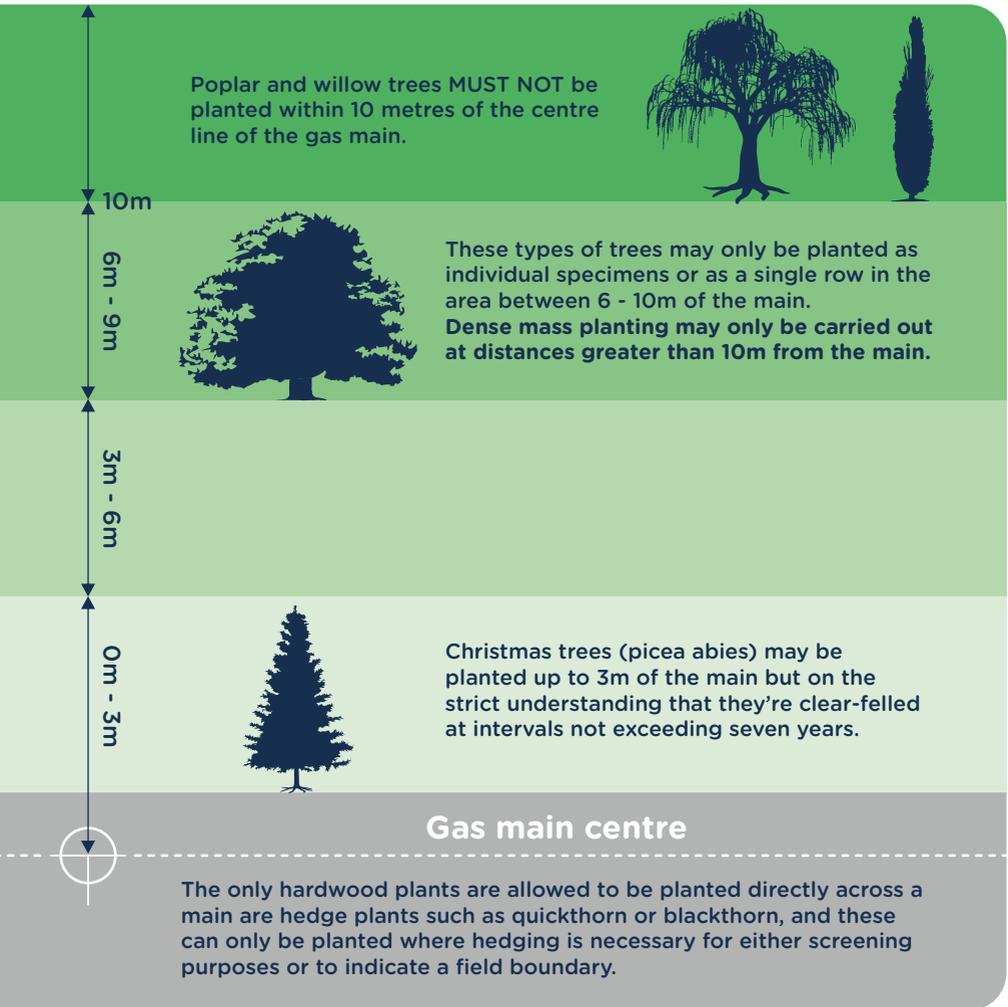
In cases where screening is required, the following are shallow rooting and may be planted close to the gas mains and services: blackthorn, broom, cotoneaster, elder, hazel, laurel, quickthorn, privet, snowberry and most ornamental shrubs.

## Gas main centre

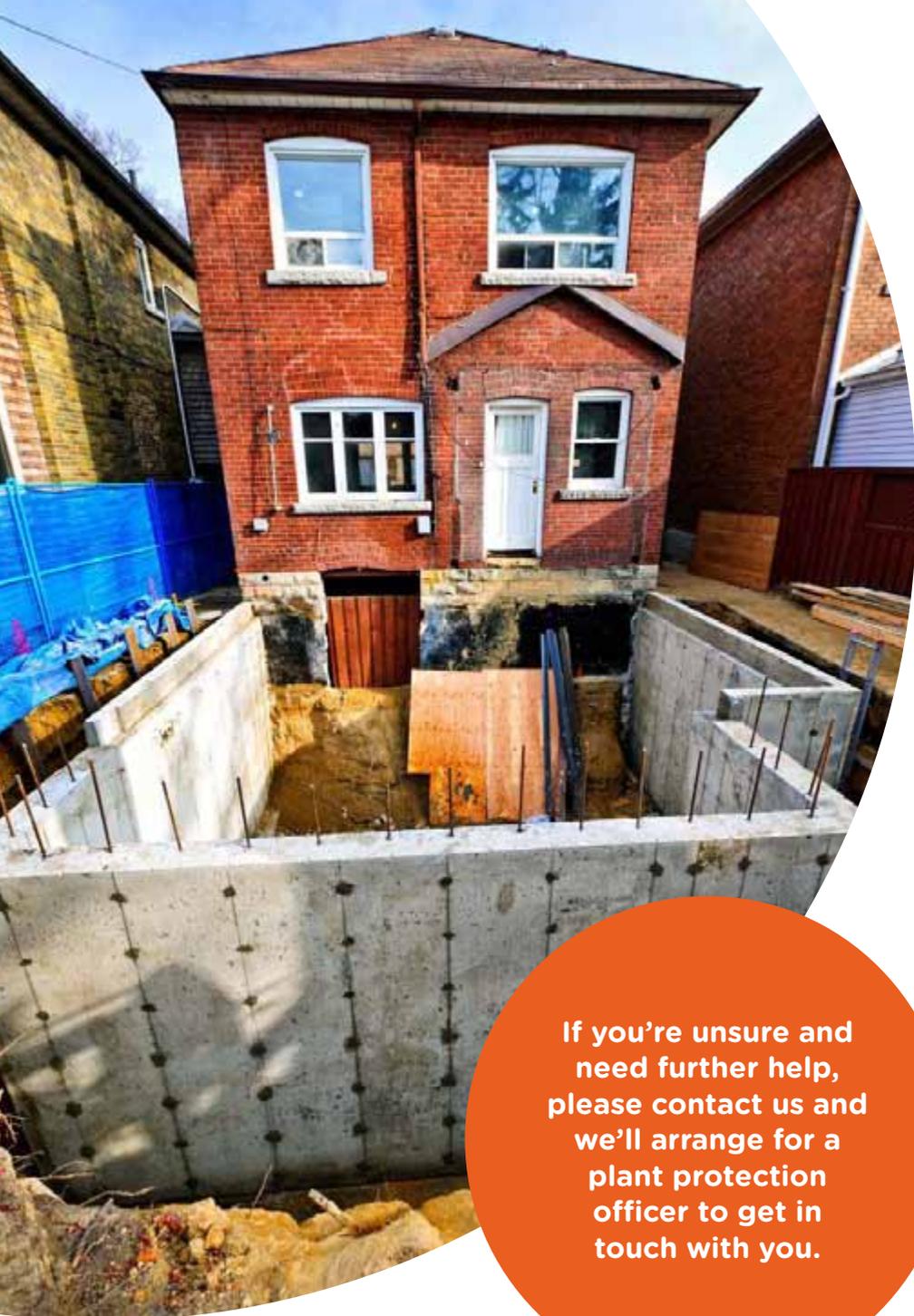
Raspberries, gooseberries and blackcurrants may be planted on the gas main, but a four metre strip, centred on the main, **MUST** be left clear at all times.

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

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



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

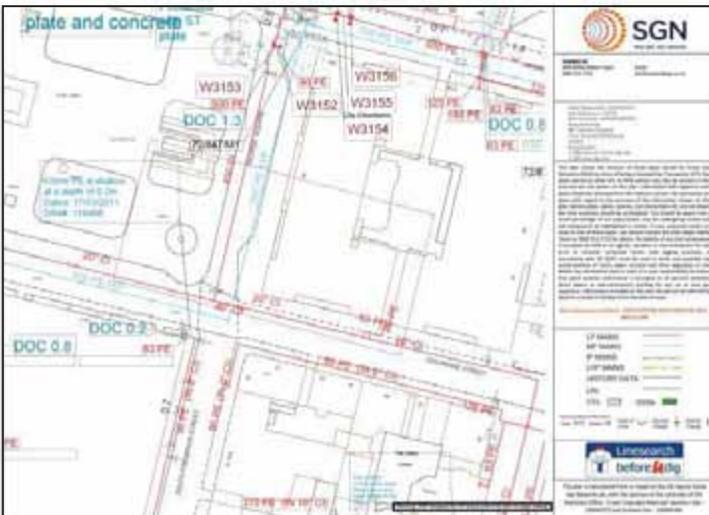


**If you're unsure and need further help, please contact us and we'll arrange for a plant protection officer to get in touch with you.**

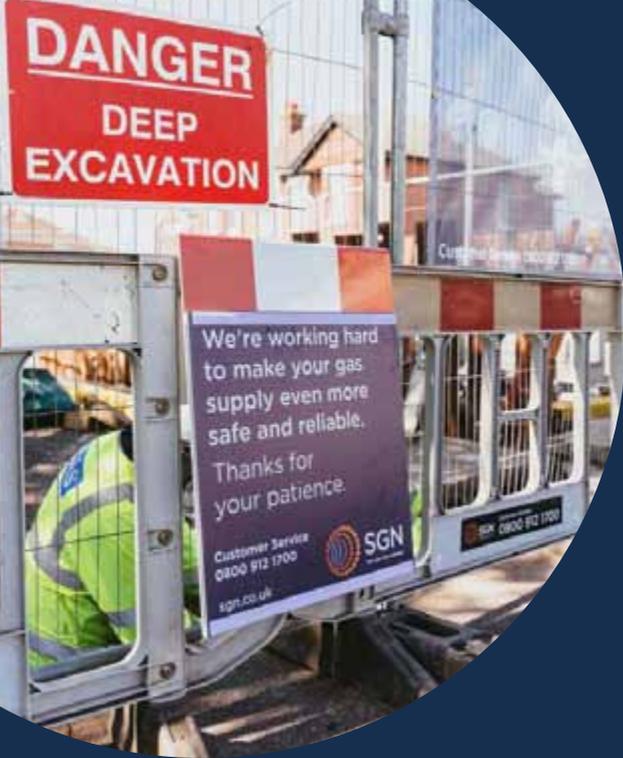
# Gas services/work in gardens

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

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



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



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



Visit our **Dig safely** pages on [sgn.co.uk](https://www.sgn.co.uk)



**0800 912 1722** \*

\*All calls are recorded and may be monitored



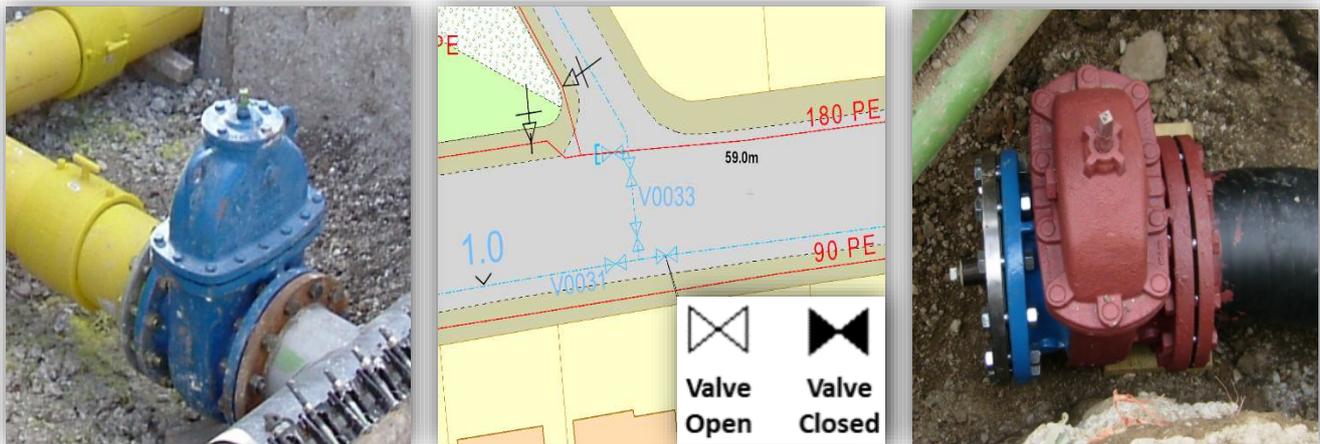
## Guidance when undertaking work near gas valves in our network areas

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

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

## Identifying gas valves

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



## What should you do?

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

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

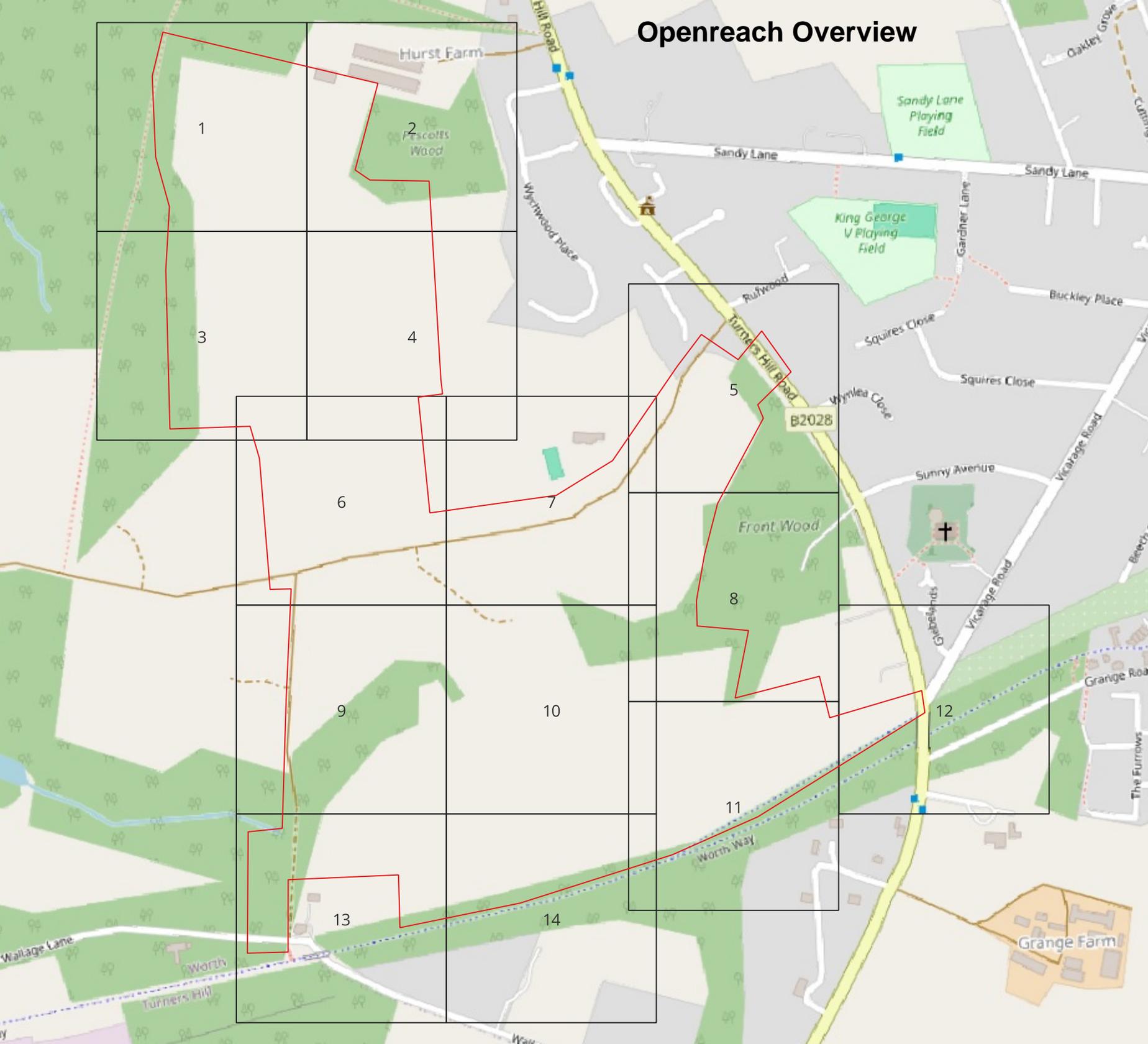
## Contact details

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

Safety Admin Team: **0800 912 1722**  
[plantlocation@sgn.co.uk](mailto:plantlocation@sgn.co.uk)

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

# Openreach Overview



# Maps by email Plant Information Reply



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### 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

## KEY TO BT SYMBOLS

|             | <i>Planned</i>     | <i>Live</i>     | Change Of State  | +                 | Hatchings |  |
|-------------|--------------------|-----------------|--|-------------------|-----------|--|
| PCP         |                    |                 | Split Coupling   | ×                 | Built     |  |
| Pole        |                    |                 | Duct Tee   | ▲                 | Planned   |  |
| Box         |                    |                 | Building   |                   | Inferred  |  |
| Manhole     |                    |                 | Kiosk  |                   | Duct      |  |
| Cabinet     |                    |                 | Other proposed plant is shown using dashed lines.<br>BT Symbols not listed above may be disregarded.<br>Existing BT Plant may not be recorded.<br>Information valid at time of preparation. Maps are only valid for 90 days after the date of publication. |                   |           |  |
|             | <i>Pending Add</i> | <i>In Place</i> | <i>Pending Remove</i>  | <i>Not In Use</i> |           |  |
| Power Cable |                    |                 |  |                   |           |  |
| Power Duct  |                    |                 |  | N/A               |           |  |

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BT Ref : RJN11551G

Map Reference : (centre) TQ3338337990

Easting/Northing : (centre) 533383,137990

Issued : 21/02/2024 11:56:04

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|             | Planned     | Live     | Change Of State  | +          | Hatchings |  |
|-------------|-------------|----------|--|------------|-----------|--|
| PCP         |             |          | Split Coupling   | ×          | Built     |  |
| Pole        |             |          | Duct Tee   | ▲          | Planned   |  |
| Box         |             |          | Building   |            | Inferred  |  |
| Manhole     |             |          | Kiosk  |            | Duct      |  |
| Cabinet     |             |          | Other proposed plant is shown using dashed lines.<br>BT Symbols not listed above may be disregarded.<br>Existing BT Plant may not be recorded.<br>Information valid at time of preparation. Maps are only valid for 90 days after the date of publication. |            |           |  |
|             | Pending Add | In Place | Pending Remove   | Not In Use |           |  |
| Power Cable |             |          |  |            |           |  |
| Power Duct  |             |          |  | N/A        |           |  |

BT Ref : UDD11566E

Map Reference : (centre) TQ3362337990

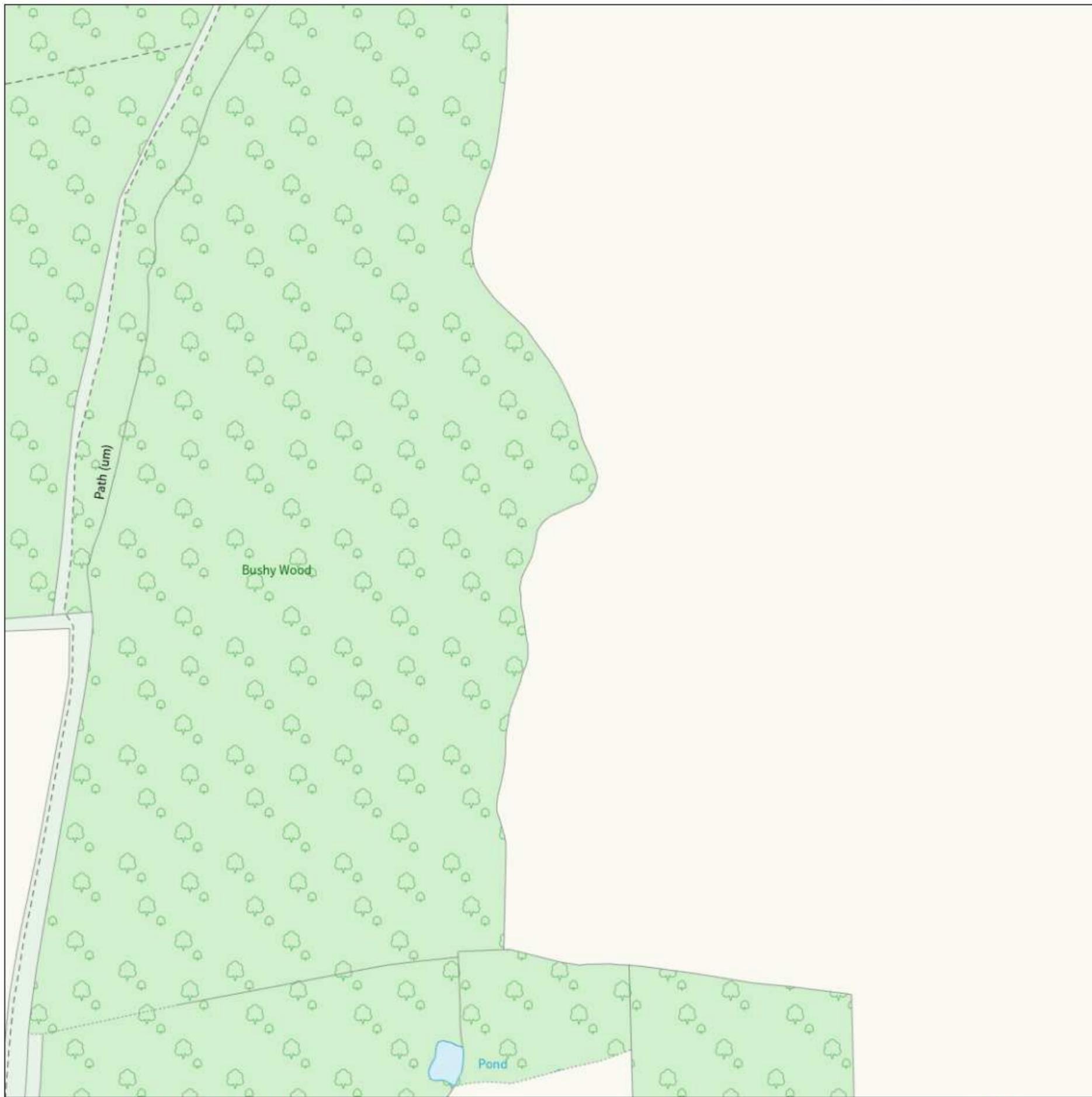
Easting/Northing : (centre) 533623,137990

Issued : 21/02/2024 11:56:09

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## KEY TO BT SYMBOLS

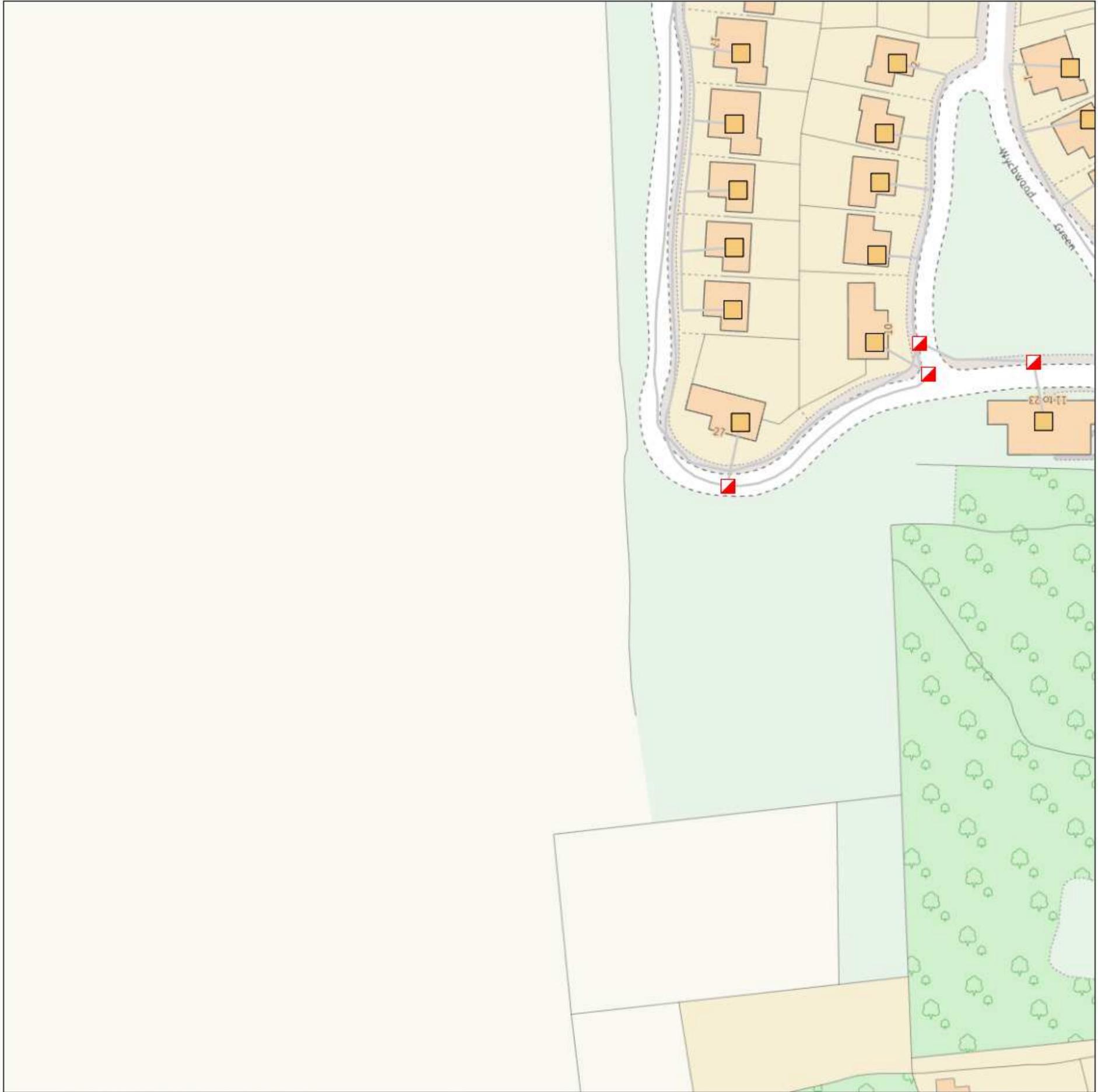
|             | Planned     | Live     | Change Of State  | +          | Hatchings |  |
|-------------|-------------|----------|--|------------|-----------|--|
| PCP         |             |          | Split Coupling   | ×          | Built     |  |
| Pole        |             |          | Duct Tee   | ▲          | Planned   |  |
| Box         |             |          | Building   |            | Inferred  |  |
| Manhole     |             |          | Kiosk  |            | Duct      |  |
| Cabinet     |             |          | Other proposed plant is shown using dashed lines.<br>BT Symbols not listed above may be disregarded.<br>Existing BT Plant may not be recorded.<br>Information valid at time of preparation. Maps are only valid for 90 days after the date of publication. |            |           |  |
|             | Pending Add | In Place | Pending Remove   | Not In Use |           |  |
| Power Cable |             |          |  |            |           |  |
| Power Duct  |             |          |  | N/A        |           |  |

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BT Ref : XBH11564S  
Map Reference : (centre) TQ3338337750  
Easting/Northing : (centre) 533383,137750  
Issued : 21/02/2024 11:56:22

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| KEY TO BT SYMBOLS |                    | Change Of State | +  | Hatchings         |  |
|-------------------|--------------------|-----------------|--|-------------------|--|
|                   | <i>Planned</i>     | <i>Live</i>     | ×  | Built             |  |
| PCP               |                    |                 | ▲  | Planned           |  |
| Pole              |                    |                 | Ⓚ  | Inferred          |  |
| Box               |                    |                 | Other proposed plant is shown using dashed lines.<br>BT Symbols not listed above may be disregarded.<br>Existing BT Plant may not be recorded.<br>Information valid at time of preparation. Maps are only valid for 90 days after the date of publication. |                   |  |
| Manhole           |                    |                 |  |                   |  |
| Cabinet           |                    |                 |  |                   |  |
|                   | <i>Pending Add</i> | <i>In Place</i> | <i>Pending Remove</i>  | <i>Not In Use</i> |  |
| Power Cable       |                    |                 |  |                   |  |
| Power Duct        |                    |                 |  | N/A               |  |

BT Ref : NFK11565C

Map Reference : (centre) TQ3362337750

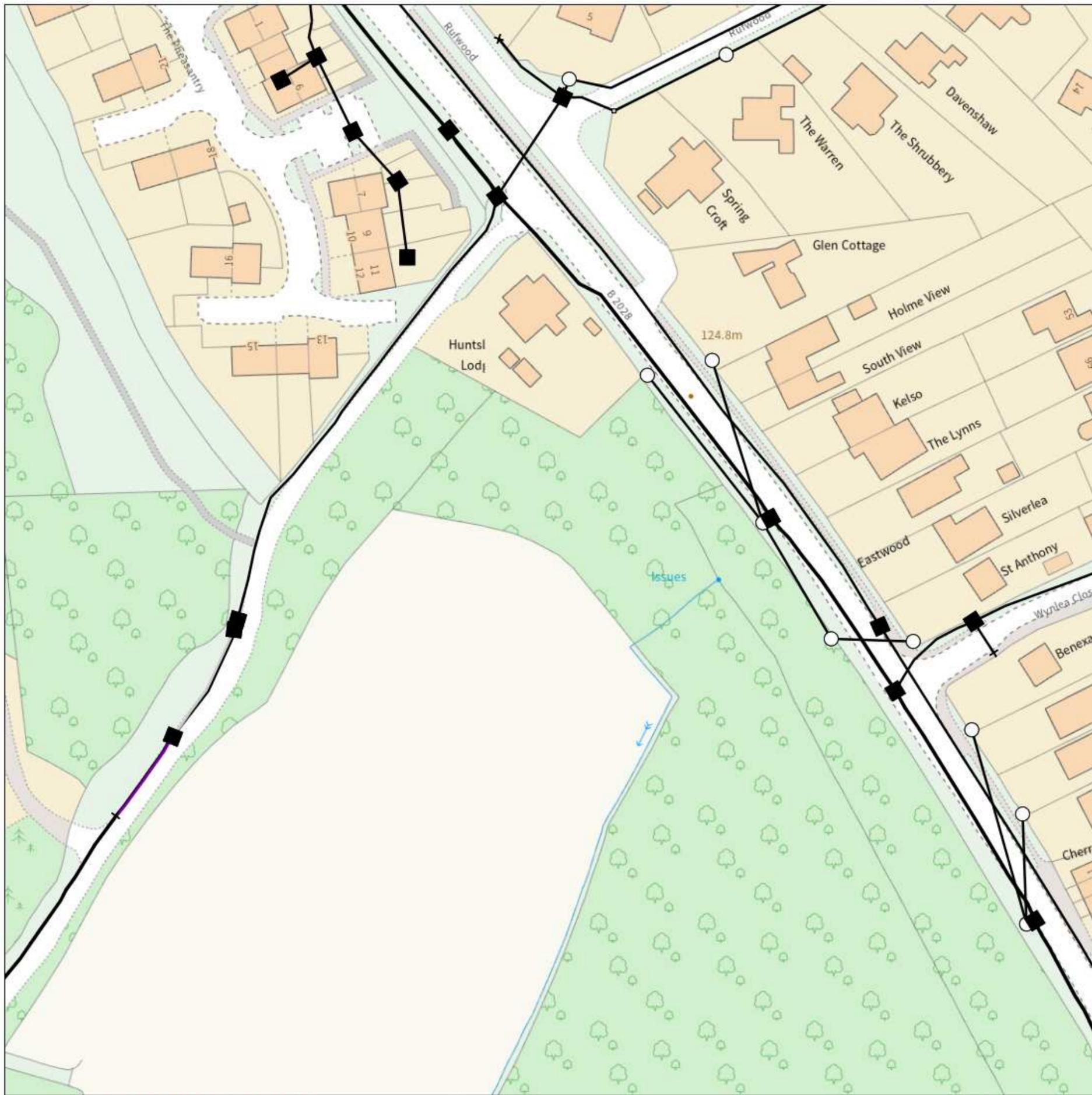
Easting/Northing : (centre) 533623,137750

Issued : 21/02/2024 11:56:34

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|             | Planned     | Live     | Change Of State  | +          | Hatchings |  |
|-------------|-------------|----------|--|------------|-----------|--|
| PCP         |             |          | Split Coupling   | ×          | Built     |  |
| Pole        |             |          | Duct Tee   | ▲          | Planned   |  |
| Box         |             |          | Building   |            | Inferred  |  |
| Manhole     |             |          | Kiosk  |            | Duct      |  |
| Cabinet     |             |          | Other proposed plant is shown using dashed lines.<br>BT Symbols not listed above may be disregarded.<br>Existing BT Plant may not be recorded.<br>Information valid at time of preparation. Maps are only valid for 90 days after the date of publication. |            |           |  |
|             | Pending Add | In Place | Pending Remove   | Not In Use |           |  |
| Power Cable |             |          |  |            |           |  |
| Power Duct  |             |          |  | N/A        |           |  |

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BT Ref : AHK11562Z

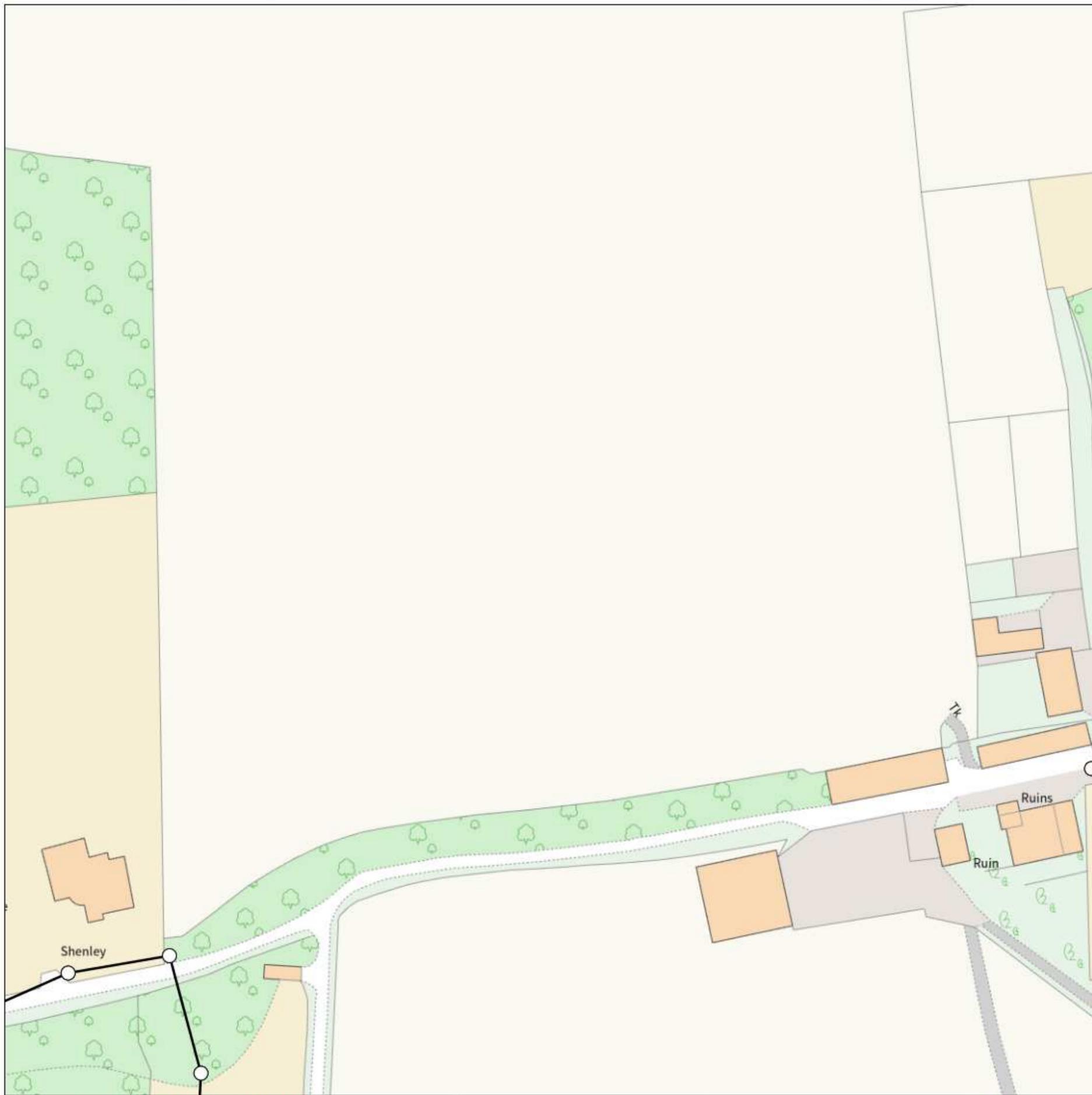
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Easting/Northing : (centre) 533991,137690

Issued : 21/02/2024 11:56:37

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## KEY TO BT SYMBOLS

|             | Planned     | Live     | Change Of State  | +          | Hatchings |  |
|-------------|-------------|----------|--|------------|-----------|--|
| PCP         |             |          | Split Coupling   | ×          | Built     |  |
| Pole        |             |          | Duct Tee   | ▲          | Planned   |  |
| Box         |             |          | Building   |            | Inferred  |  |
| Manhole     |             |          | Kiosk  |            | Duct      |  |
| Cabinet     |             |          | Other proposed plant is shown using dashed lines.<br>BT Symbols not listed above may be disregarded.<br>Existing BT Plant may not be recorded.<br>Information valid at time of preparation. Maps are only valid for 90 days after the date of publication. |            |           |  |
|             | Pending Add | In Place | Pending Remove   | Not In Use |           |  |
| Power Cable |             |          |  |            |           |  |
| Power Duct  |             |          |  | N/A        |           |  |

BT Ref : FCF115680

Map Reference : (centre) TQ3354337561

Easting/Northing : (centre) 533543,137561

Issued : 21/02/2024 11:56:47

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## KEY TO BT SYMBOLS

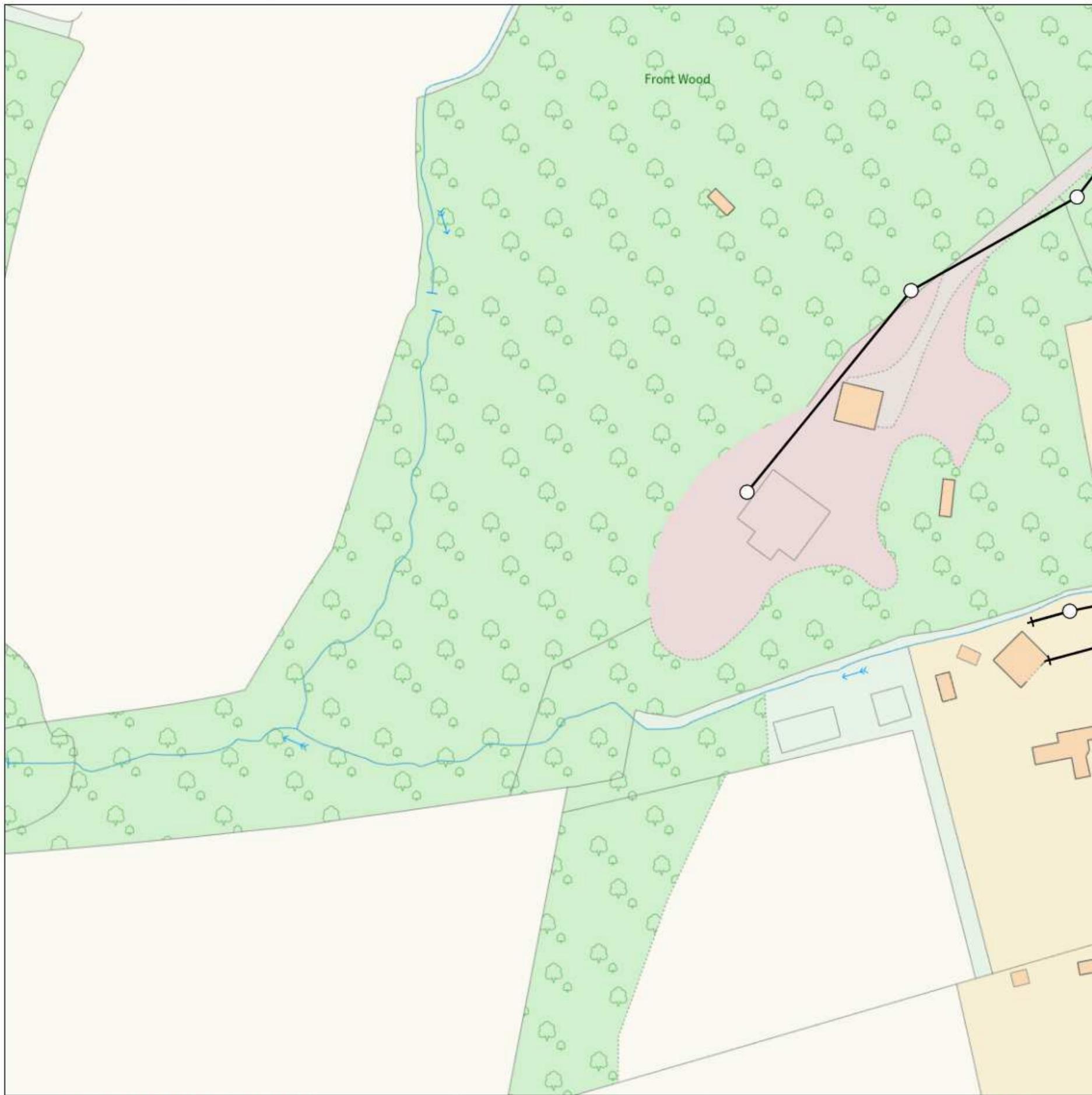
|             | Planned     | Live     | Change Of State  | +          | Hatchings |  |
|-------------|-------------|----------|--|------------|-----------|--|
| PCP         |             |          | Split Coupling   | ×          | Built     |  |
| Pole        |             |          | Duct Tee   | ▲          | Planned   |  |
| Box         |             |          | Building   |            | Inferred  |  |
| Manhole     |             |          | Kiosk  |            | Duct      |  |
| Cabinet     |             |          | Other proposed plant is shown using dashed lines.<br>BT Symbols not listed above may be disregarded.<br>Existing BT Plant may not be recorded.<br>Information valid at time of preparation. Maps are only valid for 90 days after the date of publication. |            |           |  |
|             | Pending Add | In Place | Pending Remove   | Not In Use |           |  |
| Power Cable |             |          |  |            |           |  |
| Power Duct  |             |          |  | N/A        |           |  |

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BT Ref : JTD11561Z  
Map Reference : (centre) TQ3378337561  
Easting/Northing : (centre) 533783,137561  
Issued : 21/02/2024 11:56:59

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|-------------|-------------|----------|--|------------|-----------|--|
| PCP         |             |          | Split Coupling   | ×          | Built     |  |
| Pole        |             |          | Duct Tee   | ▲          | Planned   |  |
| Box         |             |          | Building   |            | Inferred  |  |
| Manhole     |             |          | Kiosk  |            | Duct      |  |
| Cabinet     |             |          | Other proposed plant is shown using dashed lines.<br>BT Symbols not listed above may be disregarded.<br>Existing BT Plant may not be recorded.<br>Information valid at time of preparation. Maps are only valid for 90 days after the date of publication. |            |           |  |
|             | Pending Add | In Place | Pending Remove   | Not In Use |           |  |
| Power Cable |             |          |  |            |           |  |
| Power Duct  |             |          |  | N/A        |           |  |

BT Ref : IQM11568X

Map Reference : (centre) TQ3399137450

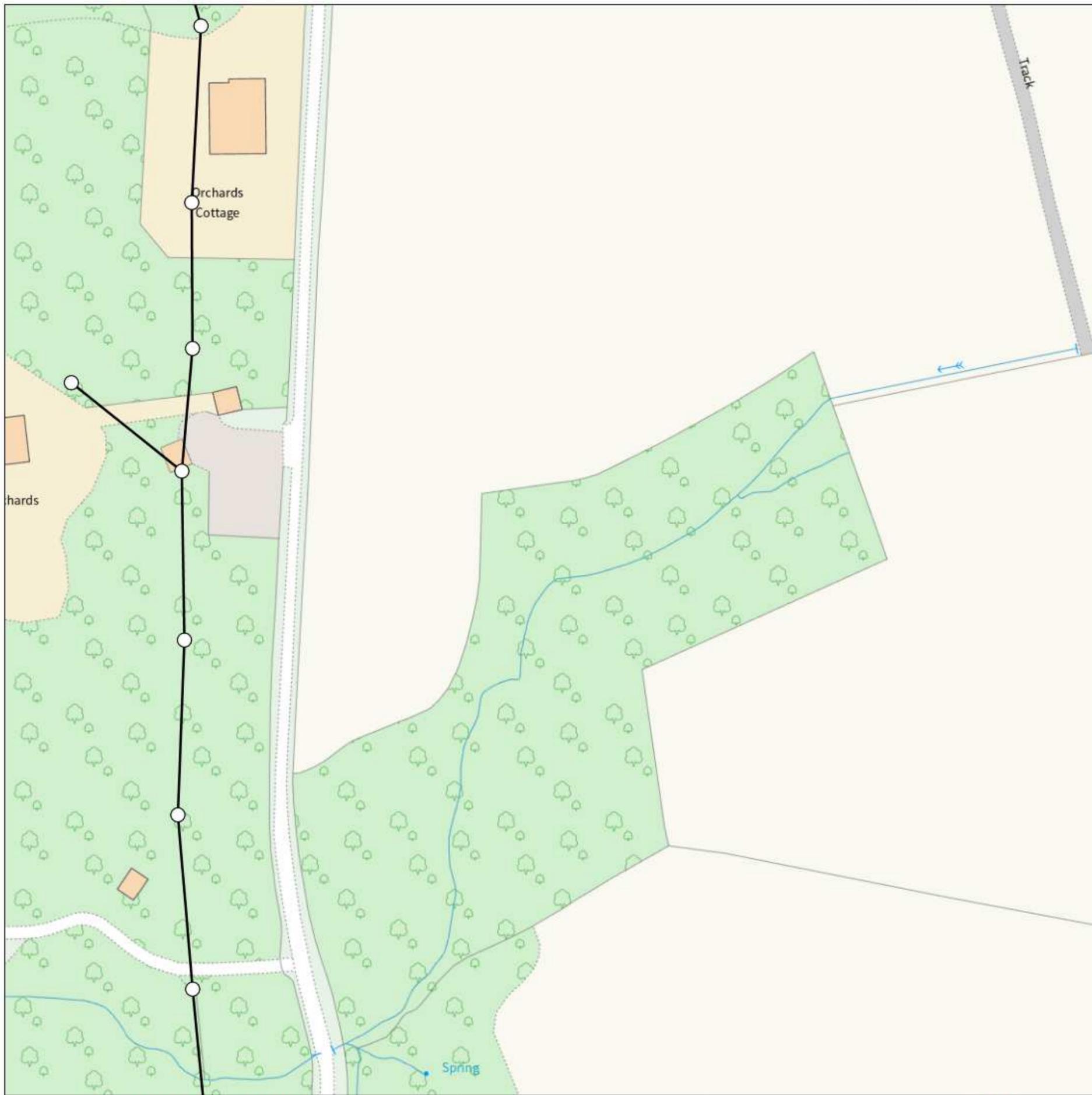
Easting/Northing : (centre) 533991,137450

Issued : 21/02/2024 11:57:02

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|-------------|-------------|----------|--|------------|-----------|--|
| PCP         |             |          | Split Coupling   | ×          | Built     |  |
| Pole        |             |          | Duct Tee   | ▲          | Planned   |  |
| Box         |             |          | Building   |            | Inferred  |  |
| Manhole     |             |          | Kiosk  |            | Duct      |  |
| Cabinet     |             |          | Other proposed plant is shown using dashed lines.<br>BT Symbols not listed above may be disregarded.<br>Existing BT Plant may not be recorded.<br>Information valid at time of preparation. Maps are only valid for 90 days after the date of publication. |            |           |  |
|             | Pending Add | In Place | Pending Remove   | Not In Use |           |  |
| Power Cable |             |          |  |            |           |  |
| Power Duct  |             |          |  | N/A        |           |  |

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BT Ref : NRX11575Y

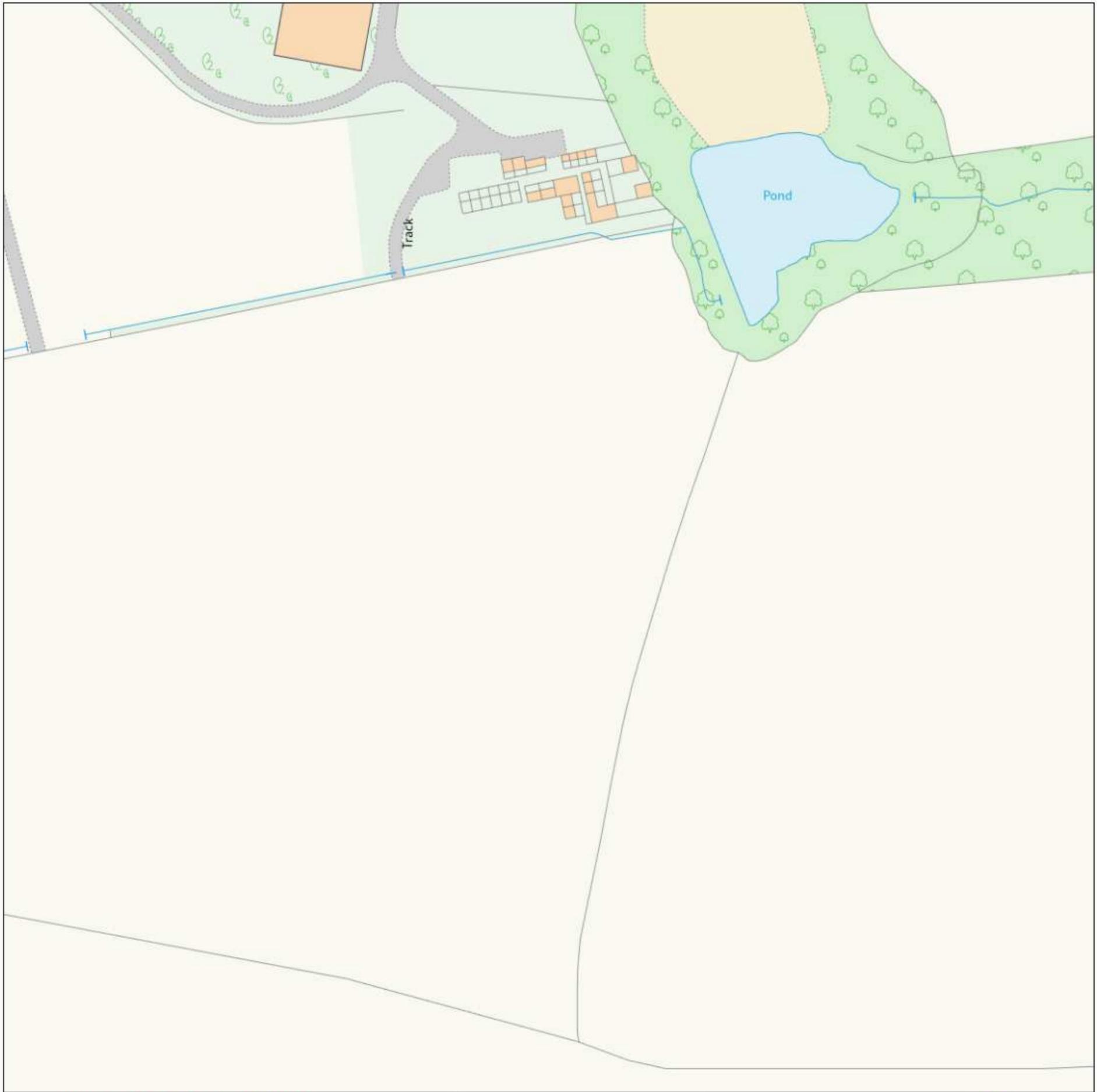
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Easting/Northing : (centre) 533543,137321

Issued : 21/02/2024 11:57:16

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# Maps by email Plant Information Reply



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**openreach**

### CLICK BEFORE YOU DIG

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

email [cbyd@openreach.co.uk](mailto:cbyd@openreach.co.uk)

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

| KEY TO BT SYMBOLS |                    | Change Of State | +  | Hatchings         |  |
|-------------------|--------------------|-----------------|--|-------------------|--|
|                   | <i>Planned</i>     | <i>Live</i>     | ×  | Built             |  |
| PCP               |                    |                 | ▲  | Planned           |  |
| Pole              |                    |                 | ■  | Inferred          |  |
| Box               |                    |                 | Ⓚ  | Duct              |  |
| Manhole           |                    |                 | Other proposed plant is shown using dashed lines.<br>BT Symbols not listed above may be disregarded.<br>Existing BT Plant may not be recorded.<br>Information valid at time of preparation. Maps are only valid for 90 days after the date of publication. |                   |  |
| Cabinet           |                    |                 |  |                   |  |
|                   | <i>Pending Add</i> | <i>In Place</i> | <i>Pending Remove</i>  | <i>Not In Use</i> |  |
| Power Cable       |                    |                 |  |                   |  |
| Power Duct        |                    |                 |  | N/A               |  |

BT Ref : MWO11578P

Map Reference : (centre) TQ3378337321

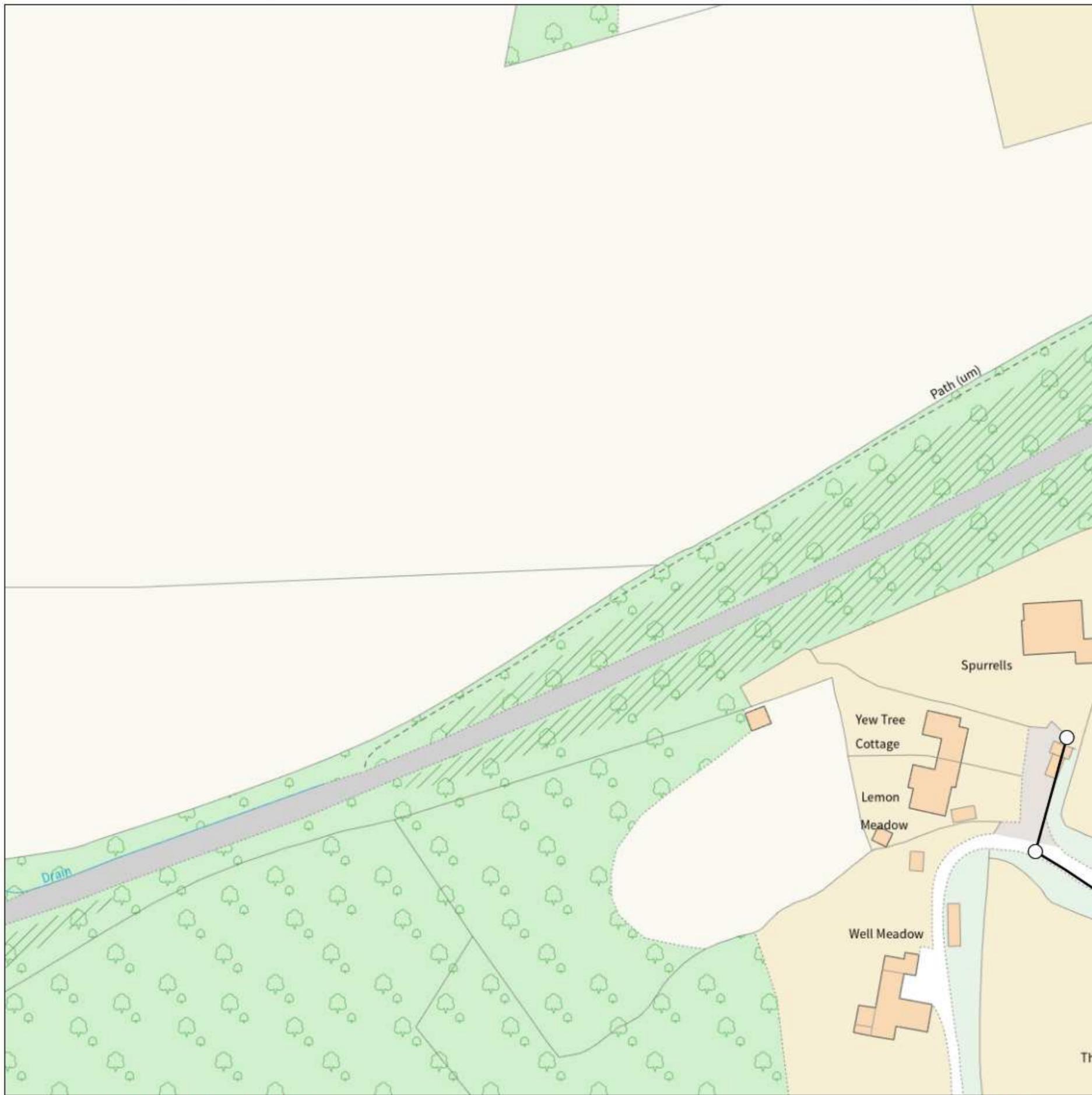
Easting/Northing : (centre) 533783,137321

Issued : 21/02/2024 11:57:19

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**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](mailto:nnhc@openreach.co.uk)**

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## KEY TO BT SYMBOLS

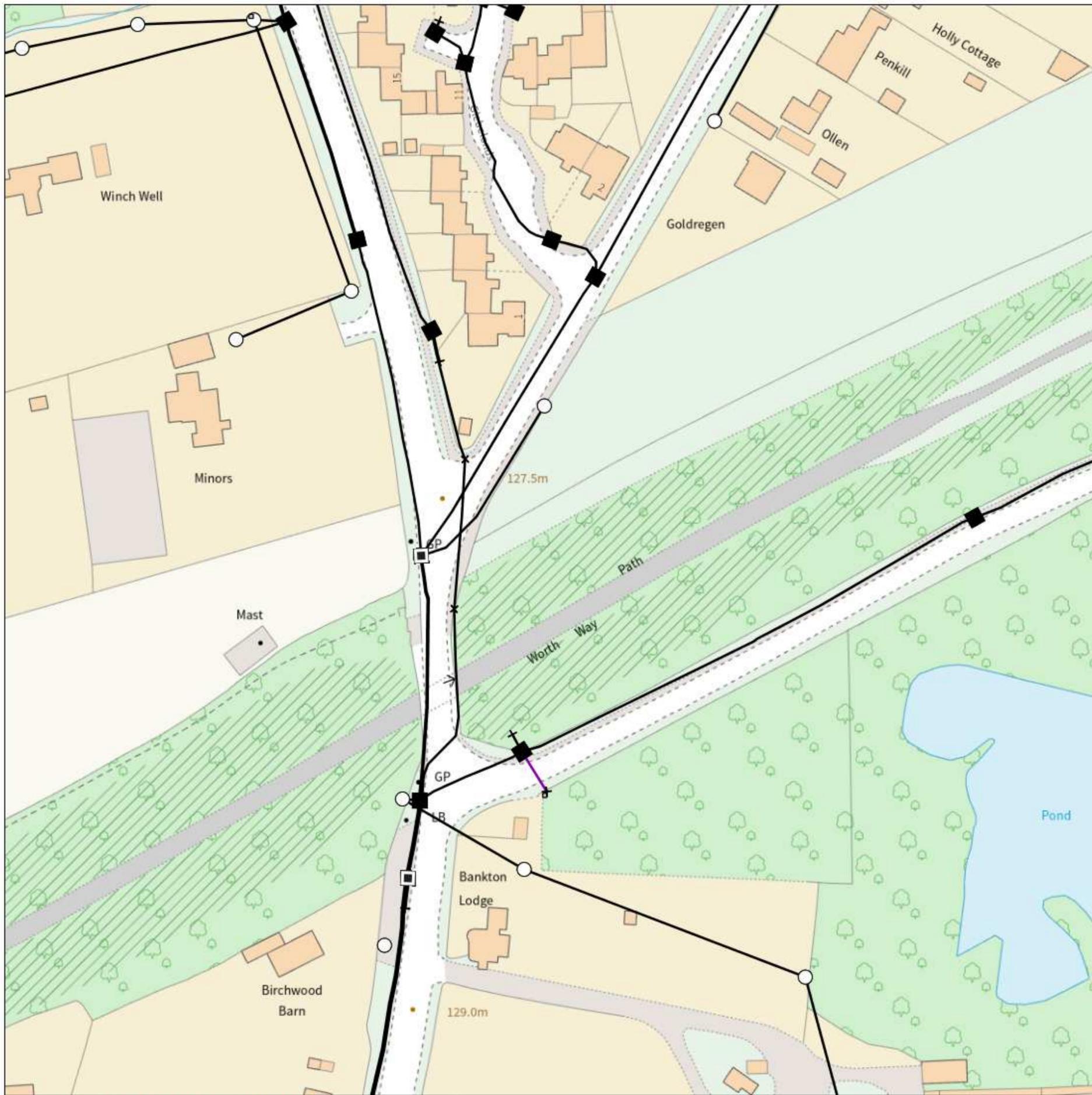
|             | Planned     | Live     | Change Of State  | +          | Hatchings |  |
|-------------|-------------|----------|--|------------|-----------|--|
| PCP         |             |          | Split Coupling   | ×          | Built     |  |
| Pole        |             |          | Duct Tee   | ▲          | Planned   |  |
| Box         |             |          | Building   |            | Inferred  |  |
| Manhole     |             |          | Kiosk  |            | Duct      |  |
| Cabinet     |             |          | Other proposed plant is shown using dashed lines.<br>BT Symbols not listed above may be disregarded.<br>Existing BT Plant may not be recorded.<br>Information valid at time of preparation. Maps are only valid for 90 days after the date of publication. |            |           |  |
|             | Pending Add | In Place | Pending Remove   | Not In Use |           |  |
| Power Cable |             |          |  |            |           |  |
| Power Duct  |             |          |  | N/A        |           |  |

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BT Ref : FJS115780  
Map Reference : (centre) TQ3399137210  
Easting/Northing : (centre) 533991,137210  
Issued : 21/02/2024 11:57:31

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## KEY TO BT SYMBOLS

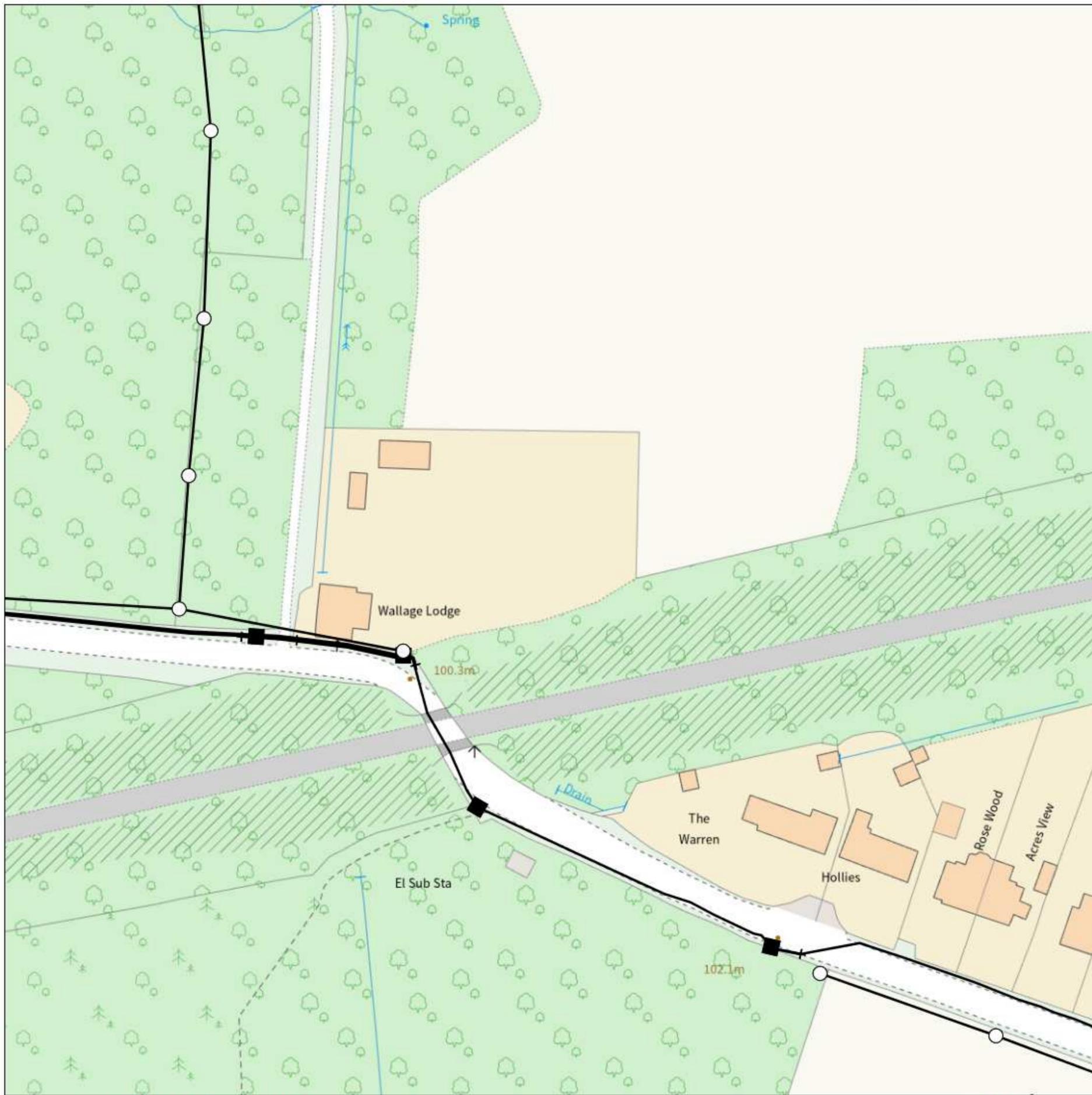
|             | Planned     | Live     | Change Of State  | +          | Hatchings |  |
|-------------|-------------|----------|--|------------|-----------|--|
| PCP         |             |          | Split Coupling   | ×          | Built     |  |
| Pole        |             |          | Duct Tee   | ▲          | Planned   |  |
| Box         |             |          | Building   |            | Inferred  |  |
| Manhole     |             |          | Kiosk  |            | Duct      |  |
| Cabinet     |             |          | Other proposed plant is shown using dashed lines.<br>BT Symbols not listed above may be disregarded.<br>Existing BT Plant may not be recorded.<br>Information valid at time of preparation. Maps are only valid for 90 days after the date of publication. |            |           |  |
|             | Pending Add | In Place | Pending Remove   | Not In Use |           |  |
| Power Cable |             |          |  |            |           |  |
| Power Duct  |             |          |  | N/A        |           |  |

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BT Ref : OCO11579R  
Map Reference : (centre) TQ3423137321  
Easting/Northing : (centre) 534231,137321  
Issued : 21/02/2024 11:57:38

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|             | Planned     | Live     | Change Of State  | +          | Hatchings |  |
|-------------|-------------|----------|--|------------|-----------|--|
| PCP         |             |          | Split Coupling   | ×          | Built     |  |
| Pole        |             |          | Duct Tee   | ▲          | Planned   |  |
| Box         |             |          | Building   |            | Inferred  |  |
| Manhole     |             |          | Kiosk  |            | Duct      |  |
| Cabinet     |             |          | Other proposed plant is shown using dashed lines.<br>BT Symbols not listed above may be disregarded.<br>Existing BT Plant may not be recorded.<br>Information valid at time of preparation. Maps are only valid for 90 days after the date of publication. |            |           |  |
|             | Pending Add | In Place | Pending Remove   | Not In Use |           |  |
| Power Cable |             |          |  |            |           |  |
| Power Duct  |             |          |  | N/A        |           |  |

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BT Ref : HFB115750  
Map Reference : (centre) TQ3354337081  
Easting/Northing : (centre) 533543,137081  
Issued : 21/02/2024 11:57:54

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## KEY TO BT SYMBOLS

|             | Planned     | Live     | Change Of State  | +          | Hatchings |  |
|-------------|-------------|----------|--|------------|-----------|--|
| PCP         |             |          | Split Coupling   | ×          | Built     |  |
| Pole        |             |          | Duct Tee   | ▲          | Planned   |  |
| Box         |             |          | Building   |            | Inferred  |  |
| Manhole     |             |          | Kiosk  |            | Duct      |  |
| Cabinet     |             |          | Other proposed plant is shown using dashed lines.<br>BT Symbols not listed above may be disregarded.<br>Existing BT Plant may not be recorded.<br>Information valid at time of preparation. Maps are only valid for 90 days after the date of publication. |            |           |  |
|             | Pending Add | In Place | Pending Remove   | Not In Use |           |  |
| Power Cable |             |          |  |            |           |  |
| Power Duct  |             |          |  | N/A        |           |  |

BT Ref : MLH11579I

Map Reference : (centre) TQ3378337081

Easting/Northing : (centre) 533783,137081

Issued : 21/02/2024 11:58:03

**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](mailto:nnhc@openreach.co.uk)**



## Tara McCallion

---

**From:** plantenquiryservice@gtc-uk.co.uk  
**Sent:** 21 February 2024 10:24  
**To:** Tara McCallion  
**Subject:** GTC Plant Enquiry - Ref- 4108713  
**Attachments:** 4108713.png; GU-DPR-IG-0022 Safe working in the vicinity of utility networks.pdf

### **Warning: GTC Apparatus Exists in This Area**

**Our Plant Enquiry Service Ref: 4108713**  
**Your Enquiry Ref: Land west of Crawley**

Dear Tara,

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.

#### **N9007009**

##### **Gas**

- [N9007009-1\\_1\\_of\\_1.png](#)

#### **N0021714**

##### **Gas**

- [N0021714-1\\_1\\_of\\_1.png](#)

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

- GTC Pipelines Limited
- Independent Pipelines Limited
- Quadrant Pipelines Limited
- Electricity Network Company Limited

- Independent Power Networks Limited
- Independent Water Networks Limited
- Open Fibre Networks Limited
- Independent Community Heating Limited

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

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

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

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

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

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

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

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

**Thank you for using the GTC Plant Enquiries Service.**

Your sincerely,

**GTC Plant Enquiry Service**

**GTC**

**Synergy House**

**Woolpit Business Park**

**Woolpit**

**Bury St Edmunds**

**Suffolk, IP30 9UP**

**Tel: 01359 240363**

**plant.enquiries@gtc-uk.co.uk**

NOTE:

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

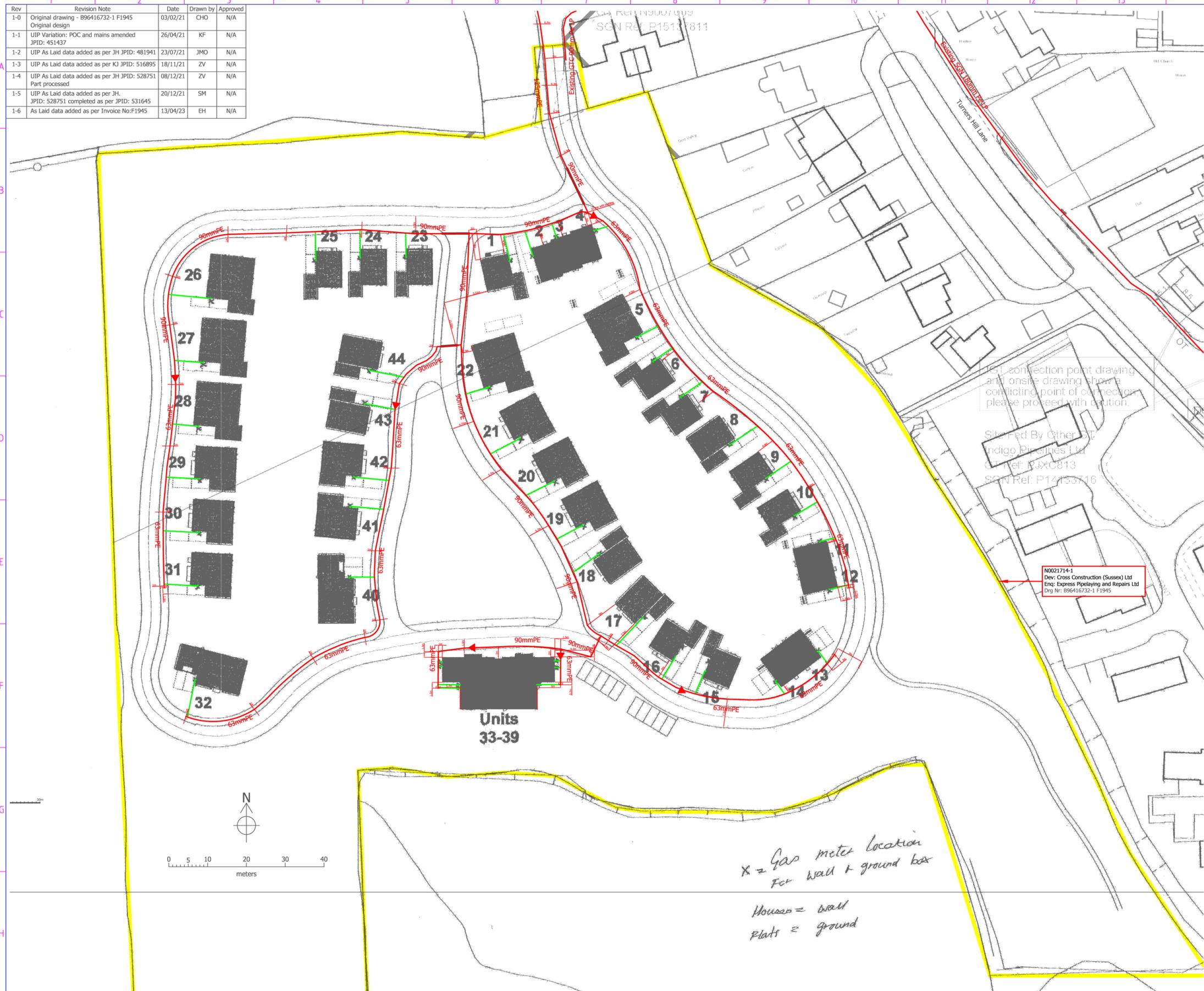
VAT Number: GB688 8971 40. Registered No: 029431.

DISCLAIMER

The information in this E-Mail and in any attachments is confidential and may be privileged. If you are not the intended recipient, please destroy this message, delete any copies held on your system and notify the sender immediately. You should not retain, copy or use this E-Mail for any purpose, nor disclose all or any part of its content to any other person. Whilst we run antivirus software on Internet E-Mails, we are not liable for any loss or damage. The recipient is



| Rev | Revision Note   | Date     | Drawn by | Approved |
|-----|---|----------|----------|----------|
| 1-0 | Original drawing - B96416732-1 F1945 Original design                        | 03/02/21 | CHO      | N/A      |
| 1-1 | UIP Variation: POC and mains amended JPID: 451437                           | 26/04/21 | KF       | N/A      |
| 1-2 | UIP As Laid data added as per JH JPID: 481941                               | 23/07/21 | JMO      | N/A      |
| 1-3 | UIP As Laid data added as per KJ JPID: 516895                               | 18/11/21 | ZV       | N/A      |
| 1-4 | UIP As Laid data added as per JH JPID: 528751 Part processed                | 08/12/21 | ZV       | N/A      |
| 1-5 | UIP As Laid data added as per JH JPID: 528751 completed as per JPID: 531645 | 20/12/21 | SM       | N/A      |
| 1-6 | As Laid data added as per Invoice No:F1945                                  | 13/04/23 | EH       | N/A      |



Best connection point drawing and onsite drawing show a conflicting point of connection please proceed with caution.

Site Ref By Other  
Indigo Pipelines Ltd  
Dwg Ref: IXC813  
SQN Ref: P14153716

**Proposed Services**  
All services to be ducted. Duct laid by the developer at 450mm cover to the finished level. Road crossings to be separately ducted with their position clearly marked. All duct to be 30mm diameter continuous plastic. Services will be laid wherever possible.

**Proposed Mains**  
All mains to be laid in pre-excavated trench to 600mm cover, provided by the developer. Road crossings to be continuous plastic duct or drainage pipe steel to accommodate the mains shown on this drawing, at 750mm cover to the finished level.

| Gas Service                          | Proposed                   | As-Laid                     |
|--------------------------------------|----------------------------|-----------------------------|
| LP Pipe                              | Red dashed line            | Blue solid line             |
| MP Pipe                              | Green dashed line          | Orange solid line           |
| IP Pipe                              | Blue dashed line           | Red solid line              |
| HP Pipe                              | Orange dashed line         | Green solid line            |
| Ducted                               | Red dashed line with dots  | Blue solid line with dots   |
| Excavated by BAK                     | Blue dashed line with dots | Orange solid line with dots |
| S278 Works Boundary                  | Yellow dashed line         | Yellow solid line           |
| Asset Boundary                       | Green dashed line          | Green solid line            |
| LP connection to other PCT           | Red circle with dot        | Blue circle with dot        |
| MP connection to other PCT           | Green circle with dot      | Orange circle with dot      |
| IP connection to other PCT           | Blue circle with dot       | Red circle with dot         |
| Pressure Reducing Station (Governor) | Blue circle with 'G'       | Red circle with 'G'         |
| Reducer                              | Red triangle               | Blue triangle               |
| Valve                                | Red triangle with 'V'      | Blue triangle with 'V'      |

**Duct Sizes**

| Gas Pipe Outside Diameter | Duct Inside Diameter |
|---------------------------|----------------------|
| 20.0mm                    | 100mm                |
| 25.0mm                    | 100mm                |
| 32.0mm                    | 100mm                |
| 40.0mm                    | 100mm                |
| 50.0mm                    | 100mm                |
| 63.0mm                    | 100mm                |
| 75.0mm                    | 100mm                |
| 90.0mm                    | 100mm                |
| 110.0mm                   | 100mm                |
| 125.0mm                   | 100mm                |
| 150.0mm                   | 100mm                |
| 175.0mm                   | 100mm                |
| 200.0mm                   | 100mm                |

ANY ORIGINATOR FROM THESE SIZES AT THE DEVELOPER'S OWN RISK

**Minimum Proximity to Properties - Pe Mains**

| O.D. (mm)  | Material Pe Grade | MOP      |                  |                  |                  |
|------------|-------------------|----------|------------------|------------------|------------------|
|            |                   | <75 mbar | >75 mbar ≤ 2 bar | >2 bar ≤ 5.5 bar | >5.5 bar ≤ 7 bar |
| ≤140       | Pe 80 SDR 26      | 0.25     | 3                |                  |                  |
|            | Pe 80 SDR 17.6    | 0.25     | 3                |                  |                  |
|            | Pe 80 SDR 11      | 0.25     | 3                | 5                | 10               |
| 150 to 250 | Pe 80 SDR 26      | 1        | 3                |                  |                  |
|            | Pe 80 SDR 17.6    | 1        | 3                |                  |                  |
|            | Pe 80 SDR 11      | 1        | 3                | 5                | 10               |
| 315        | Pe 80 SDR 26      | 1        | 3                |                  |                  |
|            | Pe 80 SDR 17.6    | 1        | 3                |                  |                  |
|            | Pe 80 SDR 11      | 1        | 3                | 5                | 10               |

This plan shows those pipes owned by GTC Pipelines Ltd. Gas pipes owned by other transporters or otherwise privately owned, may be present in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. No liability of any kind whatsoever is accepted by the company, its agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HSG017, 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 this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus.

This gas network design has been carried out by:

GTC Design Engineer  
GTC  
Woolpit Business Park  
Bury St Edmunds  
Suffolk  
IP30 9LP

Tel : 01359 240363  
Fax : 01359 244398  
www.gtc-uk.co.uk

GIRS Reg. No: IUP 2000015/0017/001F  
All pipe and fittings used on this design are to be in accordance with GIS/PL2, GIS/L2 and GIS/F7  
© GTC Pipelines Ltd 2006

Drawing Scale : 1:500  
O.S.REF : 533753, 137934  
Network Number : N0021714-1  
Linked Networks : N9007009-1  
Drawing Number : N0021714-1\_R1-6\_1\_of\_1

Developer : Cross Construction (Sussex) Ltd  
Enquirer : Express Pipelaying and Repairs Ltd  
Location : Wychwood, Turners Hill Road, CRAWLEY DOWN, RH10 4HG

**gtc**  
pipelines limited

SHEET SIZE **A1**

## SAFE WORKING IN THE VICINITY OF UTILITY NETWORKS

(Refer to the HSE Guidance Document HSG47)

### Introduction

This document should be issued to anyone intending on working in the vicinity of GTC and associated entities' utility networks and should be used in conjunction with HSG47, NJUG guidance and industry recognised practices.

Confirmation should be sought from the asset owner in any instance of ambiguity or if there is confusion.

Any queries regarding diversions, alterations, and disconnections for Gas, Water, Distributed Heat and Fibre please contact: [Network\\_Variations@gtc-uk.co.uk](mailto:Network_Variations@gtc-uk.co.uk)

Any queries regarding diversions, alterations, and disconnections for Electric, please contact: [Electricity.diversions@gtc-uk.co.uk](mailto:Electricity.diversions@gtc-uk.co.uk)

For more information please see the GTC website: <https://www.gtc-uk.co.uk/> or alternatively contact [plant.enquiries@bu-uk.co.uk](mailto:plant.enquiries@bu-uk.co.uk)

### The Dangers

Damage to services can cause significant disruption and project delays and therefore incur considerable costs as well as the potential for severe or fatal injury to not only to those directly involved but also the general public.

Damages often have instantaneous reactions like explosive arcing with cables or leaks for gas and water mains however latent reactions due to damages that are ignored, consealed, or unnoticed can have much greater consequences.

### General

1. It is imperative that all works are carried out in accordance with the guidance provided by the HSE (Health and Safety Executive) in their document HSG47 "Avoiding Danger from Underground Services", ISBN 978 0 7176 6584 6, 3<sup>rd</sup> Edition 2014. No party shall carry out any excavation works or other intrusive works such as piling, blasting or demolition without following the guidance in HSG47.
2. We own gas, electricity, water, waste water, fibre, and district heating apparatus located in the highway, private property and through the countryside. Some plant may be located in land for which a wayleave or easement has been granted and there may be no surface evidence of the presence of apparatus.
3. Ensure that you have obtained detailed plans of existing and proposed gas, electricity, water, waste water, fibre, and district heating networks before any works commence.
4. The position of the networks shall be pinpointed as accurately as possible by visually surveying the area for indications of apparatus, by means of a locating device, and reference the information gathered to the plans. Locating equipment must be tested and calibrated within the manufacturer's calibration date.

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

Once the apparatus has been located, appropriate marking be made on the covering hard surface confirming location and any errors in plans identified, GTC should be advised to allow plans to be updated.

5. Hand-held power tools can damage buried apparatus and shall be used with care until the exact position of a utility has been determined. They may only be used to break a paved or concrete surface above the network, unless there are any indications that the network is particularly shallow; in such circumstances, accuracy of plant location is determined and excavation initiated adjacent to the apparatus.
6. No manhole, chamber or other structure shall be built over, around or under the network. Such structures, other pipes, ducts and cables should be laid to provide a minimum clearance from the existing network of 300mm or 1.5 times the diameter of the asset, whichever is the greater. No work should be carried out if this minimum clearance cannot be met or which results in a reduction of cover or protection over the network, without first consulting GTC, please seek advice from GTC.
7. Where an excavation uncovers any network apparatus the backfill shall be adequately compacted, particularly beneath the network, to prevent any settlement, which would subsequently damage the network. Backfill material adjacent to the network shall be selected fine material or sand, containing no stones, bricks or lumps of concrete etc. and shall be suitably compacted to give comparable support and protection to that provided before excavation. No power compaction shall take place until at least 200mm cover of selected fine fill has been suitably compacted by hand tools.
8. If the road construction is close to the top of the network, GTC shall be asked to identify whether any additional precautions are necessary. The road construction depth should not be reduced without permission from the local Highway Authority.
9. Costs incurred by GTC through direct or consequential damage shall be recharged.
10. Where utilities are within a duct the duct should be treated in the same manner as live utility cable/pipe/fibre and any work in the vicinity of the apparatus shall be carried out with caution.

Any damage caused no matter how insignificant or minor in appearance SHALL BE REPORTED to GTC as soon as possible.

### **Precautions for Gas Networks**

11. Plans do not always show the presence of gas service pipes (from the gas main to premises) but their existence should be assumed with consideration given to the increased height of the service off-take fitting on the main.
12. The depth of cover for gas mains is typically 750mm in carriageways and grass verges, 600mm in footways and 1.1m in open field. The depth of cover for gas services is typically between 375mm and 600mm. Reference should always be made to the network drawing. Remember these covers are to finished level, you may be working in an area, which will be made up or lowered at a later date.
13. Gas pipes should be located by hand digging before mechanical excavation begins. When the positions and depth of the pipes have been determined, work can proceed.

- 14.** If a gas leak is suspected, the following action should be taken immediately:
- Remove all people from the immediate vicinity of the escape. If the service connection to a building or the adjacent main has been damaged, warn the occupants to leave the building, and any adjoining building, until it is safe for them to return. It is important to note that a mechanical excavator may not only cause damage/leakage at the point of impact. For example, damage to a service connection outside the building may result in further, unseen damage to the connection inside the building. Gas leaking from the damage inside or gas travelling along the line of the service connection pipe from outside the building may cause a build-up of gas within the building.
  - Prohibit smoking, and extinguish all naked flames and other sources of ignition i.e. stop excavator and compressor engines within at least 5.0m of the leak.
  - Inform the National Gas Emergency Service immediately by dialling:  
**0800 111 999**
  - Remain on site.
  - Assist the Gas Emergency Service Provider staff, Police, Fire Services or other Statutory Authorities as requested.
- 15.** Where gas pipes cross or are parallel and close to excavations, changes in backfill etc. may cause differential ground settlement and increased stress in the pipe. For pipes parallel and close to excavations, the degree of risk depends upon the depth of the excavation, the distance of the pipe from the excavation, the type of soil and any excessive loading from heavy construction plant and materials. Wherever excavation works may affect the support of the gas pipe or cause excessive loading over the gas pipe then GTC shall be consulted.
- 16.** No concrete or other hard material should be placed or left under or adjacent to any gas pipe as this can cause pipe fracture at a later date. Concrete backfill should not be used within 300mm of a gas pipe.
- 17.** Where an excavation uncovers a gas pipe with a damaged wrapping, GTC shall be informed, so that repairs can be made to prevent future corrosion and leakage.
- 18.** Pipe restraints or thrust blocks close to gas mains shall not be removed or interfered with as they are a safety feature of the live gas network.
- 19.** Anyone who carries out work near underground gas plant should observe any specific requirements made by the site manager, and ensure that access to the plant by the asset owners staff is available at all times. No unauthorised repairs to gas pipes should be made.
- 20.** Where excavation is within 5m proximity to above or below ground pressure control equipment, ground workers must be aware of the possibility of encountering small auxiliary pipework that is more susceptible to damage.
- 21.** Where PE pipes and cables have been exposed and it is intended that hot work (e.g. welding, grinding, etc) be carried out, contact shall be made with GTC to confirm additional precautions and actions that may require to be undertaken.
- 22.** GTC shall be consulted if it is intended to carry out any of the following activities:

- Using explosives within 30m of gas pipes or 400m of gas pressure reduction equipment.
- Piling or boring within 15m of gas plant.
- Excavating within 10m of pressure reduction equipment.
- Reducing the cover or protection of a gas pipe.
- Carrying out deep excavations nearby (minimum of 2m up to 15m).
- Working within 3m of GTC's intermediate pressure (IP) mains.

### **Precautions for Electricity Networks**

- 23.** Plans do not always show the presence of electric service cables (from the electricity main to premises) but their existence should be assumed.
- 24.** In most cases there will be no permanent surface marker posts or other visible indication of the presence of a buried cable. Even if no cables are shown on plans or detected by a locator, there may still be cables present, which could be live and a close watch should be kept for any signs which could indicate their presence such as marker tape, tape tile, concrete tiles and wooden battens. Any marker which is disturbed by our excavations must be replaced once work is completed.
- 25.** Typically underground cables are laid in trenches between 450mm and 1000mm deep, although some high voltage cables will be deeper, however, depths should never be assumed.
- 26.** A cable is positively located only when it has been safely exposed. Even then, digging should still proceed with care as there may be other cables adjacent or lower down.
- 27.** Occasionally, cables are terminated in the ground by means of a seal, sometimes with external mechanical protection. These "pot ended" or "bottle ended" cables should be treated as live and should not be assumed to be abandoned or disused. They can be difficult to detect with locators even when "live".
- 28.** Where practicable, such power tools shall only be used 500mm or more away from the indicated line of a cable buried in or below a hard surface. Having done so, the cable shall then be positively located by careful hand digging under the hard surface. The hard surface should be gradually removed until the cable is exposed. If the cable is not exposed then it must be assumed to be embedded within the surface. Where possible a cable locator shall be used as a depth guide down the side of the excavation.
- 29.** Because of the difficulty in confirming depth, hand held power tools shall never be used over the cable unless either:
  - The cable has already been exposed by digging under the surface to be broken out and it is at a safe depth (at least 300mm) below the bottom of the hard surface material.
  - or
  - Physical precautions have been taken to prevent the tool striking the cable.

- 30.** Excavating close to electricity cables buried in concrete is dangerous and shall not be undertaken unless the cable(s) have been isolated. For this reason alone electricity cables should not be buried in concrete.
- 31.** Where mechanical excavators are used in the possible vicinity of underground cables, the work should be arranged so that damage to cables is avoided so far as is reasonably practicable. To minimise danger to operatives those onsite shall be outside of the reach of the excavator bucket and shall not enter the trench whilst digging is undertaken. Excavator operators shall be instructed to stay in the cab if a cable is struck. If excavator operators have to exit the cab they should jump clear. If excavator operators climb down from the cab the risk of electrocution is significantly increased. If a cable is struck, the machine involved shall be subject to continuous observation and no one shall enter the excavation or approach the machine or the cable until GTC have been contacted and the damaged cable has been made safe.
- 32.** Where cables have been exposed:
- Any damage shall be reported to GTC immediately on: **0800 032 6990**  
And work shall not be undertaken in the vicinity of a damaged cable until GTC has investigated its condition.
  - For more than 1.0m and they cross a trench, support shall be provided. If the exposed cable length is shorter than 1.0m support shall still be considered if joints have been exposed or the cable appears otherwise vulnerable to damage. Where advice and help is needed contact GTC.
  - Suitable precautions shall be taken to prevent damage from on-going work in the excavation. This may involve for example the use of physical means (e.g. timber boards, sandbags etc) to prevent mechanical damage. Materials or equipment which could damage or penetrate the outer sheath of the cable shall not be used. Cables lying in the bottom of an excavation are particularly vulnerable and shall be protected by nail free wooden planks, troughing or other suitable means.
  - Cables shall not be moved aside unless the operation is supervised by GTC.
  - Precautions shall be taken to prevent access by members of the public.
- 33.** GTC shall be consulted if it is intended to carry out any of the following activities:
- Using explosives within 30m of plant or substations piling or boring within 15m of electric plant.
  - Excavating within 10m of a substation.
  - Carrying out deep excavations nearby (minimum of 2m up to 15m).
  - Working near GTC's HV plant.

### **Precautions for Water Networks**

- 34.** Plans do not always show the presence of water service pipes (from the water main to premises) but their existence should be assumed with consideration given to the increased height of the service off-take fitting on the main.