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MECHANICAL & ELECTRICAL BUILDING SERVICES  
PUBLIC UTILITY SUPPLIES STATEMENT REPORT

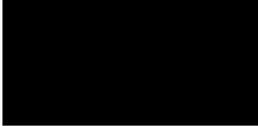
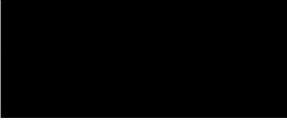
FOR

SAFFRON WALDEN, ESSEX

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PROJECT NUMBER:	22-0222
DOCUMENT REFERENCE:	220222-RGL-ZZ-XX-RP-U-90-0001
REVISION:	S2-P04

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**REVISION**

REVISION	ISSUE DATE	REASON FOR ISSUE
S2-P01	19.08.2022	For information.
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S2-P03	25.11.2022	Updated to Suit Client Amendments
S2-P04	25.11.2022	Updated to Suit Client Comments

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## 1.0 INTRODUCTION

This Public Utility Supplies Statement Report has been prepared on behalf of Kier Ventures Ltd in support of their outline planning Application for a residential development for up to 170 dwellings on the site Land West of Thaxted Road, Saffron Walden, Essex.

The site is situated to the West of Thaxted Road, Saffron Walden and is centred approximately on National Grid Reference 554750, 237320. This report will focus on the site indicated in red in Figure 1.

A search of public utility supplies/records has been undertaken to determine utility assets that exist on or near the development site to determine any impact of overhead/buried services on the development.

The existing public utility services considered within this document are disposal systems (i.e. surface water and foul drainage), mains cold water, natural gas, electrical and telecommunications.

The suppliers of these utilities have been contacted to provide information for the site and the details of our findings are provided in this document.



Figure 1 – Aerial Photograph of Saffron Walden.<sup>1</sup>

<sup>1</sup> Google® Maps March 2022.

## 2.0 DISPOSAL SYSTEMS (SEWERAGE)

### 2.1 EXISTING INFRASTRUCTURE

The existing disposal system infrastructure information, incorporating surface/storm water and foul water drainage, has been acquired and analysed to determine any potential impacts on the proposed development site.

The following information is based on the record documents produced by Anglian Water.

As such, Rolton Group Ltd (RGL) cannot guarantee the accuracy of this information. The information used is assumed to be the latest version(s) held by the public utility supply providers at the time of writing this report.

Anglian Water maintains the surface water, foul and combined sewerage infrastructure in the area.

Correspondence with Anglian Water dated 18<sup>th</sup> March '22 provided information on the existing surface water, foul and combined infrastructure in the vicinity of the proposed development site. The relevant information is shown in Figure 2.

#### 2.1.1 OBSERVATIONS

Drainage infrastructure is shown to not be present within the boundaries of the site.

Both foul and surface water infrastructure is located outside the boundary of the site to the North West serving the housing development in this area. No foul or surface water infrastructure indicated on Thaxted Road.

#### 2.1.2 DIVERSIONS

No required diversions indicated.

#### 2.1.3 DISCONNECTIONS

No required disconnections indicated.

#### 2.1.4 CONNECTIONS

For a more detailed assessment of flood risk and drainage for the site refer to RGL document 220222-RGL-ZZ-XX-RP-C-0002 Flood Risk Assessment & Drainage Strategy.

##### 2.1.4.1 Surface Water Drainage

The geology of the site will provide varying levels of infiltration potential, as proven by on site testing. Based on the test results, a conservative rate of infiltration of  $5 \times 10^{-6} \text{m/s}$  for chalk may be adopted for soakaway design, however, this rate is likely to increase to  $10^{-5} \text{m/s}$  when deepened into the predominantly gravel chalk (Grade Dc).

Once soakaway locations are confirmed it is recommended that additional testing be completed to confirm the soil infiltration rate is as, or better than, that assumed in design.

**ACTION** Additional soakaway testing should be completed to confirm the infiltration rate for Head deposits. Soakaways in chalk should be positioned at least 10m from foundations or other structure/features and consideration should also be given to the use of silt traps along with interceptors for road and car park run-off

##### 2.1.4.2 Foul Water Drainage

Foul water, or effluent, flows from the site will be managed in a new sewer system which will connect to the existing public foul sewer network, which is understood to have been extended to serve the recent Bellway development to the east of the site and is also understood to have been designed to serve the development at Knights Park.

**ACTION** Existing sewer will be investigated and the invert levels surveyed. If the invert level of the existing sewer would not allow for a gravity connection, a pump station designed to adoptable standards would need to be considered.

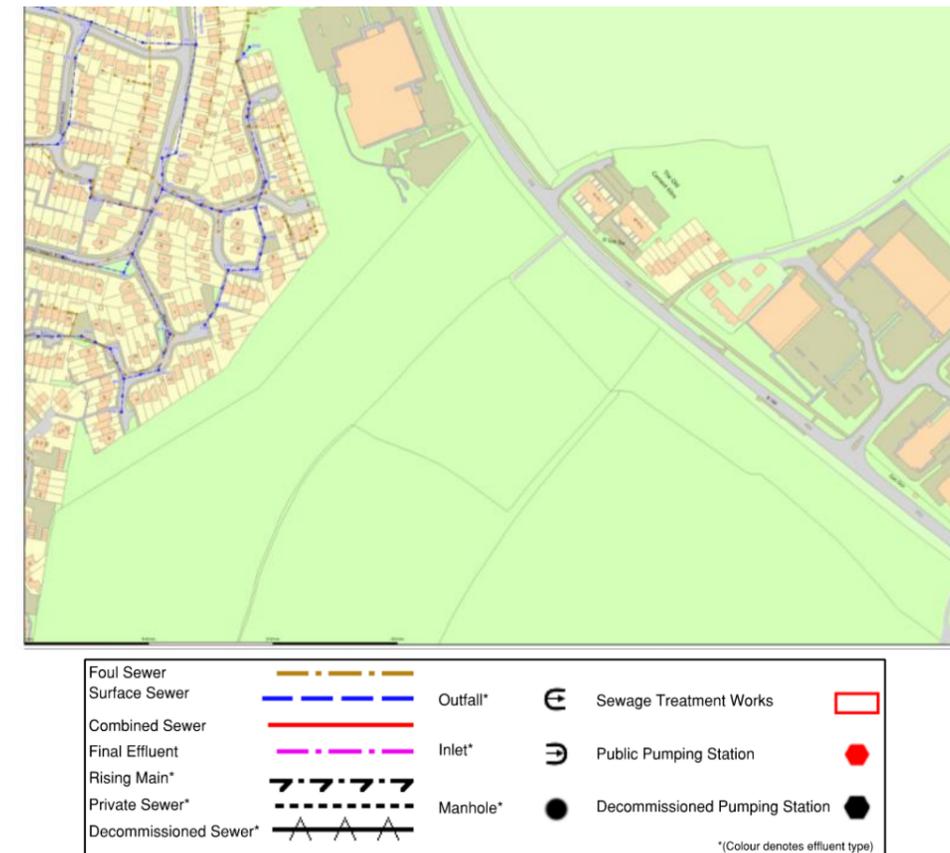


Figure 2 – Anglian Water Wastewater Asset Location Map.<sup>2</sup>

<sup>2</sup> Anglian Water Wastewater Asset Location Map (Map Ref – 809798 - 1).

### 3.0 CLEAN WATER

#### 3.1 EXISTING INFRASTRUCTURE

The existing clean water infrastructure information has been acquired and analysed to determine any potential impacts on the proposed development site.

The following information is based on the record documents produced by Affinity Water.

As such RGL cannot guarantee the accuracy of this information and the information used is assumed to be the latest version(s) held by the public utility supply providers at the time of writing this report.

Affinity Water maintains the clean water infrastructure in the area.

Correspondence with Affinity Water dated 22<sup>nd</sup> March '22, provided information on the existing clean water infrastructure in the vicinity of the proposed development site. The relevant information is shown in Figure 3.

##### 3.1.1 OBSERVATIONS

No clean water infrastructure is shown present within the proposed site boundary.

A 12-inch clean water main is present running along Thaxted Road on the east, serving properties within Knight Park.

A network of clean water infrastructure is also present serving the housing estate to the North West of the site. The size of this pipework is indicated as a 6-inch main running along Winstanley Road and Cromwell Road, feeding 100mm diameter branches.

##### 3.1.2 DIVERSIONS

No required disconnections indicated.

##### 3.1.3 DISCONNECTIONS

No required disconnections indicated.

##### 3.1.4 CONNECTIONS

Future service connections to the site should originate from distribution main running along Thaxted Road.

**ACTION** Once anticipated water consumption has been calculated for the site, applications should be made to Affinity Water for new water connections.

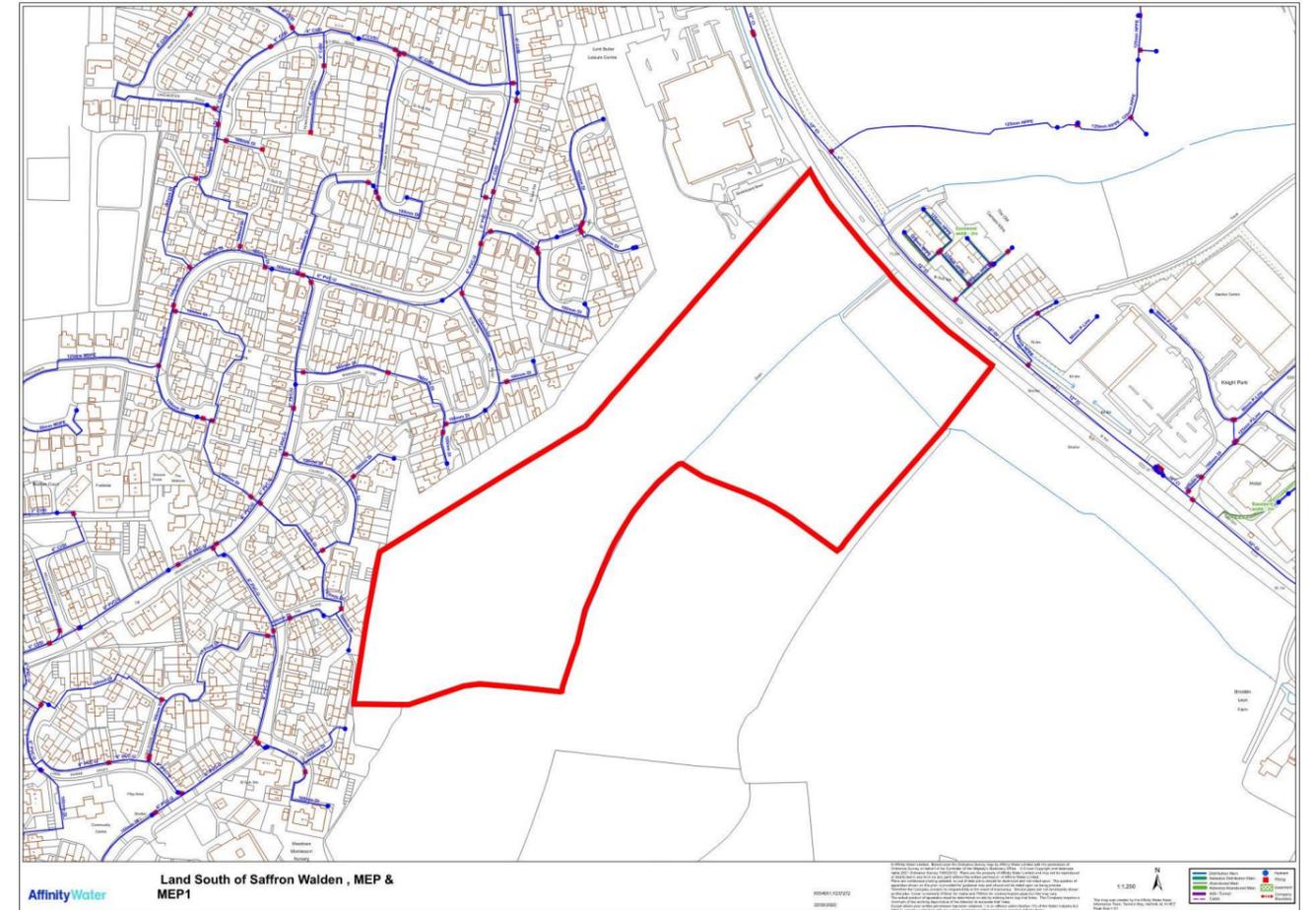


Figure 3 – Affinity Water Clean Water Asset Location Map – Site 006. <sup>3</sup>

<sup>3</sup> Affinity Water Clean Water Asset Location Map – Site 006.

## 4.0 NATURAL GAS (GAS)

### 4.1 EXISTING INFRASTRUCTURE

The existing natural gas infrastructure information has been acquired and analysed to determine any potential impacts on the proposed development site.

The following information is based on the record documents produced by Cadent.

As such RGL cannot guarantee the accuracy of this information and the information used is assumed to be the latest version(s) held by the public utility supply providers at the time of writing this report.

Cadent maintains the natural gas infrastructure in the area.

Correspondence with Cadent dated 15<sup>th</sup> March '22, provided information on the existing natural gas infrastructure in the vicinity of the proposed development site. The relevant information is shown in Figure 4.

#### 4.1.1 OBSERVATIONS

Natural gas infrastructure is present running through the centre of the site. However, the site layout has been designed to accommodate this main and provide required space for access/wayleaves.

The existing gas main is a 6" diameter medium pressure main.

A 6" medium pressure main is also present running along Thaxted Road.

Natural gas infrastructure is also present within the housing estate North West to the site.

#### 4.1.2 DIVERSIONS

As main passing through the site has been successfully integrated into the development with sufficient buffer being applied, no diversions are required.

#### 4.1.3 DISCONNECTIONS

No required disconnections indicated.

#### 4.1.4 CONNECTIONS

Future service connections to the site should originate from the medium pressure main running along the infrastructure within the site perimeter, originating from Thaxted Road.

**ACTION** Once anticipated gas consumption has been calculated for the site, applications should be made to Cadent for new gas connections.

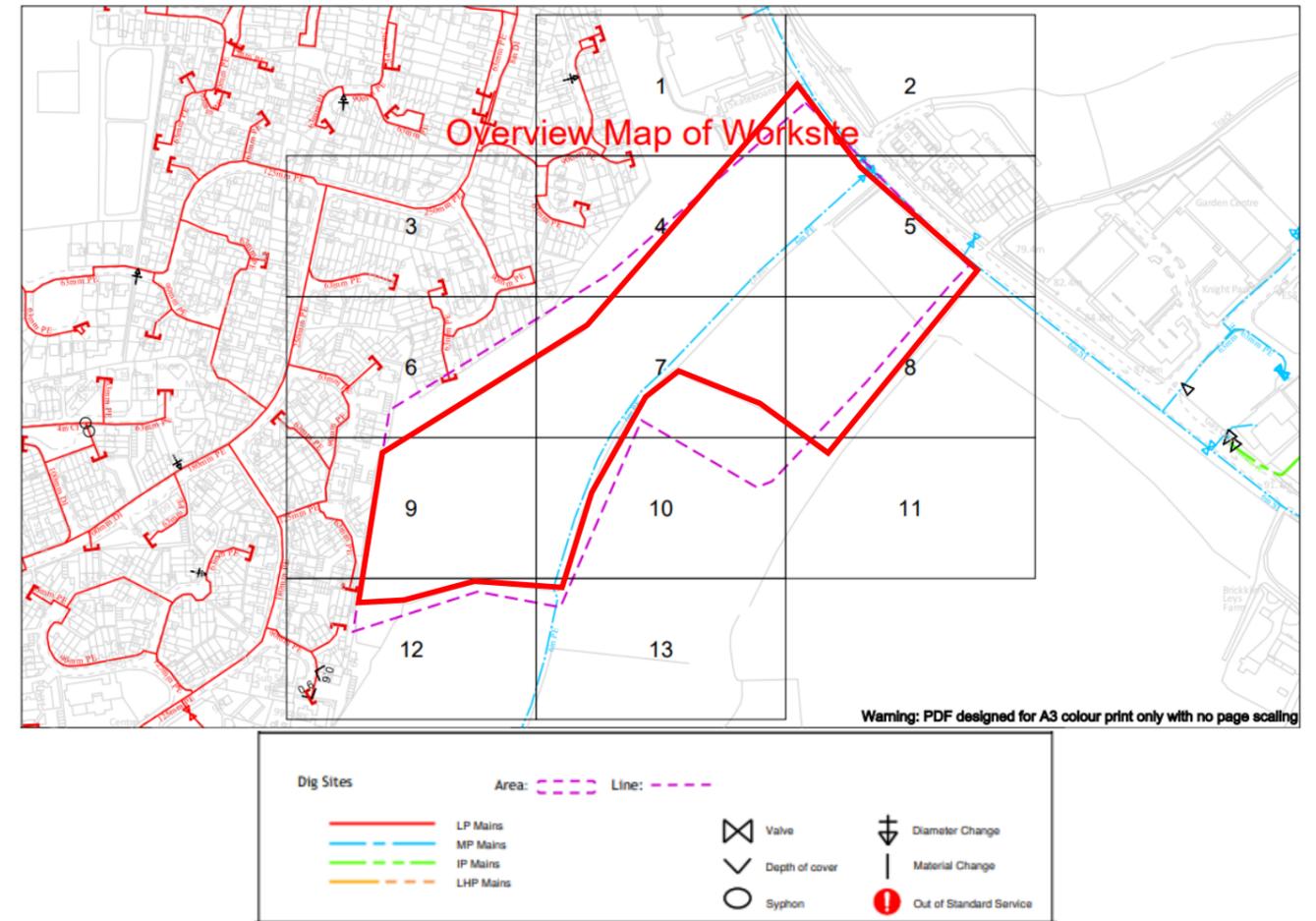


Figure 4 – Cadent Natural Gas Asset Location Map.<sup>4</sup>

<sup>4</sup> Cadent Natural Gas Asset Location Map (Map Ref – 25034021).

## 5.0 ELECTRICITY

### 5.1 EXISTING INFRASTRUCTURE

The existing High Voltage (HV)/Low Voltage (LV) infrastructure information has been acquired and analysed to determine any potential impacts on the proposed development site.

The following information is based on the record documents produced by UK Power Networks (UKPN).

As such RGL cannot guarantee the accuracy of this information and the information used is assumed to be the latest version(s) held by the public utility supply providers at the time of writing this report.

UKPN maintains the electrical infrastructure in the area.

Correspondence with UKPN dated 18<sup>th</sup> March '22, provided information on the existing HV & LV infrastructure in the vicinity of the proposed Saffron Walden development site. The relevant information is shown in Figure 5.

#### 5.1.1 OBSERVATIONS

Electrical infrastructure is shown present running along the site boundary to the South East. Overhead HV cables are indicated in this area.

Buried 11kV cables are present running along Thaxted Road outside the site boundary.

An LV network is indicated serving the housing estate to the North of the site and surrounding buildings. Knight Park shopping centre is also supplied by a LV network. This infrastructure originates from a substation located to the west of the Knight Park shopping centre site.

Substations are also present within the housing estate to the North and West of the site.

#### 5.1.2 DIVERSIONS

No required disconnections indicated.

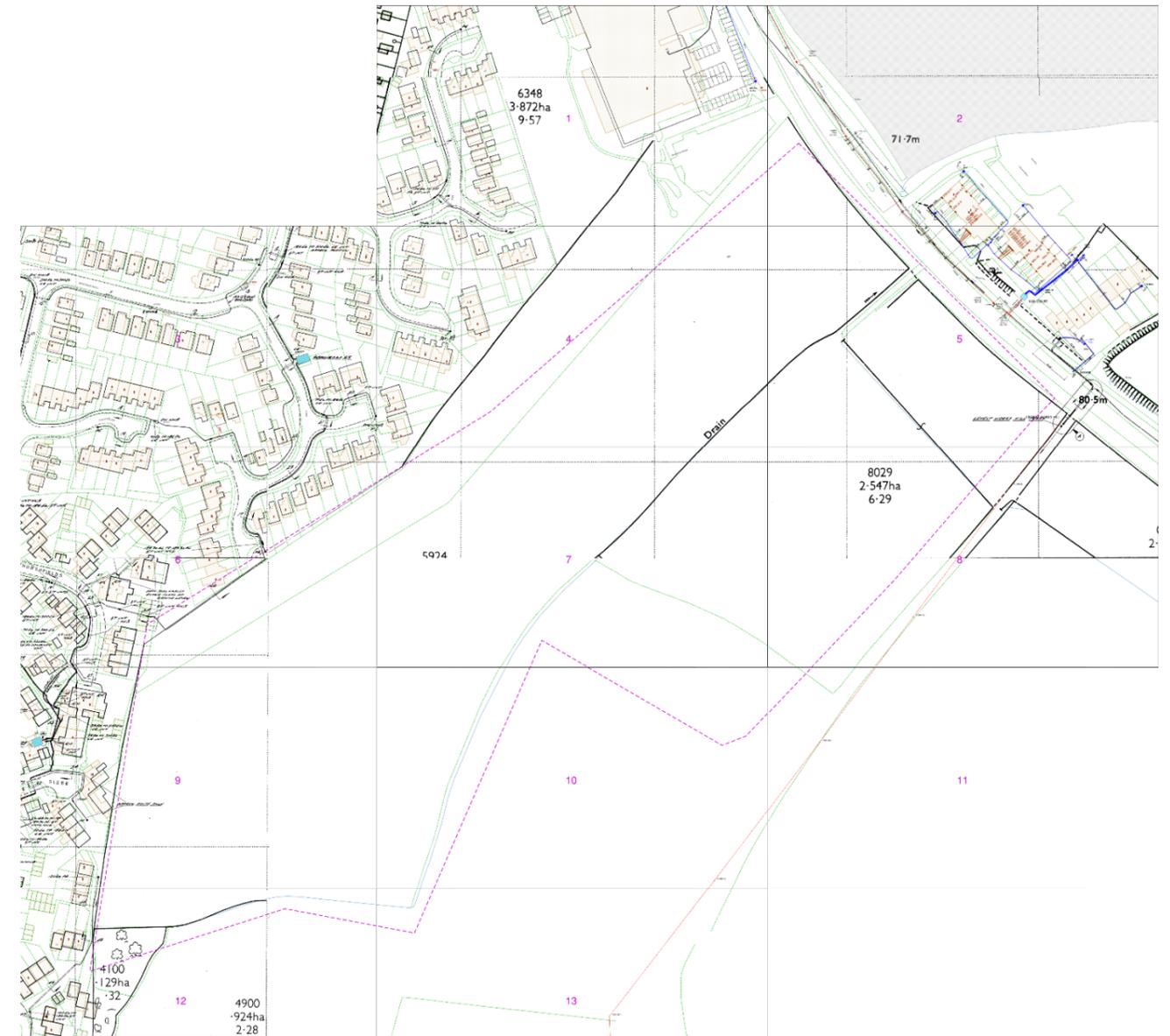
#### 5.1.3 DISCONNECTIONS

No required disconnections indicated.

#### 5.1.4 CONNECTIONS

The site will look to connect to the local HV network. Future service connections should originate from the network running along Thaxted Road. The development will then need to incorporate a new substation to provide LV power to the residential units.

**ACTION** Once anticipated electricity consumption has been calculated for the site and substation locations have been agreed, applications should be made to UKPN for electricity connections.



NetMAP system	Scanned image	Description
		Over 33kV and up to 132kV
		Over 11kV and up to 33kV
		Over 230/400V and up to 11kV (HV) cable route
		230/400V (LV) cable route
		Pilot cable route
<small>(Only shown this way if independent from HV cable route)</small>		
<small>Abandoned cables are shown and labelled as such when applicable</small>		

Figure 5 – UKPN Asset Location Search Electricity Plan<sup>5</sup>.

<sup>5</sup> UKPN Asset Location Search Electricity Plan (Job ref: 25034021).

## 6.0 TELECOMMUNICATIONS

### 6.1 EXISTING INFRASTRUCTURE

The existing telecommunications infrastructure information has been acquired and analysed to determine any potential impacts on the proposed development site.

The following information is based on the record documents kept by the public utility supply providers contacted and the site services record drawings produced by Openreach.

As such RGL cannot guarantee the accuracy of this information and the information used is assumed to be the latest version(s) held by the public utility supply providers at the time of writing this report.

Openreach (a BT Group Business) maintains a network of telecommunications infrastructure in the surrounding area.

Correspondence with Openreach in 18<sup>th</sup> March '22 provided information on existing telecommunications infrastructure in the vicinity of the proposed development site.

The relevant information is shown in Figures 6.

#### 6.1.1 OBSERVATIONS

Telecommunications infrastructure does not seem to be indicated within the site boundary as shown within figure 6.

Openreach infrastructure is present running along the site boundary as it follows Thaxted Road. This infrastructure does not appear to interfere with the footprint of the proposed development.

Telecommunications infrastructure is also present running along boundary with the housing estate site West of the proposed development.

A telecoms box is shown present on the site boundary to the East of the site.

#### 6.1.2 DIVERSIONS

**RISK** telecoms infrastructure may interfere with access roads into site.

#### 6.1.3 DISCONNECTIONS

No required disconnections indicated.

#### 6.1.4 CONNECTIONS

Future service connections to the site should originate from the infrastructure running along Thaxted Road.



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

Figure 6 – Openreach Asset Location Map<sup>6</sup>

<sup>6</sup> Openreach Asset Location Map (Map Ref – TL5462637265)

## 7.0 SUMMARY

A search of public utility supplies/records was undertaken to determine public utility supplies/assets that exist on or near the development site and to determine any impact of overhead/buried services on the development.

The existing public utility supplies considered within this document are surface water drainage, foul water drainage, clean water, gas, electricity and telecommunications.

Record drawings have been reviewed and our observations are summarised below:

SERVICE	EXISTING SERVICES WITHIN SITE BOUNDARY	SERVICES AVAILABLE FOR SITE
Disposal Systems (Sewerage)	No.	Yes – New foul drainage infrastructure to the existing sewage works.
Clean Water	No.	Yes - Future service connections to the site should originate from distribution main running along Thaxted Road. <b>ACTION</b> Once anticipated water consumption has been calculated for the site, applications should be made to Affinity Water for new water connections.
Natural Gas	Yes - Natural gas infrastructure is present running through the centre of the site. This pipework has been successfully integrated into the development with sufficient buffer being applied. No diversions required.	Yes – Future service connections to the site should originate from the medium pressure main running along the infrastructure within the site perimeters <b>ACTION</b> Once anticipated gas consumption has been calculated for the site, applications should be made to Cadent for new gas connections.
Electricity	Yes – Electrical infrastructure is shown present within the along the site boundary. However existing high voltage cables will likely not need to be diverted to allow construction of the proposed development.	Yes – The site will look to connect to the local HV network. Future service connections should originate from the network running along Thaxted Road. New substation to be installed to provide LV power to the residential units. <b>ACTION</b> Once anticipated electricity consumption has been calculated for the site and substation locations have been agreed, applications should be made to UKPN for electricity connections.
Telecommunications	No – Though telecoms box present at the site boundary may interfere with planned access roads. <b>RISK</b> telecoms infrastructure may interfere with access roads into site.	Yes – Future service connections to the site should originate from the infrastructure running along Thaxted Road.

Table 1: Summary of Observations.

APPENDIX A – PUBLIC UTILITY SUPPLIES SEARCH RESULTS

1



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Date: 18/03/22

Scale: 1:1250

Map Centre: 554626,237265

Data updated: 31/01/22

Our Ref: 809798 - 1

Wastewater Plan A3

This plan is provided by Anglian Water pursuant its obligations under the Water Industry Act 1991 sections 198 or 199. It must be used in conjunction with any search results attached. The information on this plan is based on data currently recorded but position must be regarded as approximate. Service pipes, private sewers and drains are generally not shown. Users of this map are strongly advised to commission their own survey of the area shown on the plan before carrying out any works. The actual position of all apparatus MUST be established by trial holes. No liability whatsoever, including liability for negligence, is accepted by Anglian Water for any error or inaccuracy or omission, including the failure to accurately record, or record at all, the location of any water main, discharge pipe, sewer or disposal main or any item of apparatus. This information is valid for the date printed. This plan is produced by Anglian Water Services Limited (c) Crown copyright and database rights 2022 Ordnance Survey 100022432. This map is to be used for the purposes of viewing the location of Anglian Water plant only. Any other uses of the map data or further copies is not permitted. This notice is not intended to exclude or restrict liability for death or personal injury resulting from negligence.

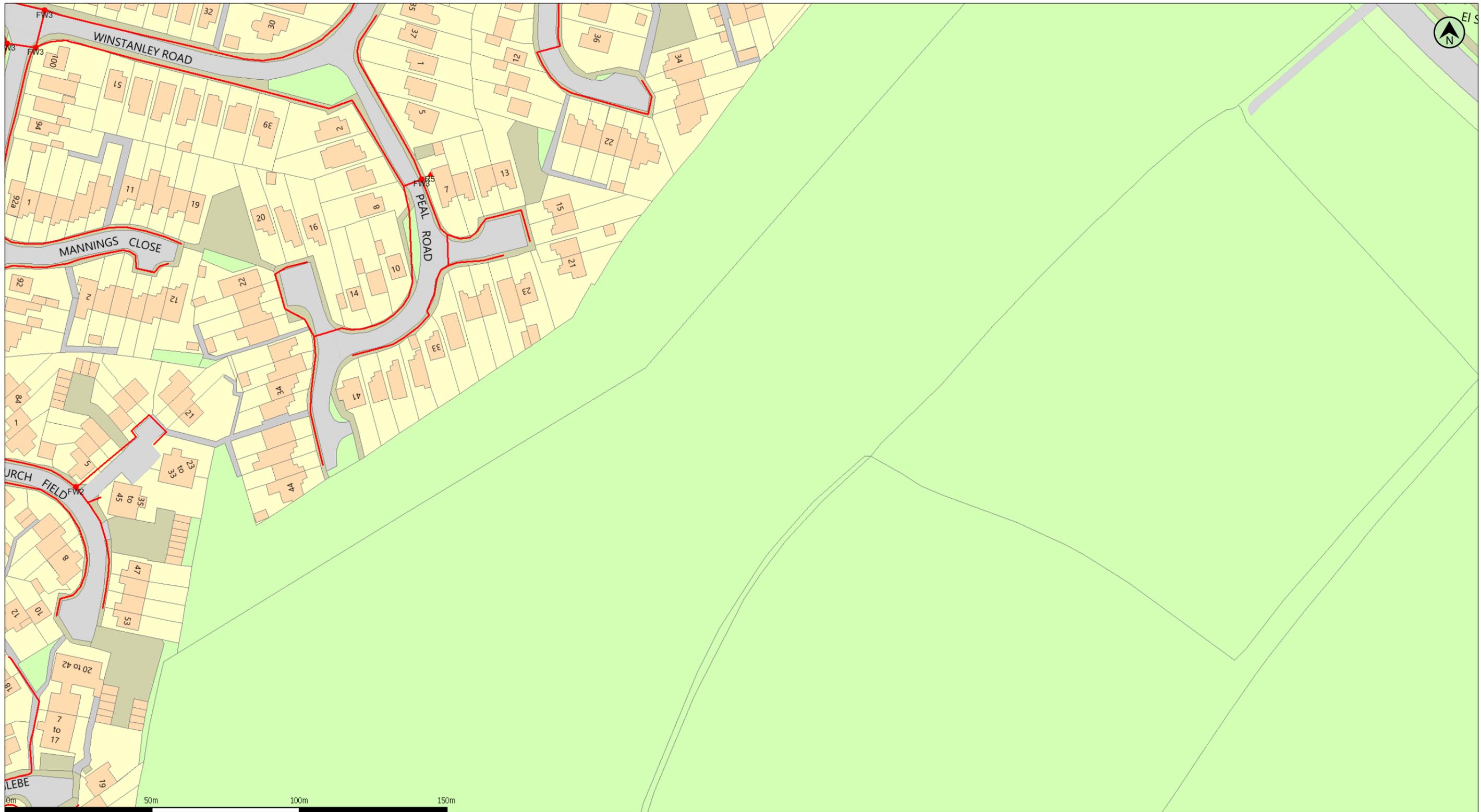
Foul Sewer					
Surface Sewer		Outfall*			
Combined Sewer					
Final Effluent		Inlet*			
Rising Main*					
Private Sewer*		Manhole*			
Decommissioned Sewer*					

\*(Colour denotes effluent type)

22-0222 Site1

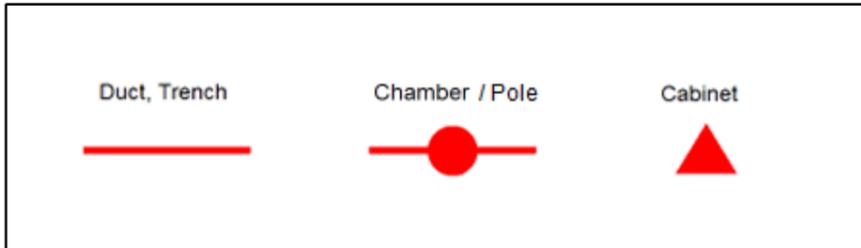






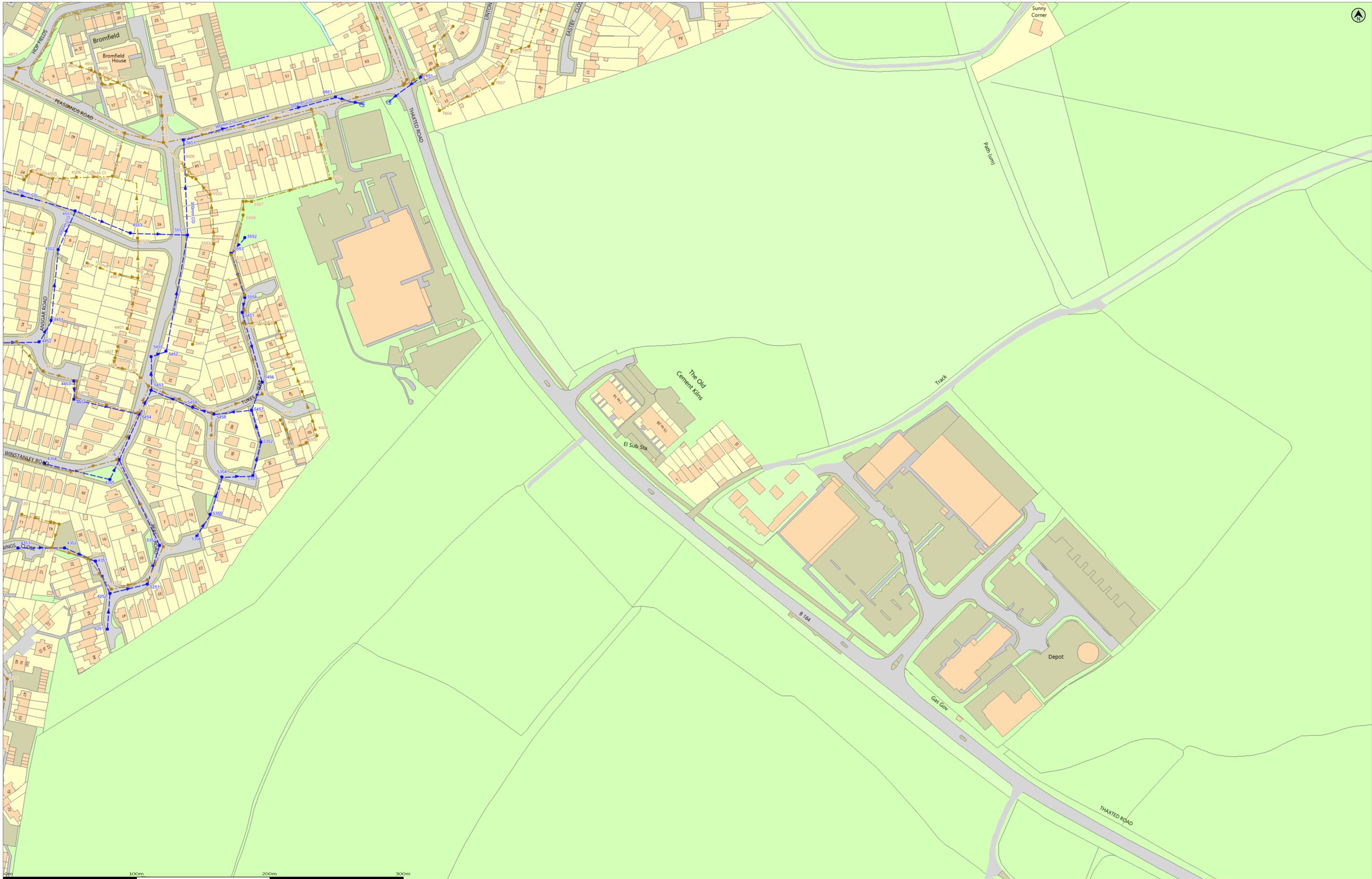
(c) Crown copyright and database rights 2022 Ordnance Survey 100019209      Date: 18/03/22      Scale: 1:1250      Map Centre: 554626,237265      Data updated: 25/01/22      Our Ref: 809798 - 2      Telecoms Plan A3

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 2022 Ordnance Survey 100019209.



22-0222 Site1





(c) Crown copyright and database rights 2022 Ordnance Survey 100022432 Date: 15/11/22 Scale: 1:1250 Map Centre: 554918,237400 Data updated: 31/10/22 Our Ref: 1003969 - 1 Wastewater Plan A1

This plan is provided by Anglian Water pursuant to its obligations under the Water Industry Act 1991 sections 198 or 199. It must be used in conjunction with any search results attached. The information on this plan is based on data currently recorded but position must be regarded as approximate. Service pipes, private sewers and drains are generally not shown. Users of this map are strongly advised to commission their own survey of the area shown on the plan before carrying out any works. The actual position of all apparatus MUST be established by trial holes. No liability whatsoever, including liability for negligence, is accepted by Anglian Water for any error or inaccuracy or omission, including the failure to accurately record, or record at all, the location of any water main, discharge pipe, sewer or disposal main or any item of apparatus. This information is valid for the date printed. This plan is produced by Anglian Water Services Limited (c) Crown copyright and database rights 2022 Ordnance Survey 100022432. This map is to be used for the purposes of viewing the location of Anglian Water plant only. Any other uses of the map data or further copies is not permitted. This notice is not intended to exclude or restrict liability for death or personal injury resulting from negligence.

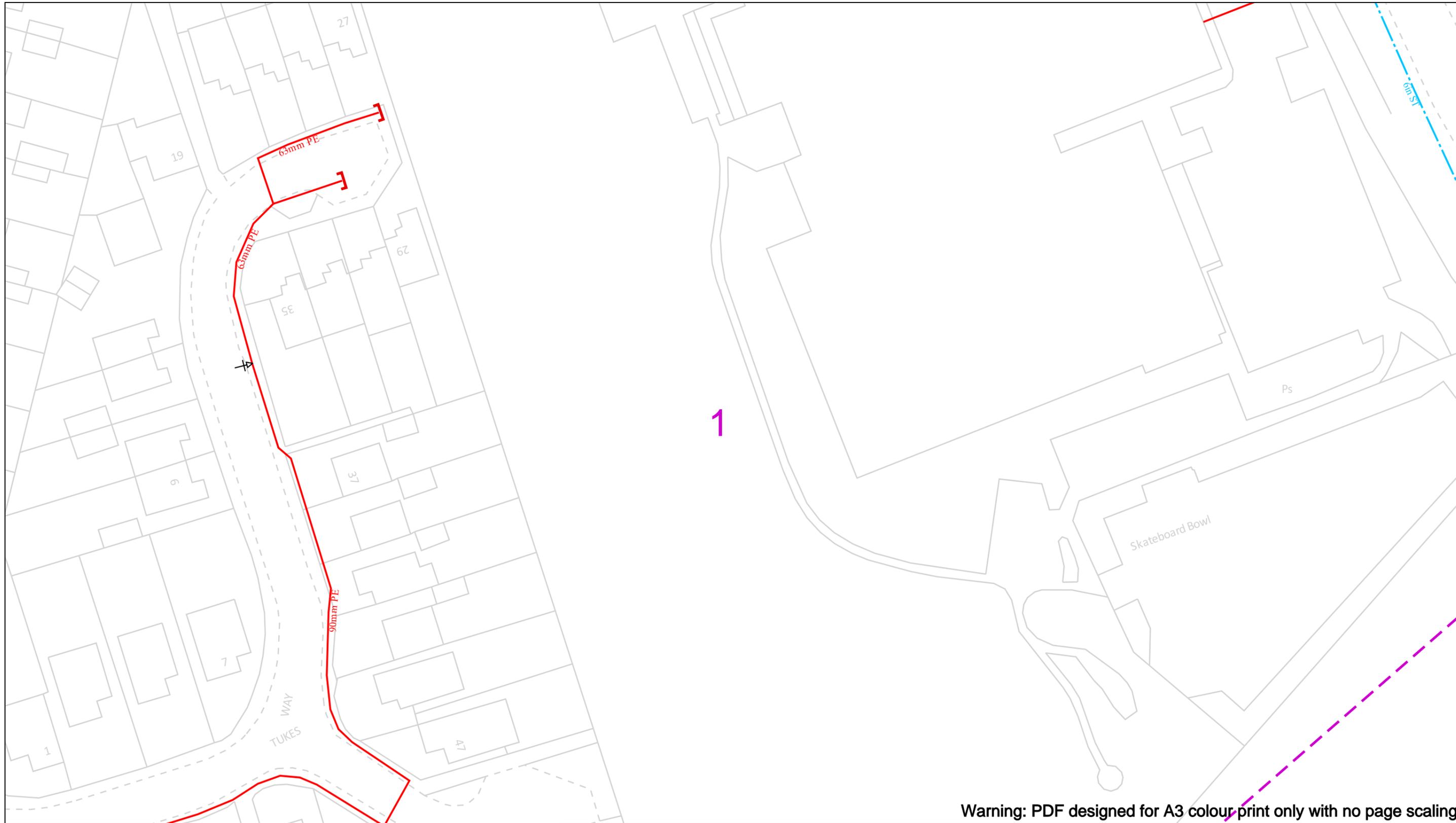
Foul Sewer		Outfall*	
Surface Sewer		Manhole*	
Combined Sewer		Manhole*	
Final Effluent		Manhole*	
Rising Main*		Manhole*	
Private Sewer*		Manhole*	
Decommissioned Sewer*		Manhole*	
		Sewage Treatment Works	
		Public Pumping Station	
		Decommissioned Pumping Station	
			22-0222 Saffron W

\*Colour denotes effluent type









View extent: 200m, 115m

**IMPORTANT NOTICES**

This plan shows these pipes owned by Cadent Gas Limited in its role as a Licensed Gas Transporter (GT). Gas pipes owned by other GT's or otherwise privately owned may be present in this area. Information with regards 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. Service pipes, valves, syphons, stub connections etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Cadent Gas Limited or their agents, servants or contractors for any errors or omission. 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 this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

Date Requested: 15/03/2022  
 Job Reference: 25034021  
 Site Location: 554691 237274  
 Requested by:  
 Miss Tracey Mehew  
 Your Scheme/Reference: 22-0222 1

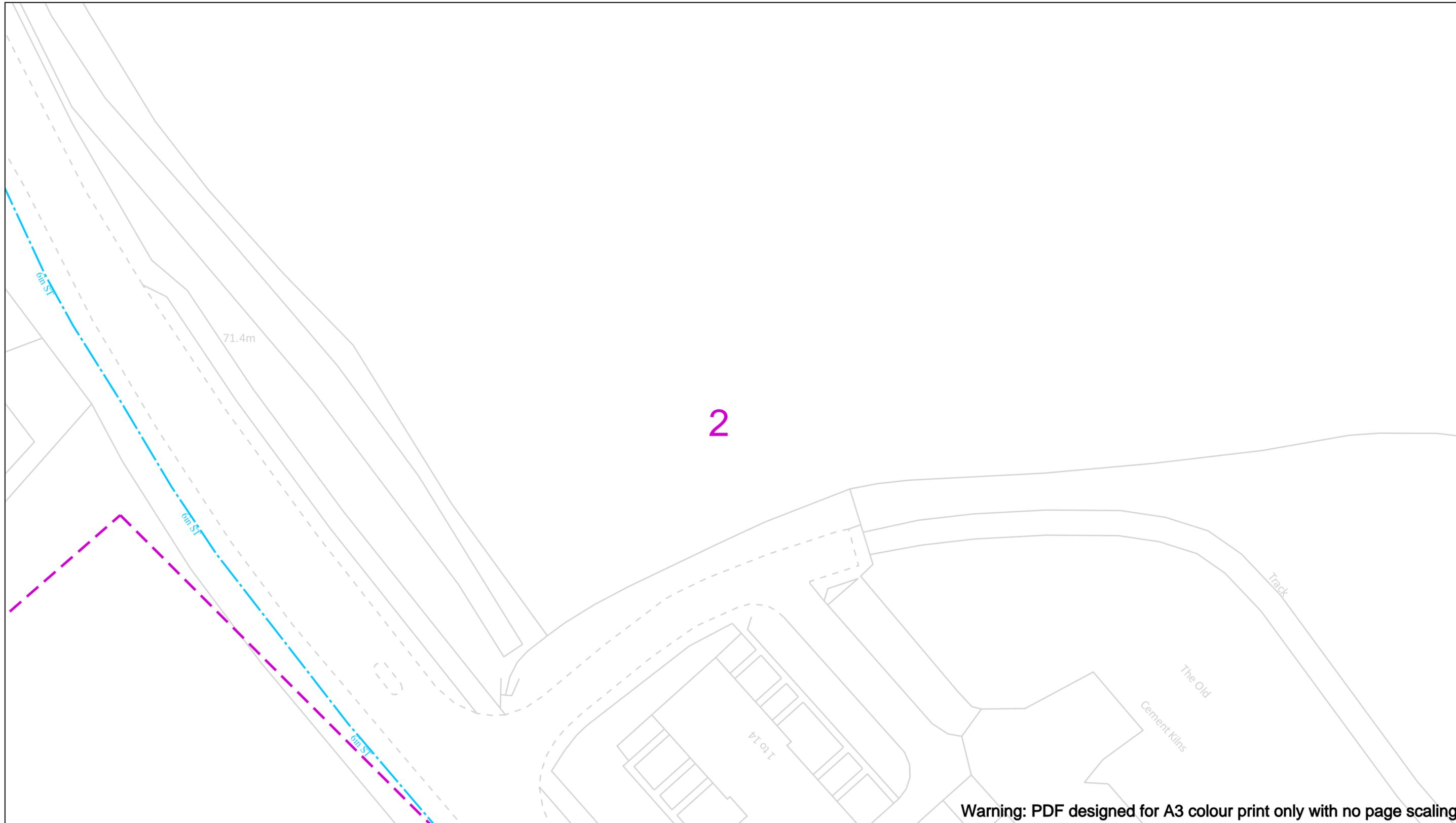
Scale: 1:500 (When plotted at A3)

**In case of an emergency call** XXXXXXXXXX

50m

<b>Dig Sites</b>	<b>Area:</b>	<b>Line:</b>
LP Mains	MP Mains	Valve
IP Mains	LHP Mains	Depth of cover
		Syphon
		Diameter Change
		Material Change
		Out of Standard Service





Warning: PDF designed for A3 colour print only with no page scaling

Date Requested: 15/03/2022  
 Job Reference: 25034021  
 Site Location: 554691 237274  
 Requested by:  
 Miss Tracey Mehew  
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View extent: 200m, 115m

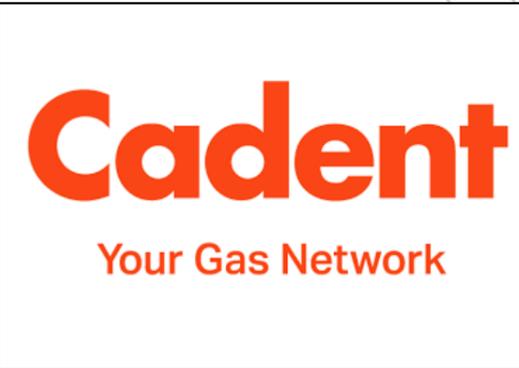
**IMPORTANT NOTICES**

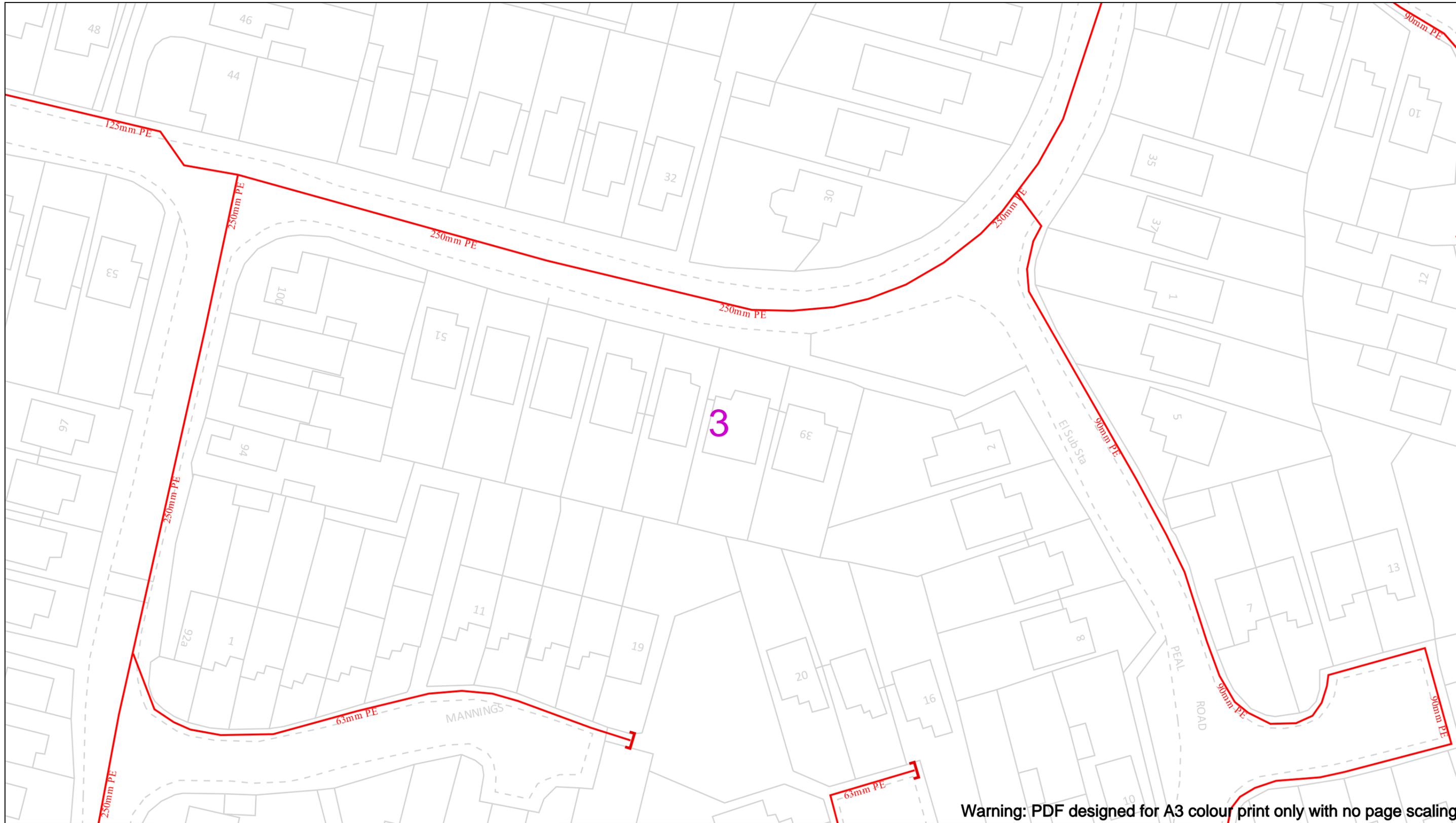
This plan shows these pipes owned by Cadent Gas Limited in its role as a Licensed Gas Transporter (GT). Gas pipes owned by other GT's or otherwise privately owned may be present in this area. Information with regards to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Cadent Gas Limited or their agents, servants or contractors for any errors or omission. 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 this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

**In case of an emergency call** [REDACTED]

50m

<b>Dig Sites</b>	Area:	Line:		Valve		Diameter Change
	LP Mains			Depth of cover		Material Change
	MP Mains			Syphon		Out of Standard Service
	IP Mains					
	LHP Mains					





Date Requested: 15/03/2022  
 Job Reference: 25034021  
 Site Location: 554691 237274  
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 Miss Tracey Mehew  
 Your Scheme/Reference: 22-0222 1

Scale: 1:500 (When plotted at A3)

View extent: 200m, 115m

**IMPORTANT NOTICES**

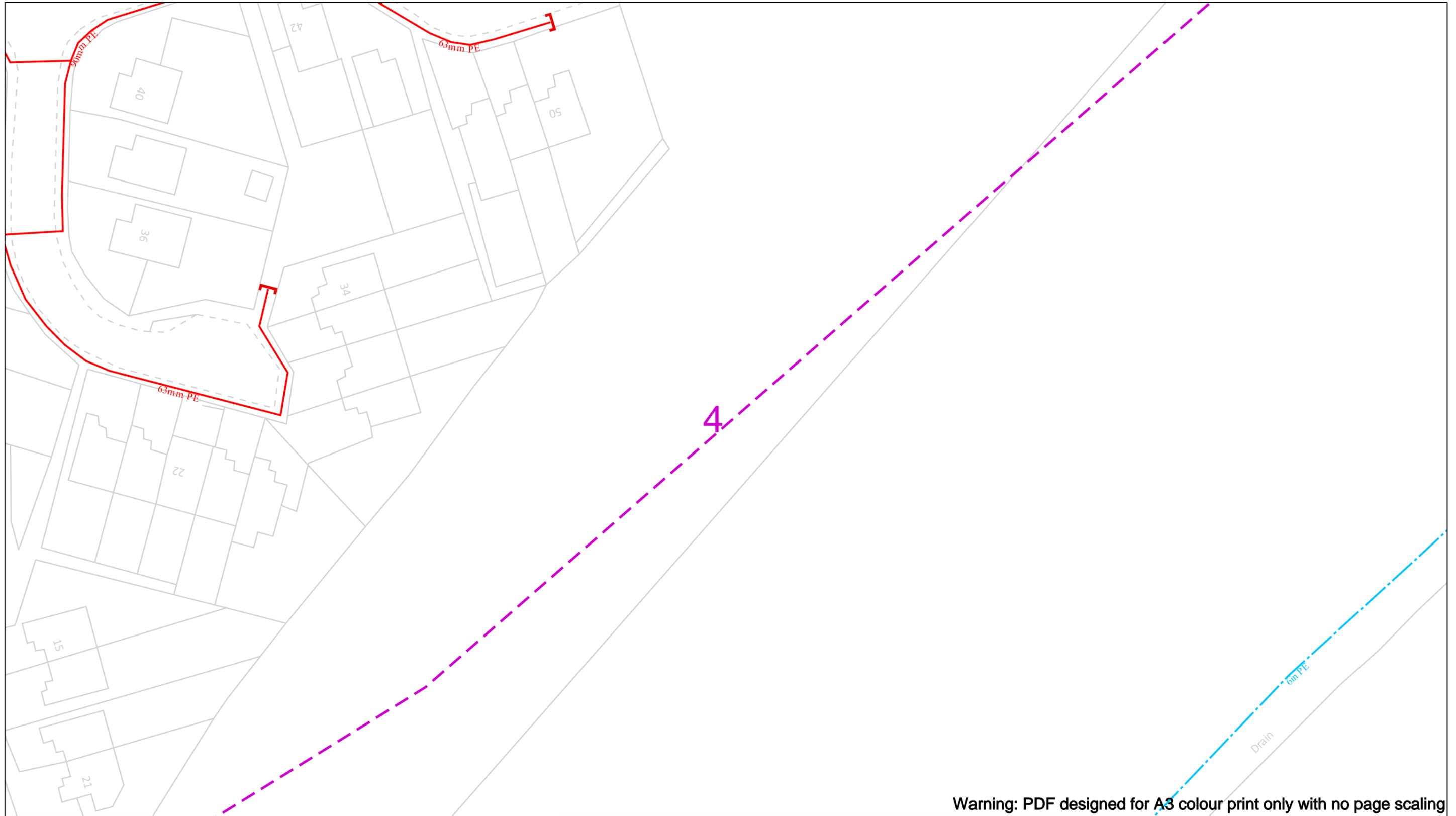
This plan shows these pipes owned by Cadent Gas Limited in its role as a Licensed Gas Transporter (GT). Gas pipes owned by other GT's or otherwise privately owned may be present in this area. Information with regards to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Cadent Gas Limited or their agents, servants or contractors for any errors or omission. 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 this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

**In case of an emergency call** XXXXXXXXXX

50m

<b>Dig Sites</b>	<b>Area:</b>	<b>Line:</b>		Valve		Diameter Change
	LP Mains			Depth of cover		Material Change
	MP Mains			Syphon		Out of Standard Service
	IP Mains					
	LHP Mains					

**Cadent**  
Your Gas Network



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 Miss Tracey Mehew  
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View extent: 200m, 115m

**IMPORTANT NOTICES**

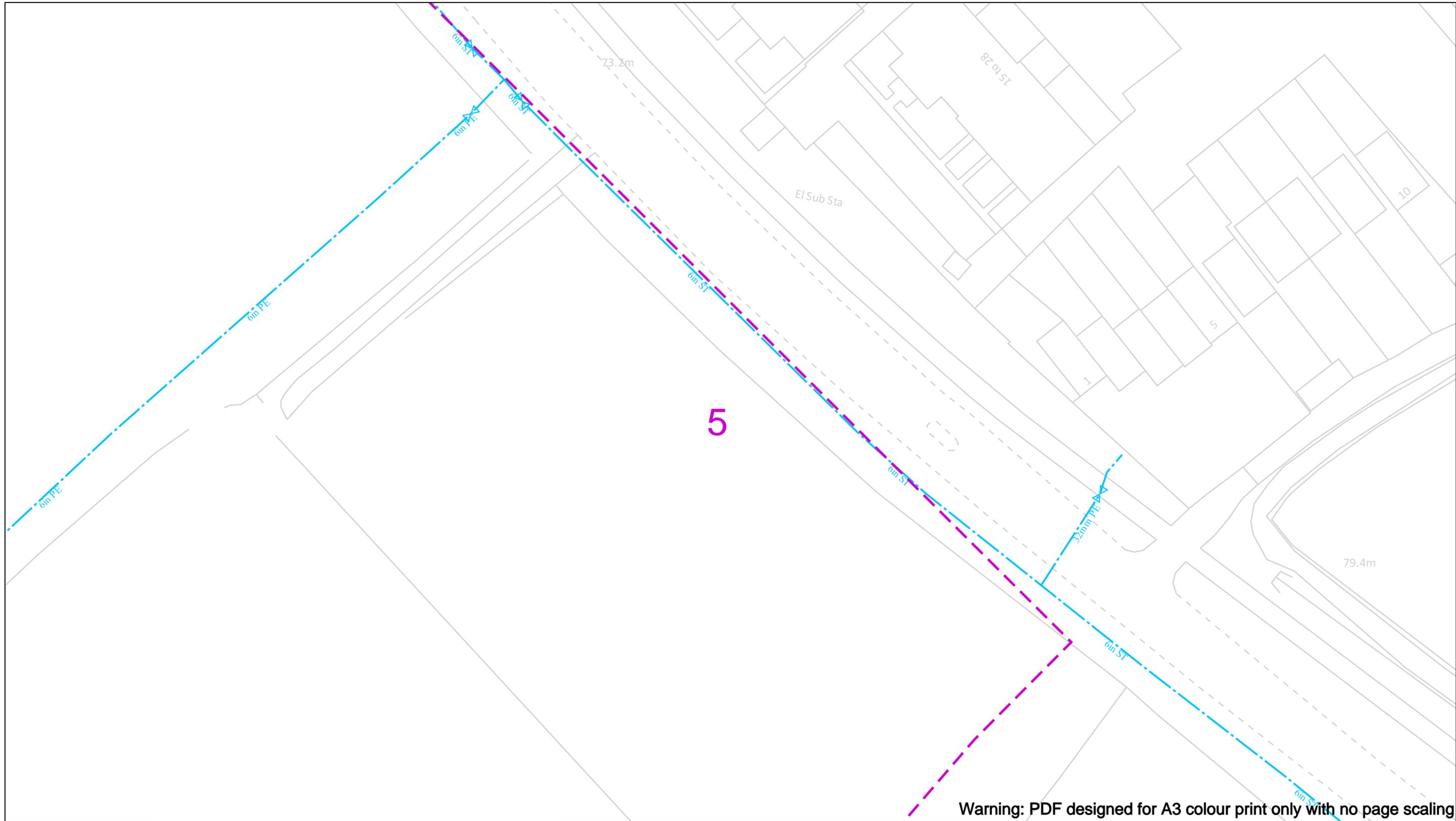
This plan shows these pipes owned by Cadent Gas Limited in its role as a Licensed Gas Transporter (GT). Gas pipes owned by other GT's or otherwise privately owned may be present in this area. Information with regards to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Cadent Gas Limited or their agents, servants or contractors for any errors or omission. 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 this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

**In case of an emergency call** XXXXXXXXXX

50m

<b>Dig Sites</b>	<b>Area:</b>	<b>Line:</b>		Valve		Diameter Change
	LP Mains			Depth of cover		Material Change
	MP Mains			Syphon		Out of Standard Service
	IP Mains					
	LHP Mains					





Warning: PDF designed for A3 colour print only with no page scaling

Date Requested: 15/03/2022  
 Job Reference: 25034021  
 Site Location: 554691 237274  
 Requested by:  
 Miss Tracey Mehew  
 Your Scheme/Reference: 22-0222 1

View extent: 200m, 115m

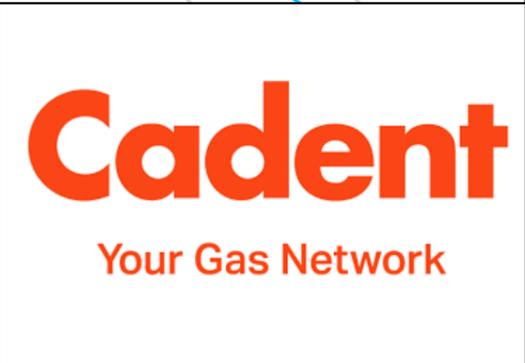
**IMPORTANT NOTICES**

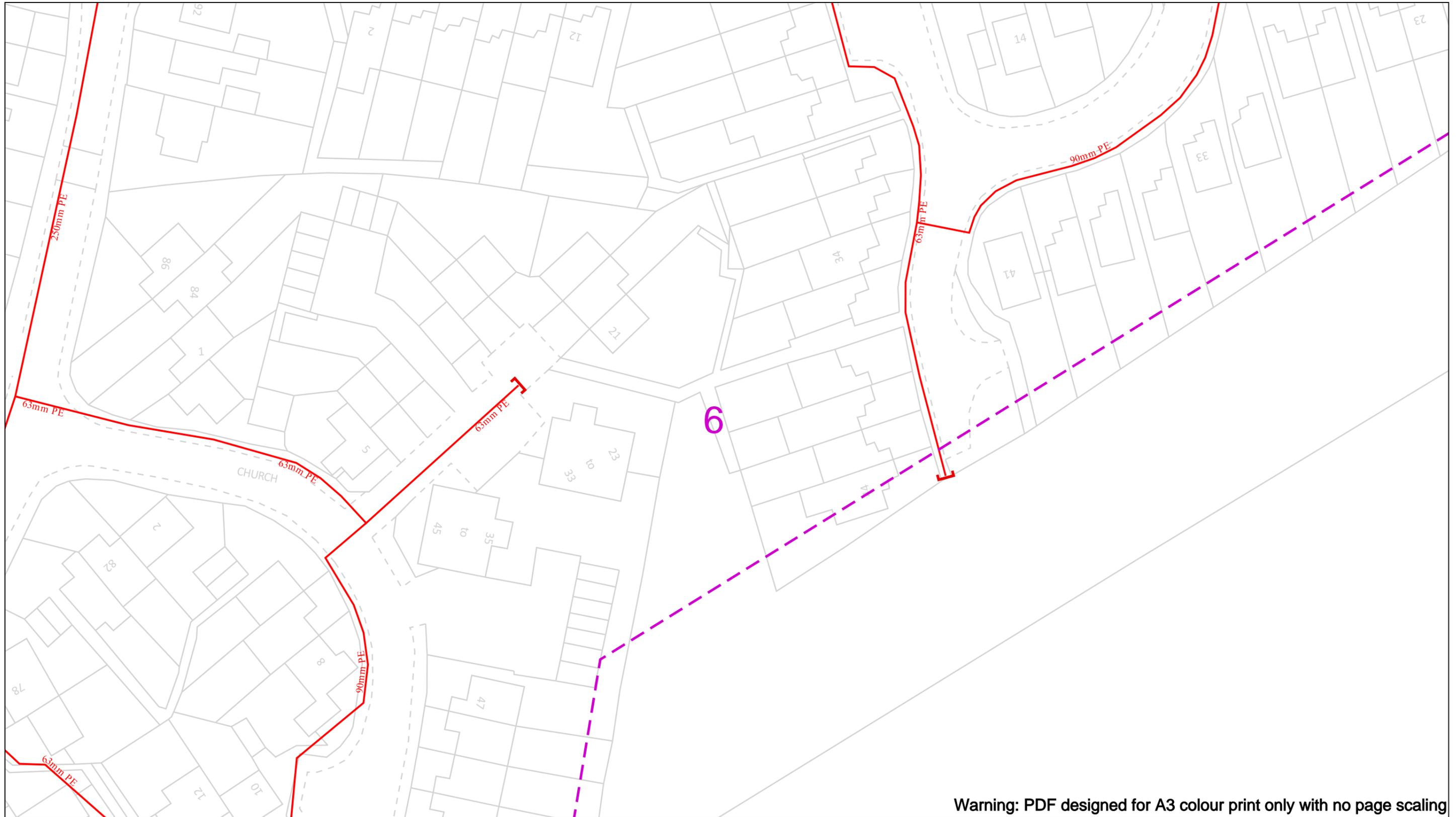
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**In case of an emergency call** [REDACTED]

50m

<b>Dig Sites</b>	<b>Area:</b> [Dashed Purple Box]	<b>Line:</b> [Dashed Purple Line]	Valve	Diameter Change
LP Mains	MP Mains	IP Mains	Depth of cover	Material Change
LHP Mains			Syphon	Out of Standard Service





Warning: PDF designed for A3 colour print only with no page scaling

Date Requested: 15/03/2022  
 Job Reference: 25034021  
 Site Location: 554691 237274  
 Requested by:  
 Miss Tracey Mehew  
 Your Scheme/Reference: 22-0222 1

Scale: 1:500 (When plotted at A3)

View extent: 200m, 115m

**IMPORTANT NOTICES**

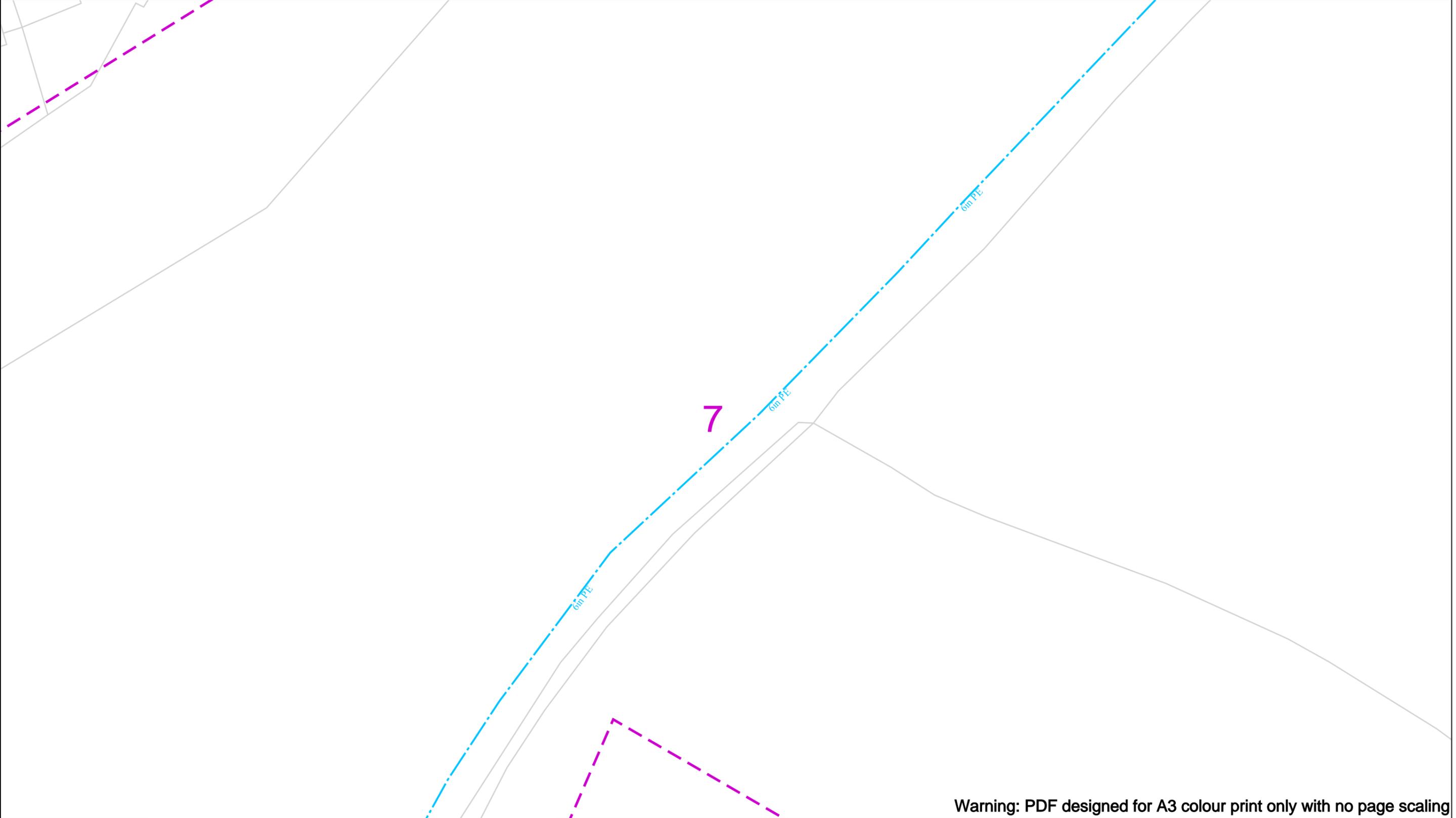
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**In case of an emergency call** XXXXXXXXXX

50m

<b>Dig Sites</b>	<b>Area:</b>	<b>Line:</b>		Valve		Diameter Change
	LP Mains			Depth of cover		Material Change
	MP Mains			Syphon		Out of Standard Service
	IP Mains					
	LHP Mains					





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Date Requested: 15/03/2022  
 Job Reference: 25034021  
 Site Location: 554691 237274  
 Requested by:  
 Miss Tracey Mehew  
 Your Scheme/Reference: 22-0222 1

View extent: 200m, 115m

**IMPORTANT NOTICES**

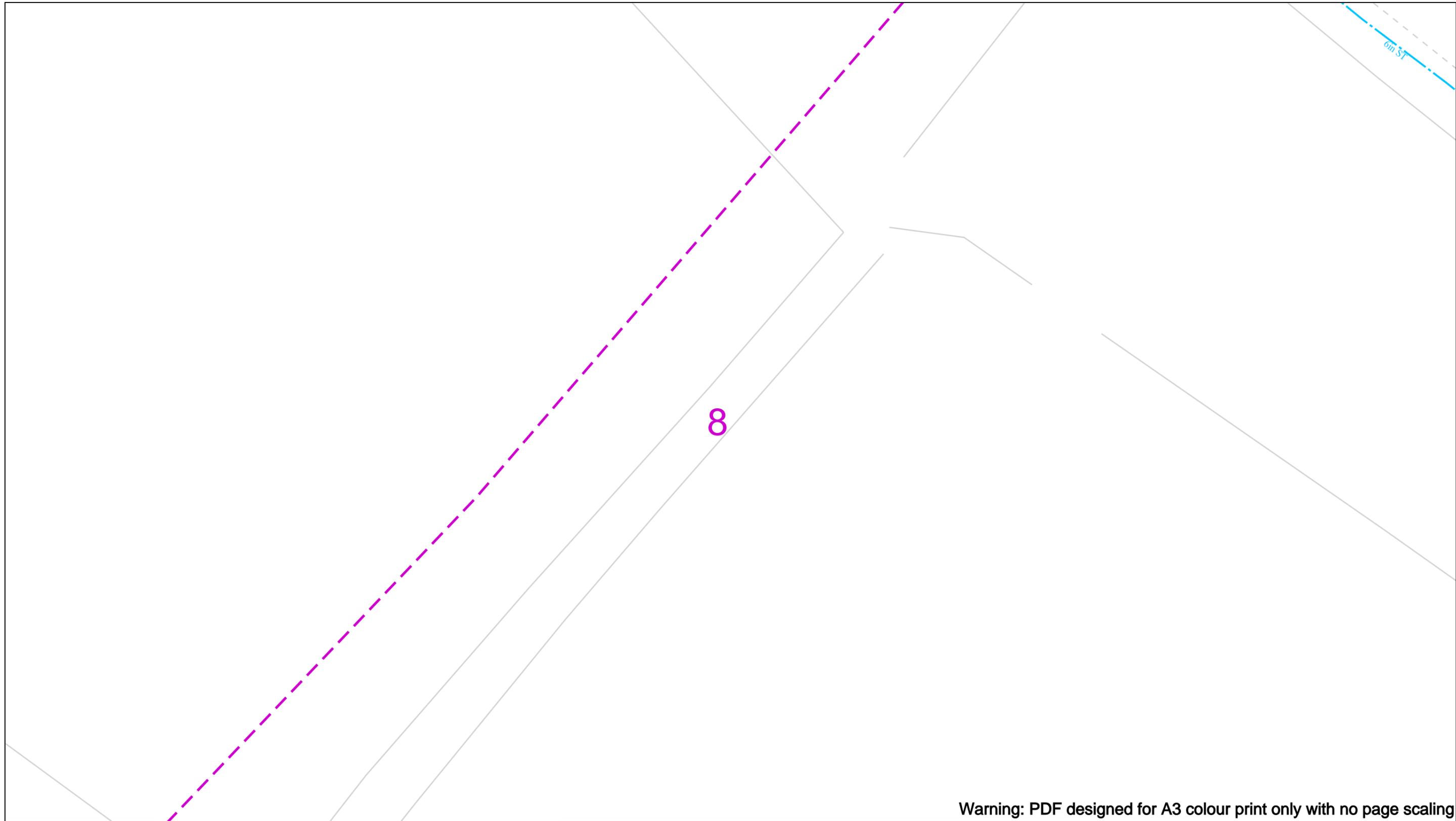
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**In case of an emergency** [Redacted]

50m

<b>Dig Sites</b>	<b>Area:</b> [Purple dashed box]	<b>Line:</b> [Purple dashed line]	Valve	Diameter Change
LP Mains	MP Mains	IP Mains	Depth of cover	Material Change
LHP Mains			Syphon	Out of Standard Service





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Date Requested: 15/03/2022  
 Job Reference: 25034021  
 Site Location: 554691 237274

Requested by:  
 Miss Tracey Mehew  
 Your Scheme/Reference: 22-0222 1

Scale: 1:500 (When plotted at A3)

View extent: 200m, 115m

**IMPORTANT NOTICES**

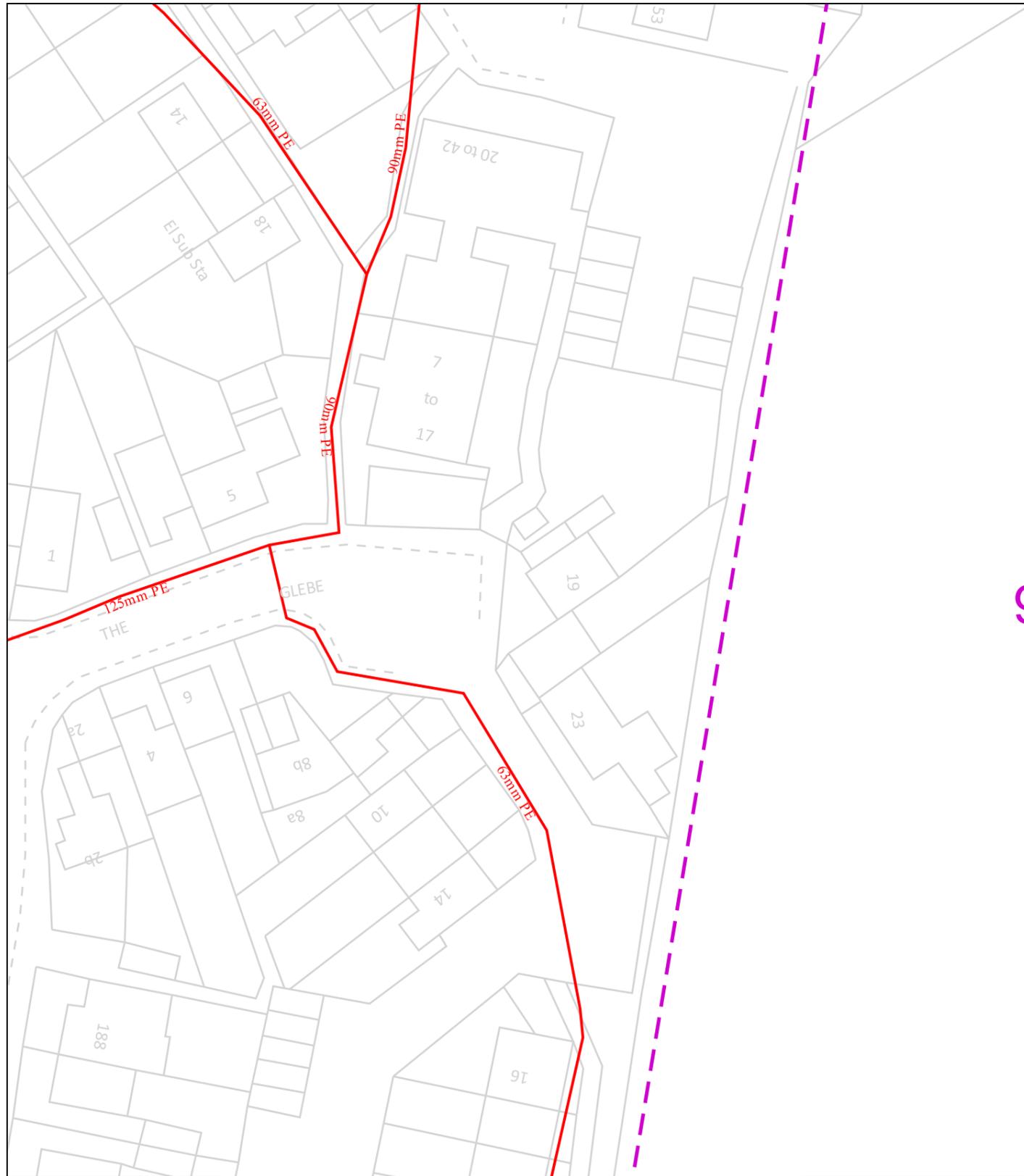
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**In case of an emergency call** [REDACTED]

50m

<b>Dig Sites</b>	Area:	Line:		
	LP Mains		Valve	
	MP Mains		Depth of cover	
	IP Mains		Syphon	
	LHP Mains			





9

Warning: PDF designed for A3 colour print only with no page scaling

Date Requested: 15/03/2022  
 Job Reference: 25034021  
 Site Location: 554691 237274  
 Requested by:  
 Miss Tracey Mehew  
 Your Scheme/Reference: 22-0222 1

Scale: 1:500 (When plotted at A3)

View extent: 200m, 115m

**IMPORTANT NOTICES**

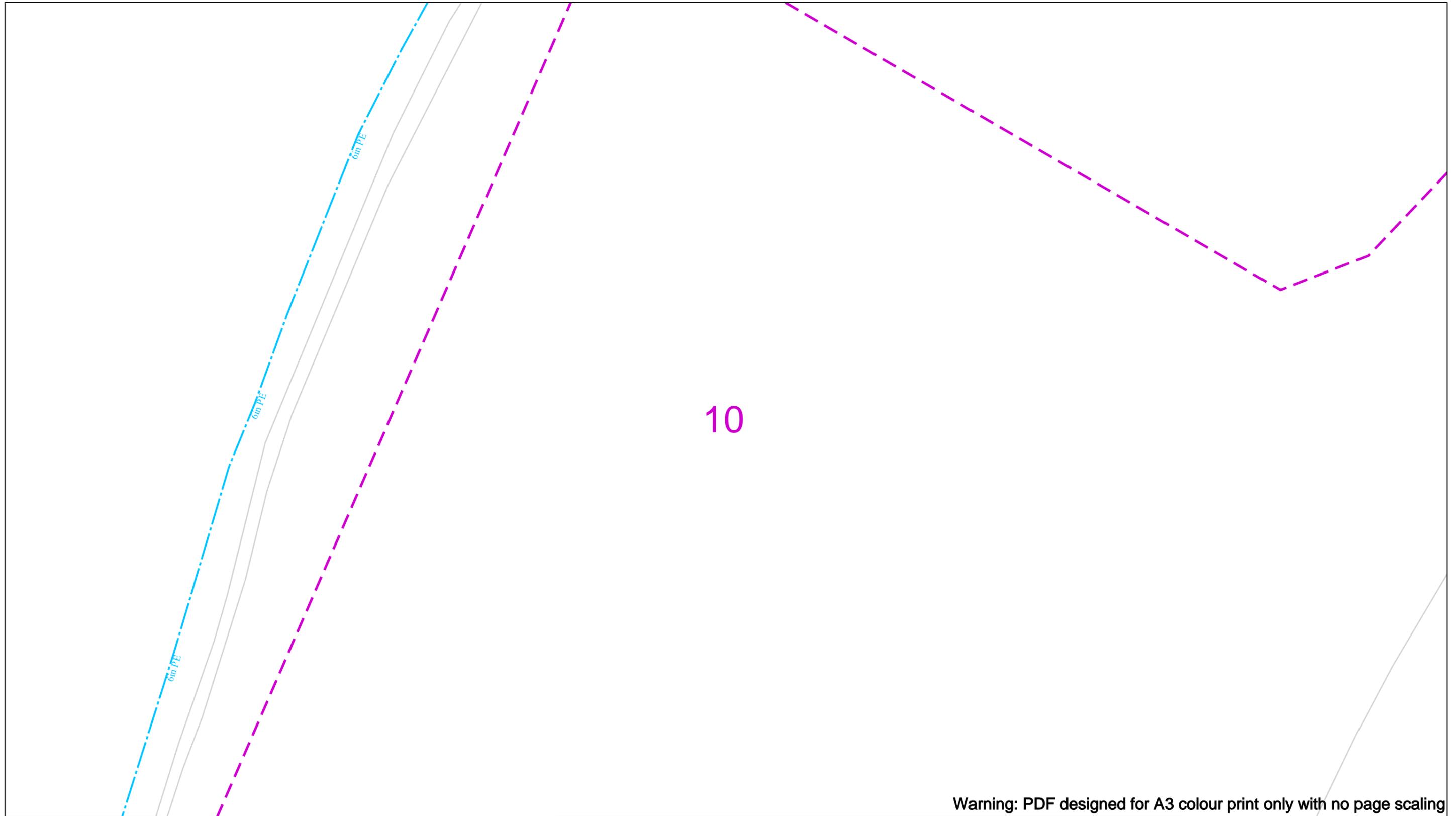
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**In case of an emergency call** XXXXXXXXXX

50m

<b>Dig Sites</b>	<b>Area:</b>	<b>Line:</b>		Valve		Diameter Change
	LP Mains			Depth of cover		Material Change
	MP Mains			Syphon		Out of Standard Service
	IP Mains					
	LHP Mains					





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Date Requested: 15/03/2022  
 Job Reference: 25034021  
 Site Location: 554691 237274  
 Requested by:  
 Miss Tracey Mehew  
 Your Scheme/Reference: 22-0222 1

Scale: 1:500 (When plotted at A3)

View extent: 200m, 115m

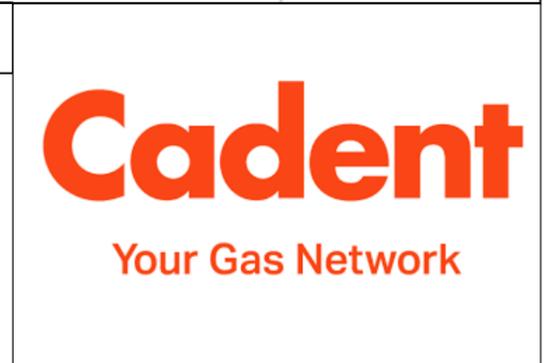
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**In case of an emergency call** [REDACTED]

50m

<b>Dig Sites</b>	<b>Area:</b> [Dashed Purple Box]	<b>Line:</b> [Dashed Purple Line]		
[Red Solid Line] LP Mains	[Blue Dash-Dot Line] MP Mains	[Green Dashed Line] IP Mains	[Orange Dashed Line] LHP Mains	[Valve Symbol] Valve
				[Depth of Cover Symbol] Depth of cover
				[Syphon Symbol] Syphon
				[Diameter Change Symbol] Diameter Change
				[Material Change Symbol] Material Change
				[Out of Standard Service Symbol] Out of Standard Service



11

Warning: PDF designed for A3 colour print only with no page scaling

View extent: 200m, 115m

IMPORTANT NOTICES

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Date Requested: 15/03/2022  
Job Reference: 25034021  
Site Location: 554691 237274  
Requested by:  
Miss Tracey Mehew  
Your Scheme/Reference: 22-0222 1

Scale: 1:500 (When plotted at A3)

In case of an emergency call [REDACTED]



Dig Sites

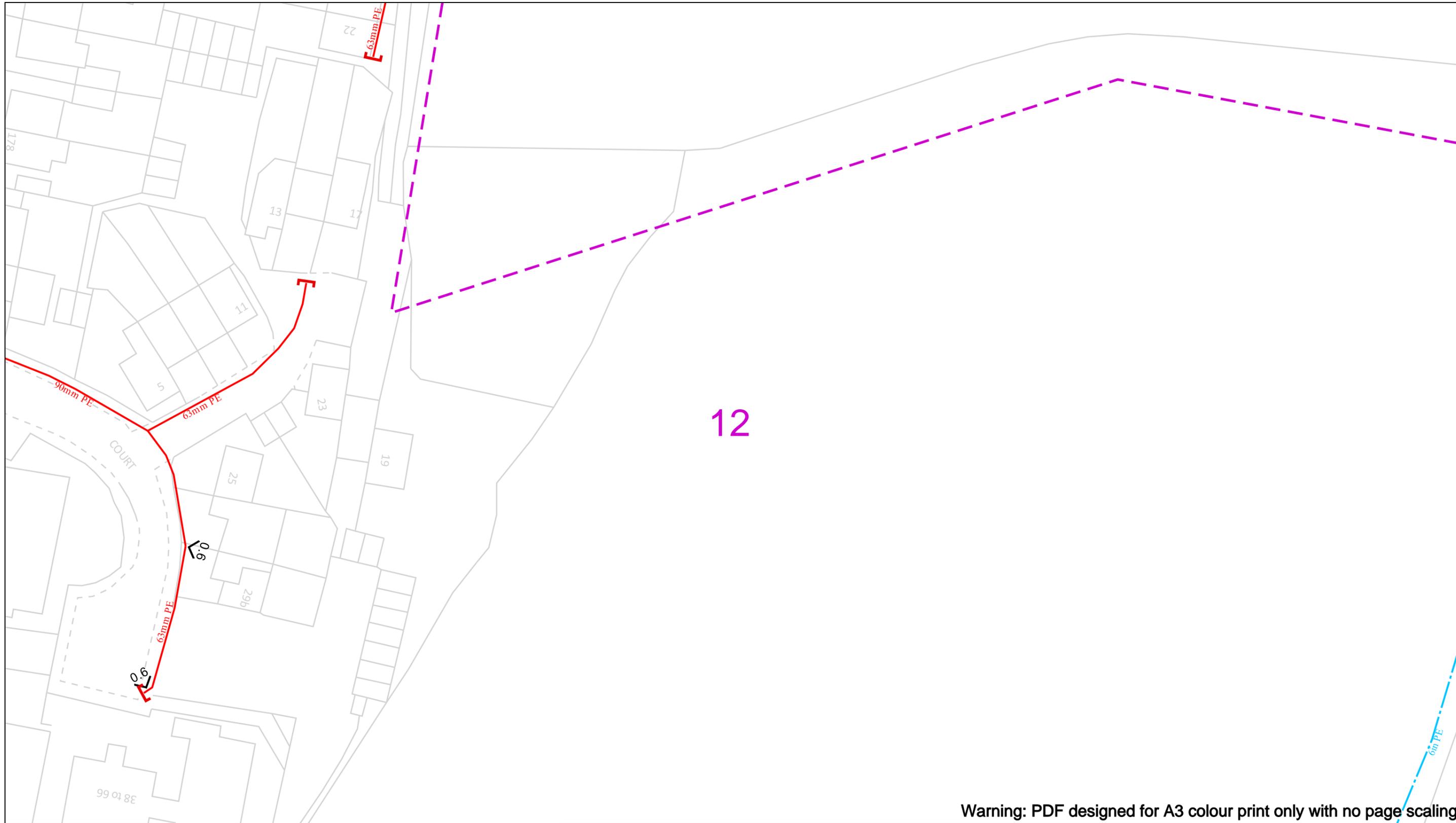
Area: [Dashed Purple Box] Line: [Dashed Purple Line]

- LP Mains
- MP Mains
- IP Mains
- LHP Mains

- Valve
- Depth of cover
- Syphon

- Diameter Change
- Material Change
- Out of Standard Service





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Date Requested: 15/03/2022  
 Job Reference: 25034021  
 Site Location: 554691 237274  
 Requested by:  
 Miss Tracey Mehew  
 Your Scheme/Reference: 22-0222 1

View extent: 200m, 115m

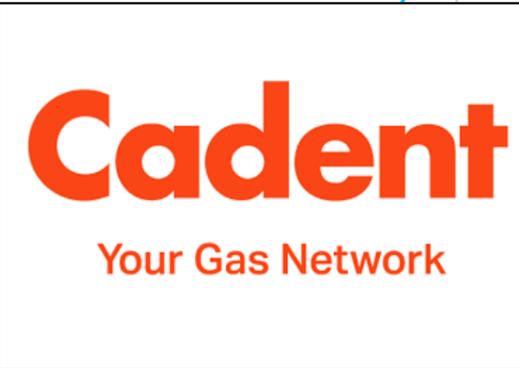
**IMPORTANT NOTICES**

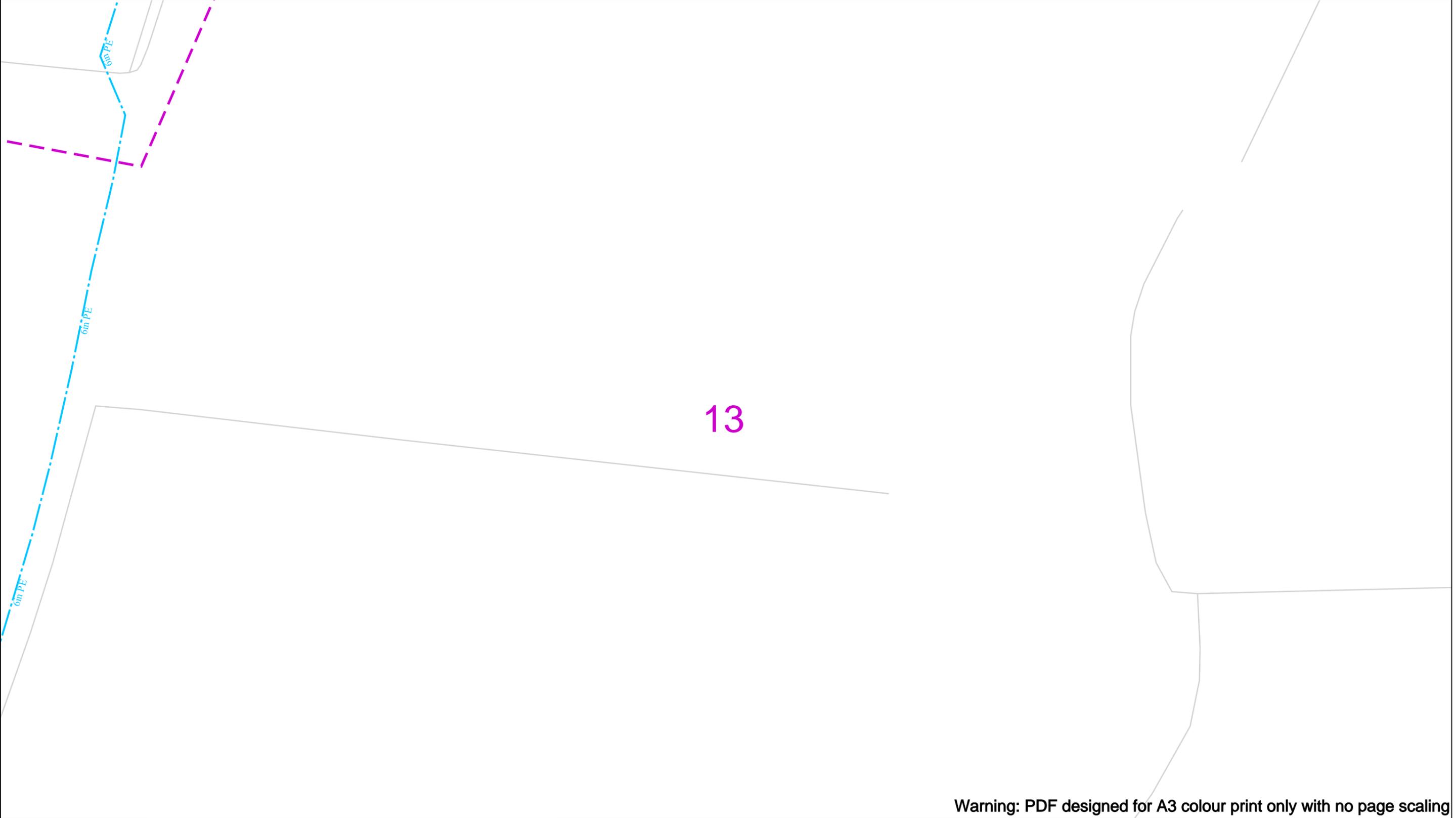
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**In case of an emergency call** [REDACTED]

50m

<b>Dig Sites</b>	<b>Area:</b> [Purple Dashed Box]	<b>Line:</b> [Purple Dashed Line]	Valve	Diameter Change
LP Mains			Depth of cover	Material Change
MP Mains			Syphon	Out of Standard Service
IP Mains				
LHP Mains				





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Date Requested: 15/03/2022  
 Job Reference: 25034021  
 Site Location: 554691 237274  
 Requested by:  
 Miss Tracey Mehew  
 Your Scheme/Reference: 22-0222 1

View extent: 200m, 115m

**IMPORTANT NOTICES**

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**In case of an emergency call** [REDACTED]

50m

<b>Dig Sites</b>	<b>Area:</b> [Purple dashed box]	<b>Line:</b> [Purple dashed line]		
[Red solid line]	LP Mains	[Valve symbol]	Valve	[Diameter Change symbol]
[Blue dashed line]	MP Mains	[Depth of cover symbol]	Depth of cover	[Material Change symbol]
[Green dashed line]	IP Mains	[Syphon symbol]	Syphon	[Out of Standard Service symbol]
[Orange dashed line]	LHP Mains			



Our Ref: 25034021      Your Ref: 22-0222 1

Friday, 18 March 2022

Tracey Mehew  
The Charles Parker Building Midland Road  
Higham Ferrers  
Northamptonshire  
NN10 8DN

Dear Tracey Mehew

Thank you for contacting us regarding UK Power Networks equipment at the above site. I have enclosed a copy of our records which show the electrical lines and/or electrical plant. I hope you find the information useful.

I have also enclosed a fact sheet which contains important information regarding the use of our plans and working around our equipment. Safety around our equipment is our number one priority so please ensure you have completed all workplace risk assessments before you begin any works.

Should your excavation affect our Extra High Voltage equipment (6.6 KV, 22 KV, 33 KV or 132 KV), please contact us to obtain a copy of the primary route drawings and associated cross sections.

If you have any further queries do not hesitate to contact us.

Plan Provision



This information is made available to you on the terms set out below. If you do not accept the terms of use set out in this fact sheet please do not use the plans and return them to UK Power Networks.

1. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk.
2. UK Power Networks does not exclude or limit its liability if it causes the death of any person or causes personal injury to a person where such death or personal injury is caused by its negligence.
3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise how for any loss, damage, costs, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.
4. The information about UK Power Networks electrical plant and/or electric lines provided to you belongs to and remains the property of UK Power Networks. You must not alter it in any respect.
5. The information provided to you about the electrical plant and/or electric lines depicted on the plans may NOT be a complete record of such apparatus belonging to UK Power Networks. The information provided relates to electric lines and/or electrical plant belonging to UK Power Networks that it believes to be present but the plans are not definitive: other electric lines and/or electrical plant may be present and that may or may not belong to UK Power Networks.
6. Other apparatus not belonging to UK Power Networks is not shown on the plan. It is your responsibility to make your own enquiries elsewhere to discover whether apparatus belonging to others is present. It would be prudent to assume that other apparatus is present.
7. You are responsible for ensuring that the information made available to you is passed to those acting on your behalf and that all such persons are made aware of the contents of this letter.
8. Because the information provided to you may not be accurate, you are recommended to ascertain the presence of UK Power Networks electric lines and/or electrical plant by the digging of trial holes. Trial holes should be dug by hand only.

Excavations must be carried out in line with the Health and Safety Executive guidance document HSG 47. We will not undertake this work. A copy of HSG 47 can be obtained from the Health and Safety Executives website.

All electric lines discovered must be considered LIVE and DANGEROUS at all times and must not be cut, resited, suspended, bent or interfered with unless specially authorised by UK Power Networks.

The electric line and electrical plant belonging to UK Power Networks remains so even when made dead and abandoned and any such electric line and/or electrical plant exposed shall be reported to UK Power Networks.

Where your works are likely to affect our electric lines and/or electrical plant an estimate of the price of any protective /diversionary works can be prepared by UK Power Networks Branch at Metropolitan House, Darkes Lane, Potters Bar, Herts. , EN6 1AG, telephone no. 0845 2340040



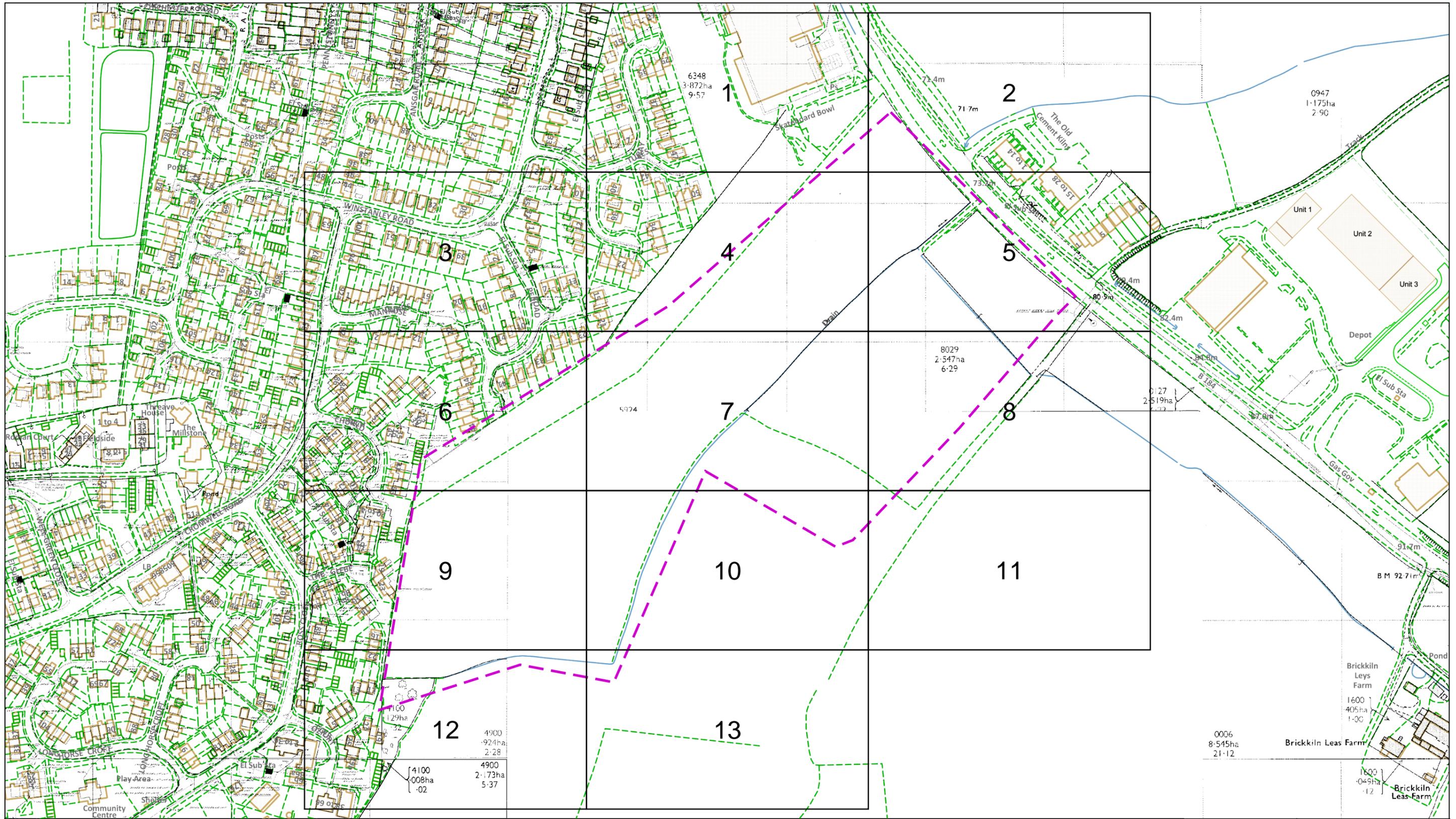
- 9 Any work near to any overhead electricity lines must be carried out by you in accordance with the Health and Safety Executive guidance document GS6 and the Electricity at Work Regulations.

The GS6 Recommendations may be purchased from HSE Books or downloaded from the Energy Networks Association's website.

If given a reasonable period of prior notice UK Power Networks will attend on site without charge to advise how and where "goal posts" should be erected. If you wish to use this service, in the first instance please telephone: 0845 6014516 between 08:30 and 17:00 Monday to Friday.

10. You are responsible for the security of the information provided to you. It must not be given, sold or made available upon payment of a fee to a third party.
11. If in carrying out work on land in, on, under or over which is installed an electric line and/or electrical plant that belongs to UK Power Networks you and/or anyone working on your behalf damages (however slightly) that apparatus you must inform immediately UK Power Networks by our emergency 24 hour three digit telephone number **105** providing;
- your name, address and telephone number;
  - the date, time and place at which such damage was caused;
  - a description of the electric line and/or electrical plant to which damage was caused;
  - the name of the person whom it appears to you is responsible for that damage;
  - the nature of the damage.
12. The expression "UK Power Networks" includes UK Power Networks (EPN) plc, UK Power Networks (LPN) plc, UK Power Networks (SEPN) plc, UK Power Networks and any of their successors and predecessors in title.





Dig Sites Area: Line:

The quality and accuracy of any print will depend on your printer, your computer and its print settings. Measurements scaled from this plan may not match measurements between the same points on the ground.

This plan must be used with the attached 'Symbols' document.  
 Date Requested: 18/03/2022  
 Job Reference: 25034021  
 Site Location: 554406 237035  
 Requested by:  
 Miss Tracey Mehew  
 Your Scheme/Reference: 22-0222 1  
 Scale: 1:2563 (When plotted at A3)

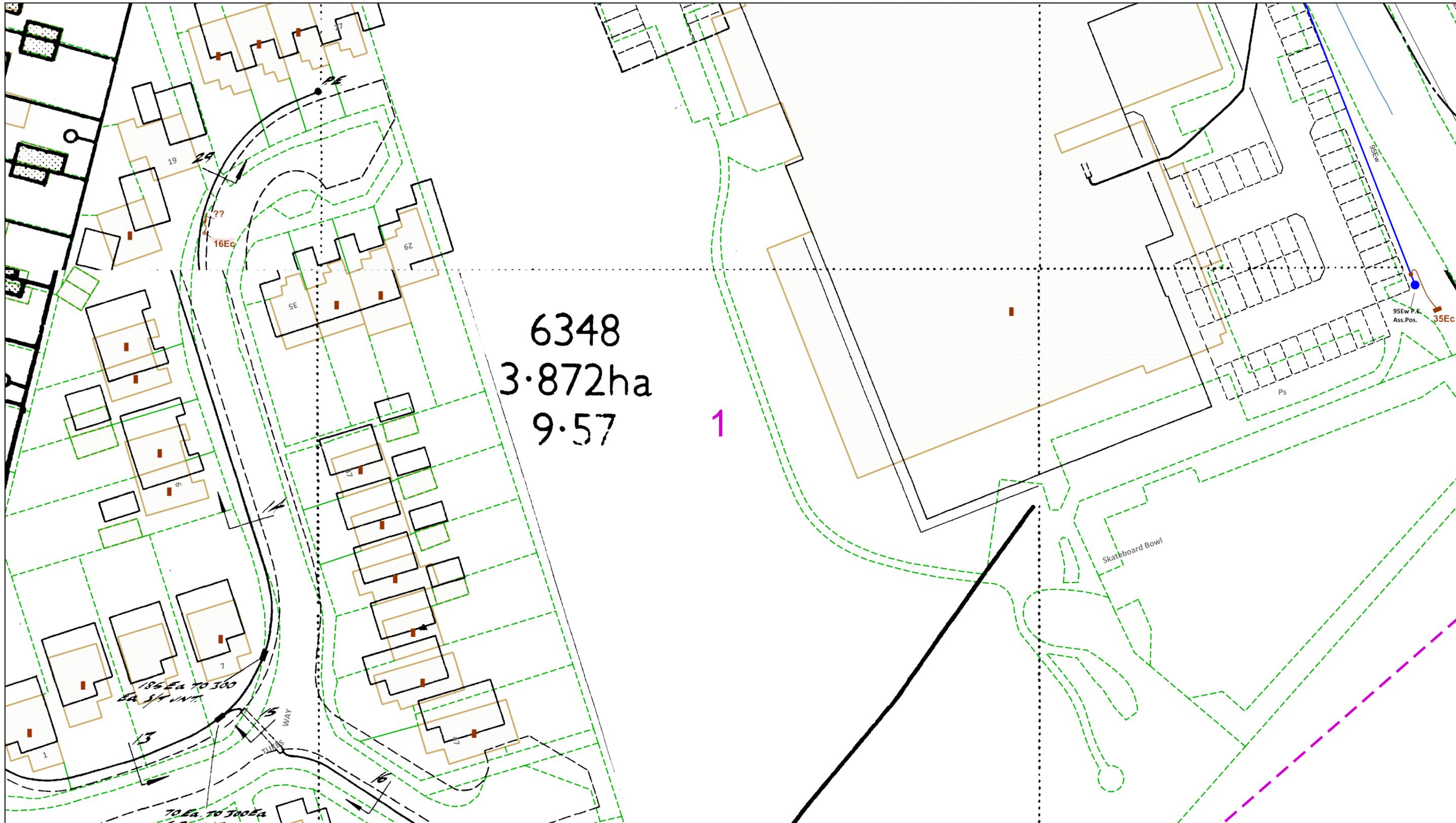
1. The position of the apparatus shown on this drawing is believed to be correct but the original landmarks may have been altered since the apparatus was installed.
2. The exact position of the apparatus should be verified - use approved cable avoidance tools prior to excavation using suitable hand tools.
3. It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks until the exact location of all the cables have been determined.
4. It must be assumed that there is a service cable into each property, lamp column and street sign, etc.
5. All cables must be treated as being live unless proved otherwise by UK Power Networks.
6. The information proved must be given to all people working near UK Power Networks plant and equipment. Do not use plans more than 3 months after the issue date for excavation purposes.
7. Please be aware that electric cables/lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.

1. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk.
2. UK Power Networks does not exclude or limit its liability if it causes the death of any persons or causes personal injury to a person.
3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise for any loss, damage, cost, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.
4. This plan has been provided to you on the basis of the terms of use set out in the covering letter that accompanies this plan. If you do not accept and/or do not understand the terms of use set out in the covering letter you must not use the plan and must return it to the sender of the letter.
5. You are responsible for the security of the information provided to you. It must not be given, sold or made available upon payment of a fee to a third party.

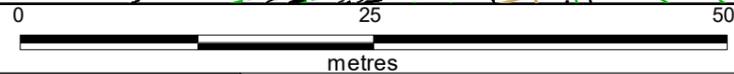
IF IN DOUBT - ASK!  
 PHONE [REDACTED]  
 EMERGENCY - If you  
 damage a cable or line  
 Phone [REDACTED]  
 (24hrs) URGENTLY

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

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



6348  
3.872ha  
9.57  
1



Dig Sites Area: Line:

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

Date Requested: 18/03/2022  
Job Reference: 25034021  
Site Location: 554406 237035  
Requested by:  
Miss Tracey Mehew  
Your Scheme/Reference: 22-0222 1

Scale: 1:500 (When plotted at A3)

1. The position of the apparatus shown on this drawing is believed to be correct but the original landmarks may have been altered since the apparatus was installed.
2. The exact position of the apparatus should be verified - use approved cable avoidance tools prior to excavation using suitable hand tools.
3. It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks until the exact location of all the cables have been determined.
4. It must be assumed that there is a service cable into each property, lamp column and street sign, etc.
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3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise for any loss, damage, cost, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.
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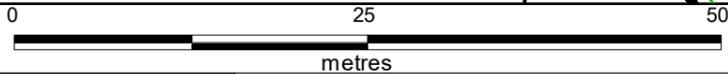
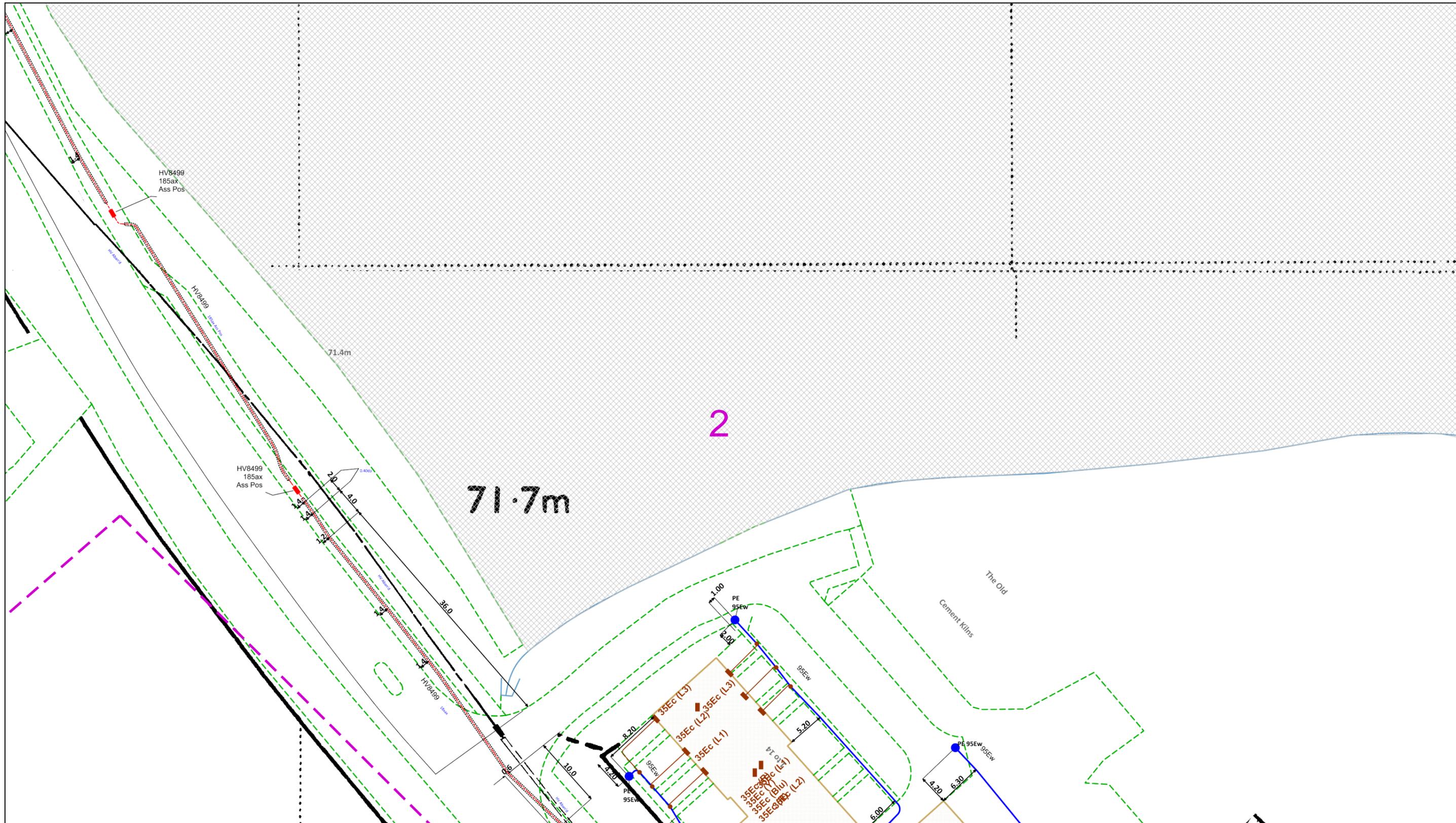


IF IN DOUBT - ASK!  
PHONE [REDACTED]  
EMERGENCY - If you damage a cable or line  
Phone [REDACTED]  
(24hrs) URGENTLY



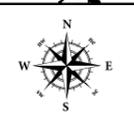
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Dig Sites Area: Line:

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Date Requested: 18/03/2022  
 Job Reference: 25034021  
 Site Location: 554406 237035  
 Requested by:  
 Miss Tracey Mehew  
 Your Scheme/Reference: 22-0222 1

Scale: 1:500 (When plotted at A3)

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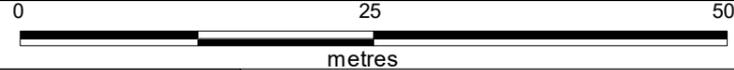
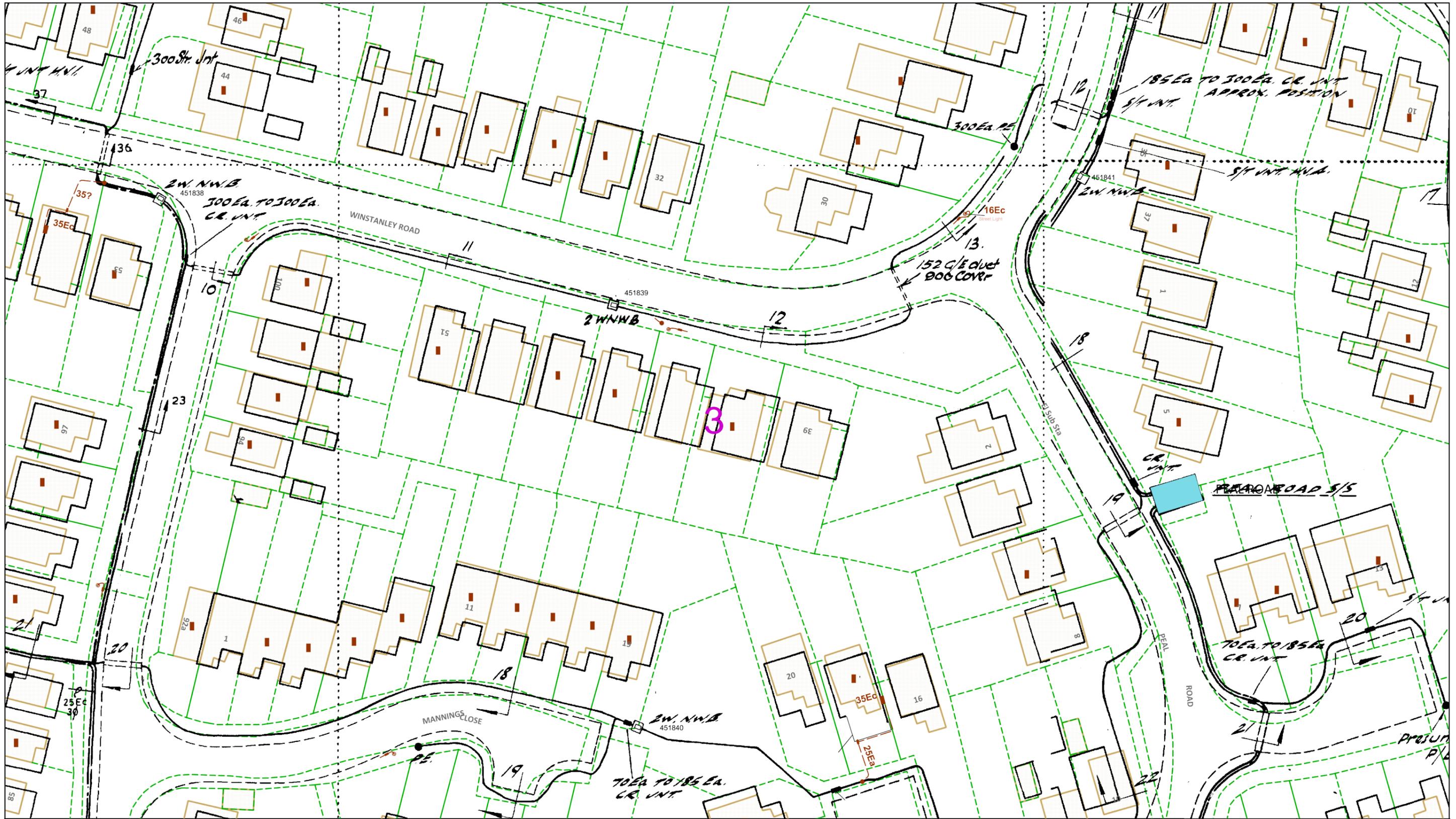
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IF IN DOUBT - ASK!  
 PHONE [REDACTED]  
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 (24hrs) URGENTLY



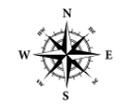
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Dig Sites Area: Line:

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Date Requested: 18/03/2022  
 Job Reference: 25034021  
 Site Location: 554406 237035  
 Requested by:  
 Miss Tracey Mehew  
 Your Scheme/Reference: 22-0222 1

Scale: 1:500 (When plotted at A3)

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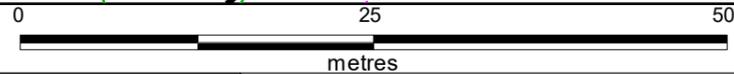
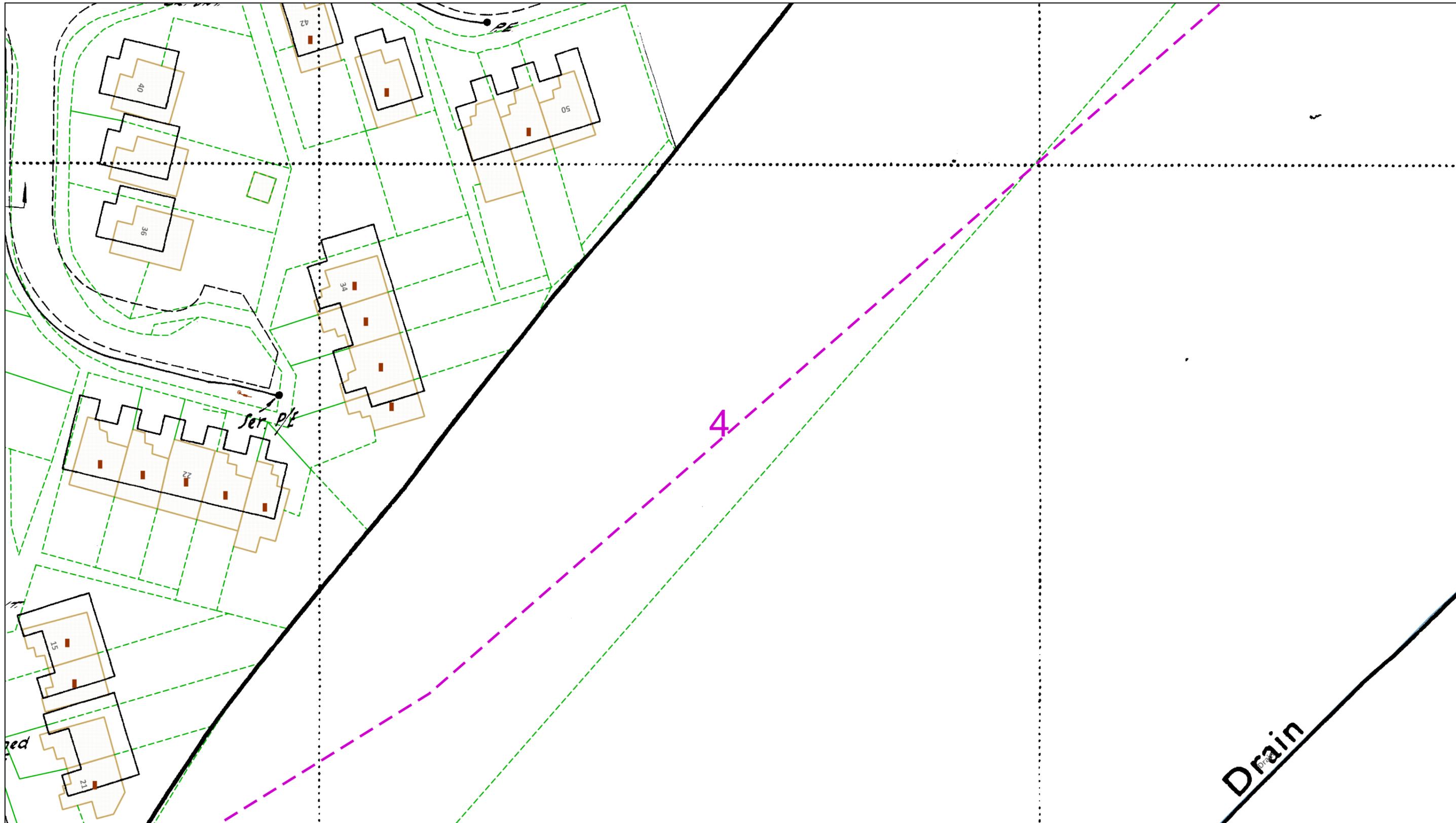
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 Job Reference: 25034021  
 Site Location: 554406 237035  
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 Miss Tracey Mehew  
 Your Scheme/Reference: 22-0222 1

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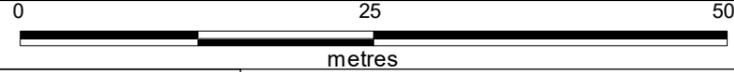
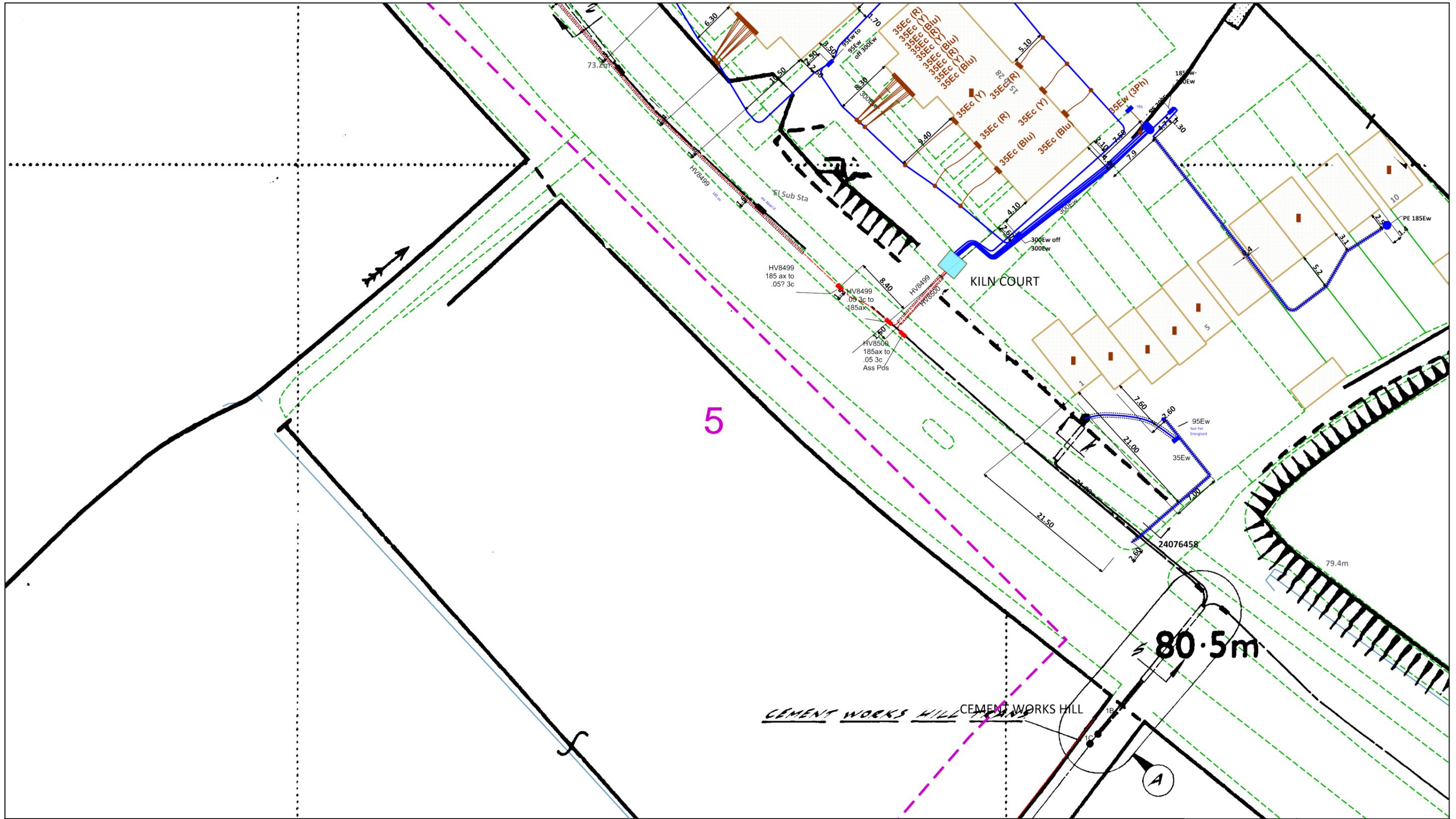


IF IN DOUBT - ASK!  
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 EMERGENCY - If you damage a cable or line  
 Phone [redacted]  
 (24hrs) URGENTLY



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 Requested by:  
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 Your Scheme/Reference: 22-0222 1

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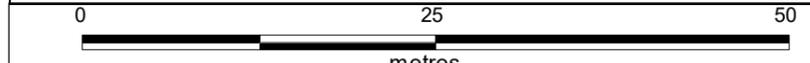
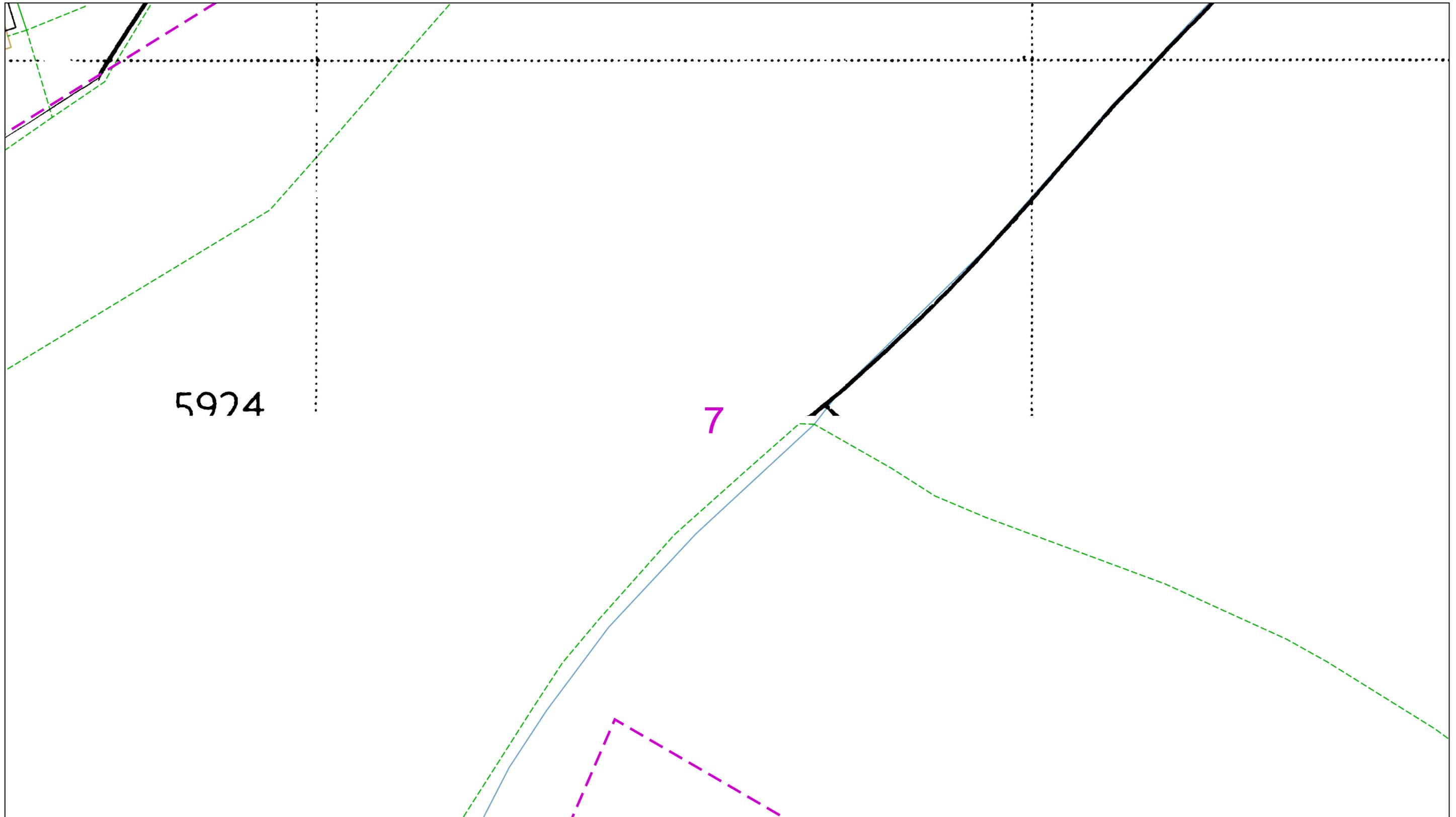
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 Site Location: 554406 237035  
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 Miss Tracey Mehew  
 Your Scheme/Reference: 22-0222 1

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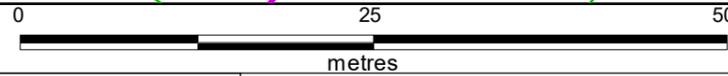
8029  
2.547ha  
6.29

410915(8)

410914(7)

8

2.



Dig Sites Area: Line:

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EMERGENCY - If you  
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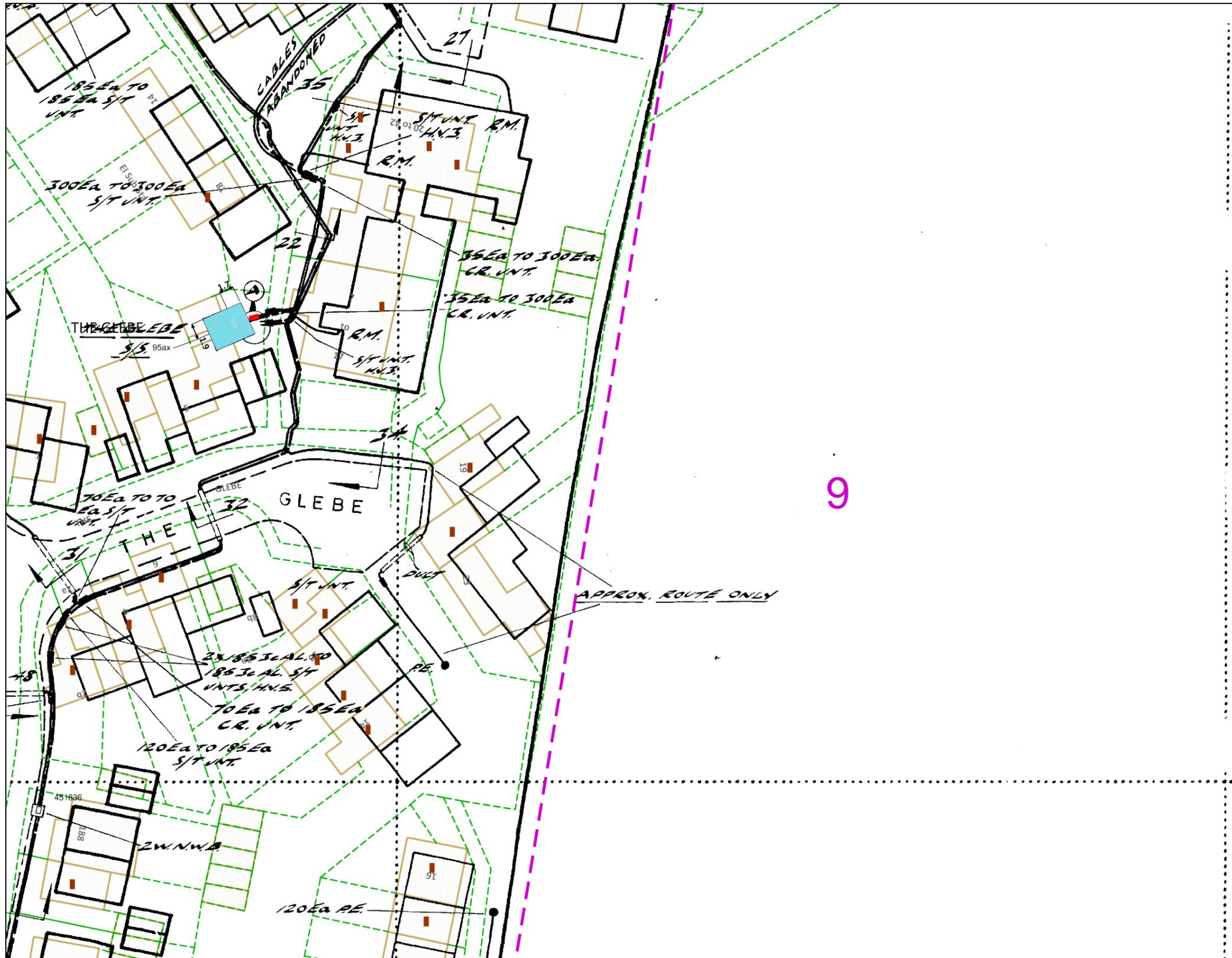
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Date Requested: 18/03/2022  
Job Reference: 25034021  
Site Location: 554406 237035  
Requested by:  
Miss Tracey Mehew  
Your Scheme/Reference: 22-0222 1  
Scale: 1:500 (When plotted at A3)



9

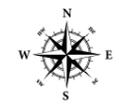
Dig Sites Area: Line:

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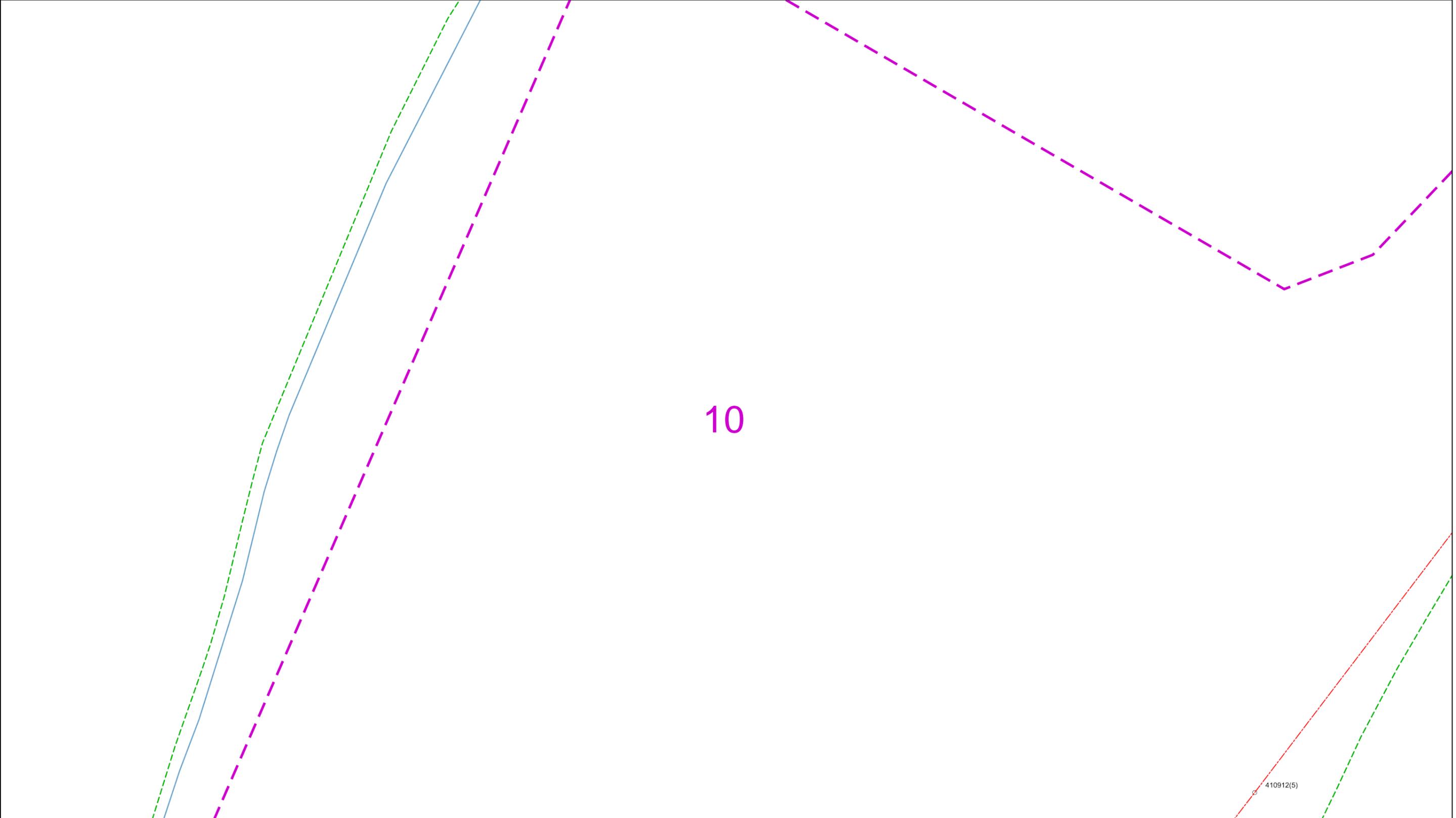


IF IN DOUBT - ASK!  
 PHONE 0800 056 5866  
 EMERGENCY - If you  
 damage a cable or line  
 Phone 0800 783 8838  
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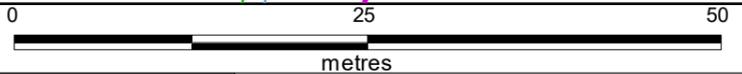
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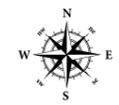
10

410912(5)



Dig Sites Area: Line:

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 Your Scheme/Reference: 22-0222 1

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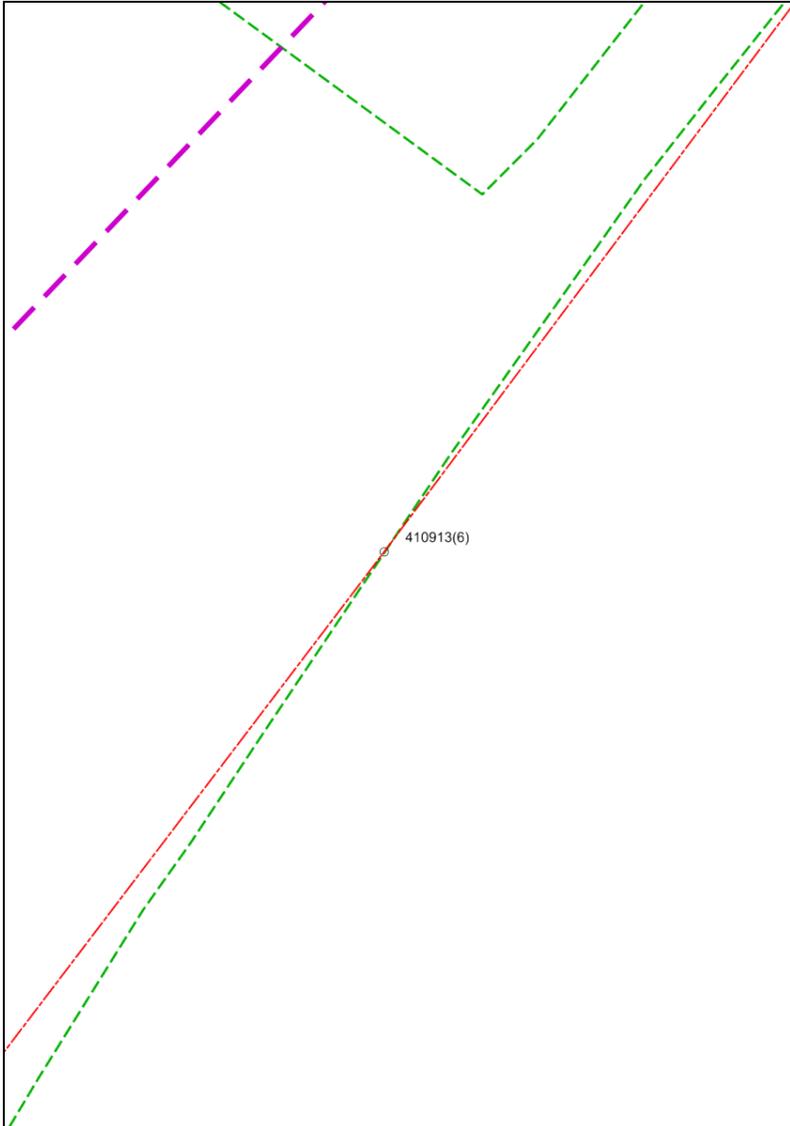
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 PHONE [REDACTED]  
 EMERGENCY - If you damage a cable or line (24hrs) URGENTLY

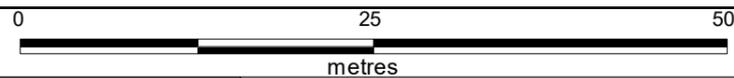


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11



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3. It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks until the exact location of all the cables have been determined.
4. It must be assumed that there is a service cable into each property, lamp column and street sign, etc.
5. All cables must be treated as being live unless proved otherwise by UK Power Networks.
6. The information proved must be given to all people working near UK Power Networks plant and equipment. Do not use plans more than 3 months after the issue date for excavation purposes.
7. Please be aware that electric cables/lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.

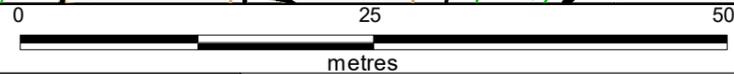
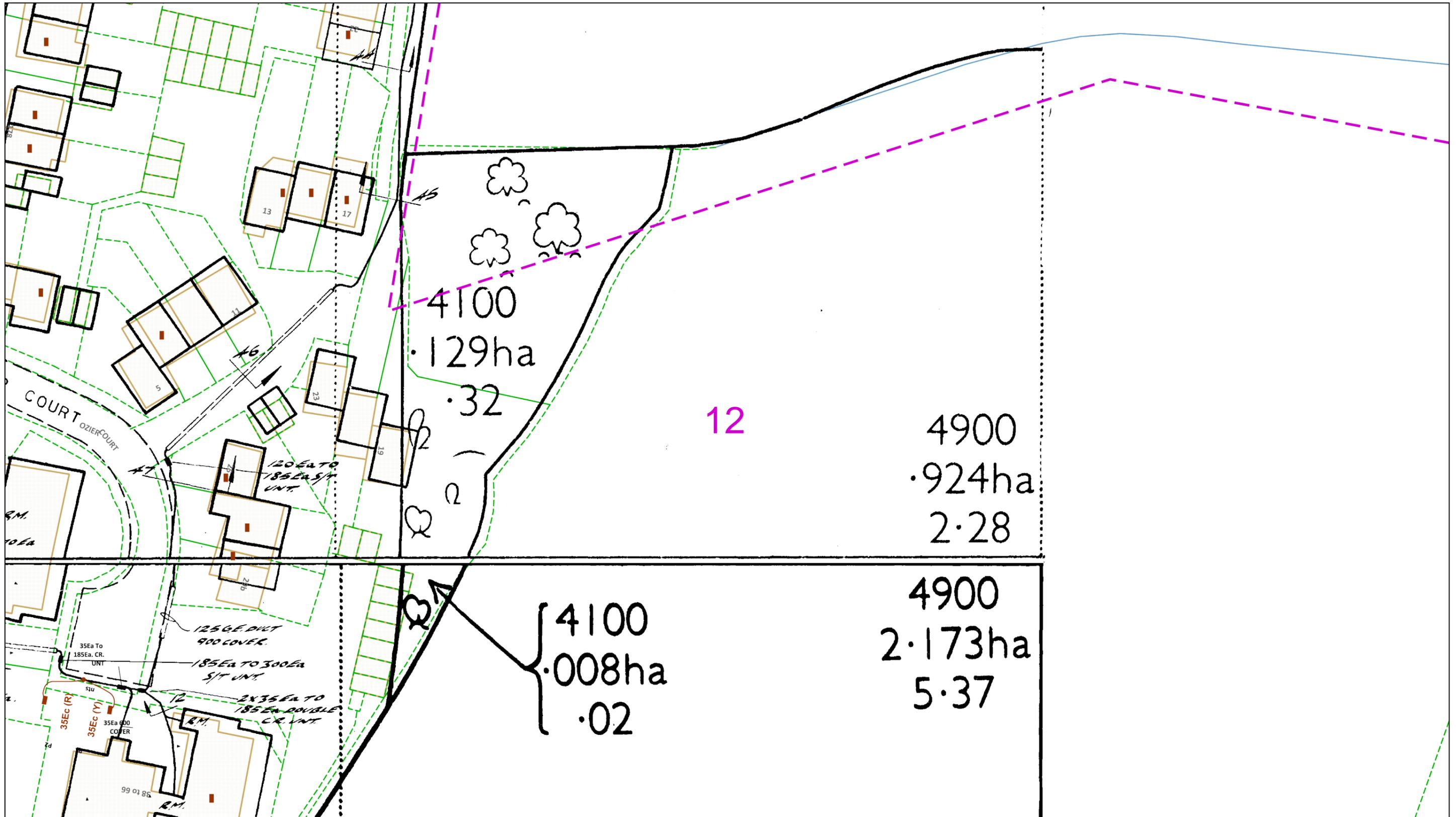
1. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk.
2. UK Power Networks does not exclude or limit its liability if it causes the death of any persons or causes personal injury to a person.
3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise for any loss, damage, cost, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.
4. This plan has been provided to you on the basis of the terms of use set out in the covering letter that accompanies this plan. If you do not accept and/or do not understand the terms of use set out in the covering letter you must not use the plan and must return it to the sender of the letter.
5. You are responsible for the security of the information provided to you. It must not be given, sold or made available upon payment of a fee to a third party.

IF IN DOUBT - ASK!  
 PHONE [REDACTED]  
 EMERGENCY - If you damage a cable or line (24hrs) URGENTLY



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

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



Dig Sites Area: 4100 Line:

The quality and accuracy of any print will depend on your printer, your computer and its print settings. Measurements scaled from this plan may not match measurements between the same points on the ground.



This plan must be used with the attached 'Symbols' document.  
 Date Requested: 18/03/2022  
 Job Reference: 25034021  
 Site Location: 554406 237035  
 Requested by: Miss Tracey Mehew  
 Your Scheme/Reference: 22-0222 1  
 Scale: 1:500 (When plotted at A3)

1. The position of the apparatus shown on this drawing is believed to be correct but the original landmarks may have been altered since the apparatus was installed.
2. The exact position of the apparatus should be verified - use approved cable avoidance tools prior to excavation using suitable hand tools.
3. It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks until the exact location of all the cables have been determined.
4. It must be assumed that there is a service cable into each property, lamp column and street sign, etc.
5. All cables must be treated as being live unless proved otherwise by UK Power Networks.
6. The information proved must be given to all people working near UK Power Networks plant and equipment. Do not use plans more than 3 months after the issue date for excavation purposes.
7. Please be aware that electric cables/lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.

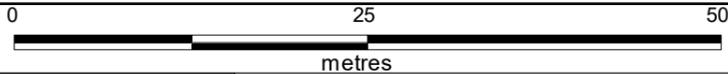
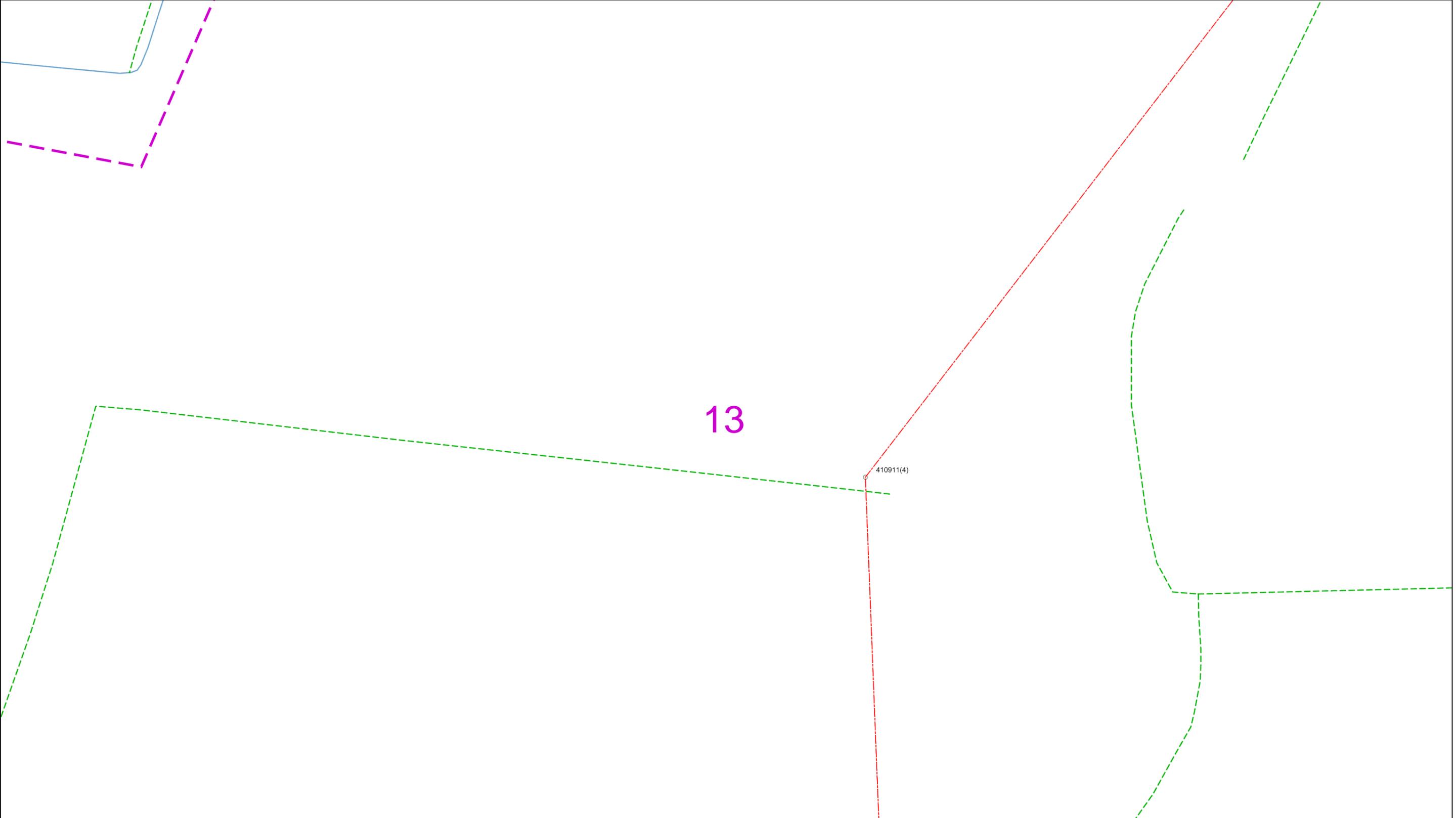
1. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk.
2. UK Power Networks does not exclude or limit its liability if it causes the death of any persons or causes personal injury to a person.
3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise for any loss, damage, cost, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.
4. This plan has been provided to you on the basis of the terms of use set out in the covering letter that accompanies this plan. If you do not accept and/or do not understand the terms of use set out in the covering letter you must not use the plan and must return it to the sender of the letter.
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IF IN DOUBT - ASK!  
 PHONE [REDACTED]  
 [REDACTED]  
 (24hrs) URGENTLY



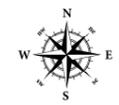
ALWAYS LOOK UP BEFORE YOU START WORK  
 Refer to HSE Guidance note GS6

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



Dig Sites Area: Line:

The quality and accuracy of any print will depend on your printer, your computer and its print settings. Measurements scaled from this plan may not match measurements between the same points on the ground.



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

Date Requested: 18/03/2022  
 Job Reference: 25034021  
 Site Location: 554406 237035  
 Requested by:  
 Miss Tracey Mehew  
 Your Scheme/Reference: 22-0222 1

Scale: 1:500 (When plotted at A3)

1. The position of the apparatus shown on this drawing is believed to be correct but the original landmarks may have been altered since the apparatus was installed.
2. The exact position of the apparatus should be verified - use approved cable avoidance tools prior to excavation using suitable hand tools.
3. It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks until the exact location of all the cables have been determined.
4. It must be assumed that there is a service cable into each property, lamp column and street sign, etc.
5. All cables must be treated as being live unless proved otherwise by UK Power Networks.
6. The information proved must be given to all people working near UK Power Networks plant and equipment. Do not use plans more than 3 months after the issue date for excavation purposes.
7. Please be aware that electric cables/lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.

1. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk.
2. UK Power Networks does not exclude or limit its liability if it causes the death of any persons or causes personal injury to a person.
3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise for any loss, damage, cost, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.
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5. You are responsible for the security of the information provided to you. It must not be given, sold or made available upon payment of a fee to a third party.

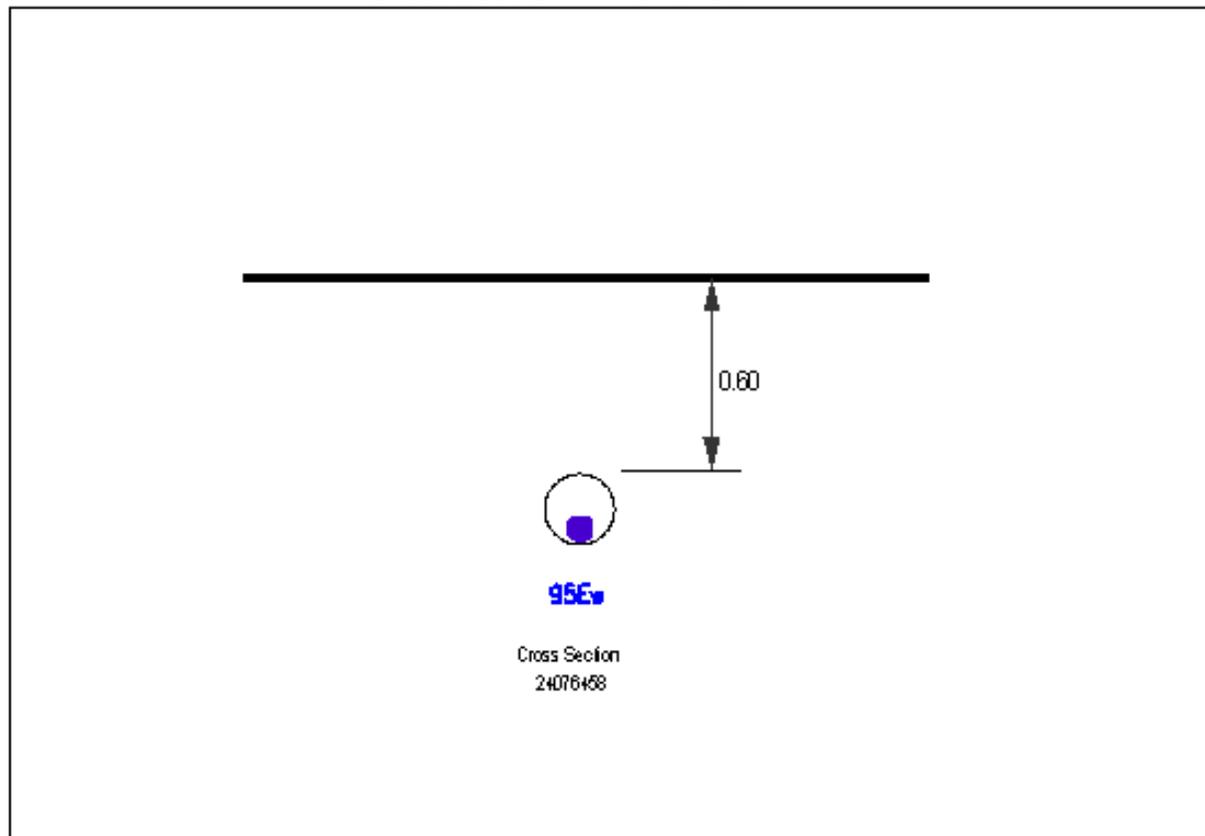
IF IN DOUBT - ASK!  
 PHONE [REDACTED]  
 EMERGENCY - If you damage a cable or line  
 Phone [REDACTED]  
 (24hrs) URGENTLY



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

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

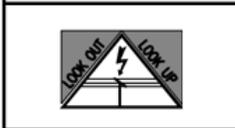
# Cross Section : 24076458



1. The position of the apparatus shown on this drawing is believed to be correct but the original landmarks may have been altered since the apparatus was installed.  
 2. The exact position of the apparatus should be verified - use approved cable avoidance tools prior to excavation using suitable hand tools.  
 3. If it is essential that trial holes are carefully made avoiding the use of mechanical tools or picks until the exact location of all the cables have been determined.  
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 2. UK Power Networks does not exclude or limit its liability if it causes the death of any persons or causes personal injury to a person.  
 3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise for any loss, damage, cost, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.  
 4. This plan has been provided to you on the basis of the terms of use set out in the covering letter that accompanies this plan. If you do not accept and/or do not understand the terms of use set out in the covering letter you must not use the plan and must return it to the sender of the letter.  
 5. You are responsible for the security of the information provided to you. It must not be given, sold or made available upon payment of a fee to a third party.

IF IN DOUBT - ASK! PHONE  
 EMERGENCY if you damage  
 a cable or line  
 Phone [REDACTED]  
 0800 010 000



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

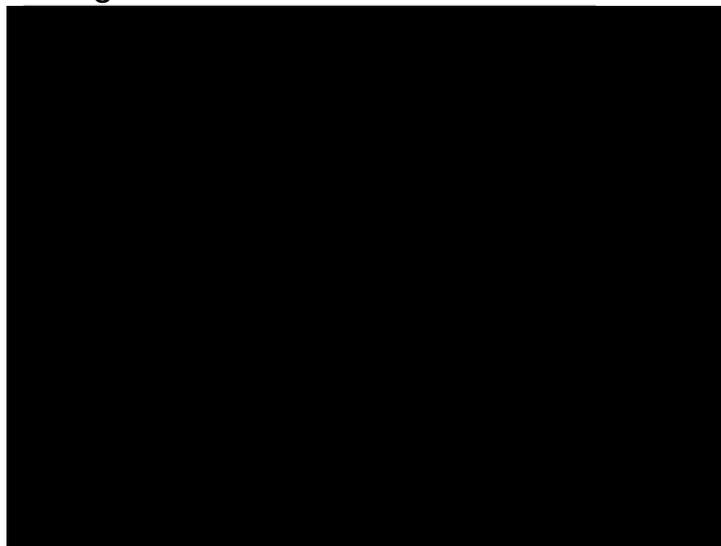
Maps produced at 1:2500 scale are Geo-Schematics which show LV mains cables and overhead lines (in some cases all voltages). Prior to carrying out excavations you must refer to the 1:500 records to determine the location of all known underground plant and equipment.

## UK Power Networks Feedback Tool

Please help UK Power Networks improve the accuracy of their network records and help make it safer for all those working around them in future.

All you need to do is:

1. Use your phone camera to scan the QR code:
2. Provide feedback on what you have found on site (good or bad)
3. Upload a photo if needed

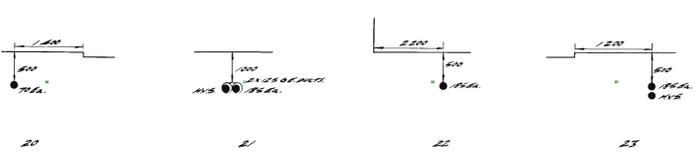


Thank you for making the area a safer place to dig.

**UK Power Networks, working with LSBUD**



# S1



eastern electricity 	
SCALE	
LOCATION	SAFFRON WALDEN
SHEET NO.	1243715A1
ISSUE	A
DATE	JUN 1975
SUPPLEMENTARY SHEET NO.	

REPRODUCED FROM OR BASED UPON THE  
ORDNANCE SURVEY MAP WITH THE SANCTION  
OF THE CONTROLLER OF HER MAJESTY'S  
STATIONERY OFFICE  
CROWN COPYRIGHT RESERVED

SERVICES  
FOR DETAILS OF SERVICE CABLE  
REFERENCE SHOULD BE MADE TO  
THE SERVICE CARDS IN THE  
DISTRICT OFFICE.

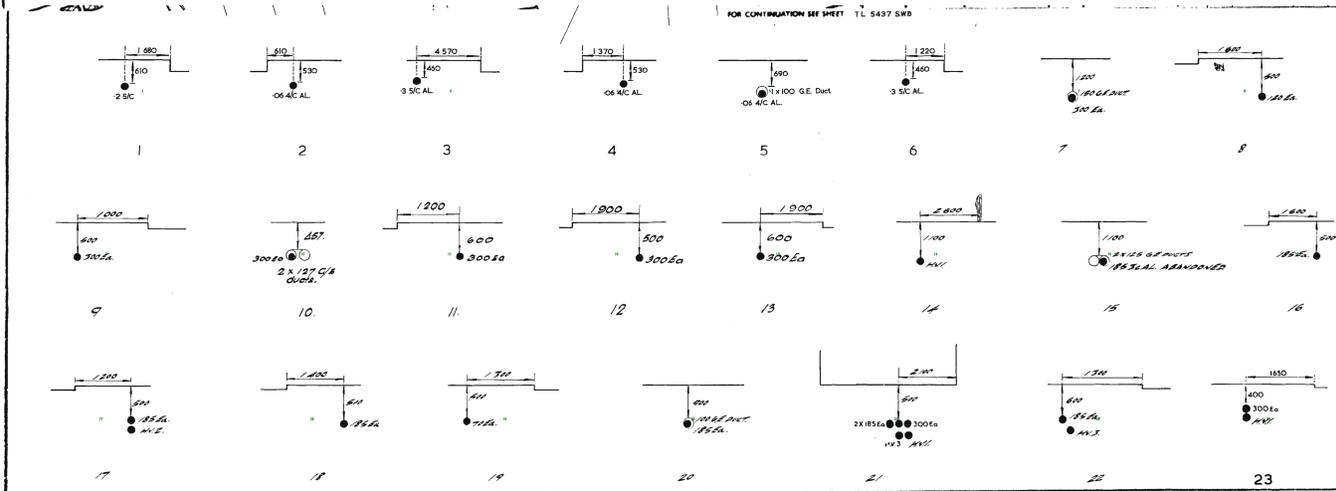
SO

TL5437SWA 1:500 LV

FOR CONTINUATION SEE SHEET TL 5437 NWB

FOR CONTINUATION SEE SHEET TL 5437 SEA

TL 5437 SWA  
FOR CONTINUATION SEE SHEET TL 5437 SEA



**PILOT CABLES AND HIGH VOLTAGE CABLES**

Serial numbers refer to this sheet only and lengths are to sheet edge

No	kV	Size	Cores	Designation	Length		No	kV	Size	Cores	Designation	Length	
					meters	yards						meters	yards
1	11	100 AL	3	RAILEY RD SS - PEALANDS RD SS									
2	11	100 AL	3	PAAL ROAD SS - THE OLENE SS									
3	11	100 AL	3	PEALANDS RD SS - CORNHILL RD SS									
5	11	100 AL	3	RAILEY RD SS - OLD HILL RD SS									
					Total length							Total length	

NOTES (1) FOR FULL DETAILS OF (3) HV CABLES REFERENCE SHOULD BE MADE TO THE PRIMARY RECORDS  
 (2) E DENOTES CNE CABLE ; DENOTES ALPEX TYPE  
 WIPED BY CABLES ARE NOT INDICATED IT IS ASSUMED THEY ARE THE SAME

**eastern electricity**

1 : 500 SCALE LV/G MAINS  
 LOCATION SAFFRON WALDEN

SHEET NO TL 5437 SWA	ISSUE November '73	DATE J.E.C.
-------------------------	-----------------------	----------------

REPRODUCED FROM OR BASED UPON THE ORDINANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M. STATIONERY OFFICE. CROWN COPYRIGHT RESERVED.

SERVICES FOR DETAILS OF SERVICE CABLE REFERENCE SHOULD BE MADE TO THE SERVICE CARDS IN THE DISTRICT OFFICE.

SUPPLEMENTARY SHEET NO. TL 5437 SWA



SO

TL5437SWB 1:500 LV

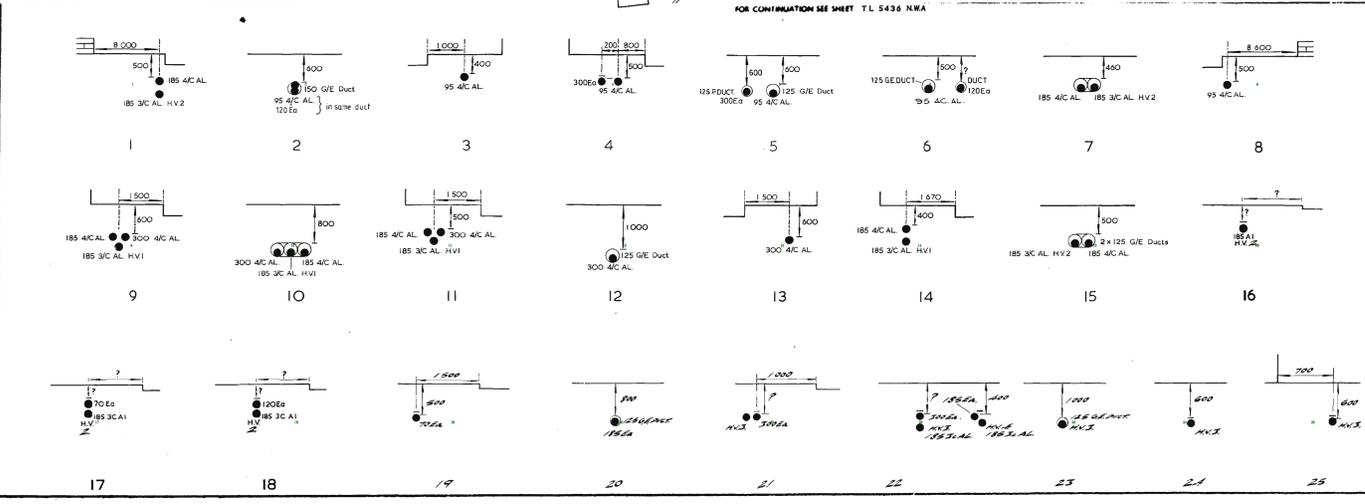
FOR CONTINUATION SEE SHEET TL 5437 SWA

2000A SET ASSUMED POSITION TRACK  
 1000V TO 1000V 1000V COMBINED INT  
 1000V TO 1000V 1000V

FOR CONTINUATION SEE SHEET TL 5437 SWB

TL 5437 SWB  
 FOR CONTINUATION SEE SHEET 37 SWB

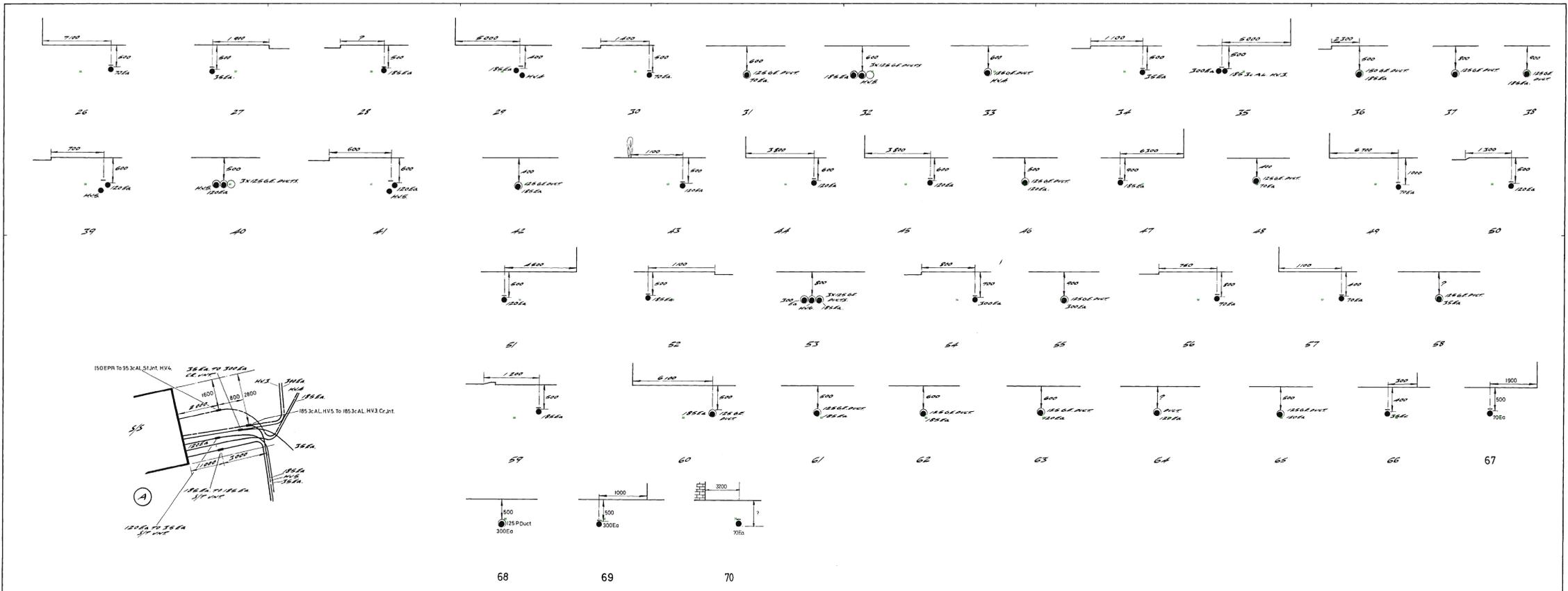
FOR CONTINUATION SEE SHEET TL 5436 NWA



PILOT CABLES AND HIGH VOLTAGE CABLES														
Serial numbers refer to this sheet only and lengths are to sheet edge														
No	kV	Size	Cores	Designation	Length		No	kV	Size	Cores	Designation	Length		
					metres	yds						metres	yds	
HV1	11	185 AL	3/C	Crownell Road S/S - Roestree Way S/S										
HV2	11	185 AL	3/C	Crownell Road S/S - <del>Roestree Way S/S</del>										
HV3	11	185 AL	3	THE GLEBE S/S - <del>ROAD AT S/S</del>										
HV4	11	185 AL	3	THE GLEBE S/S - CR. JNT. ON HV2										
HV5	11	185 AL	3	S/S - CR. JNT. ON HV2										
HV6	11	185 AL	3	ROSS CLOSE S/S - CR. JNT. ON HV3 OUTSIDE										
HV7	11	185 AL	3	THE GLEBE S/S										
HV8	11	185 AL	3	ROSS CLOSE S/S - PLANTATION										
				CHURCH S/S										
					Total length				Total length					

NOTES (1) FOR FULL DETAILS OF 33 kV CABLES REFERENCE SHOULD BE MADE TO THE PRIMARY RECORDS  
 (2) E DENOTES CNE CABLE & DENOTES ALPEX TYPE  
 Where HV Cables are not ducted it is assumed they are tile covered

1:500 SCALE U/G MAINS	
LOCATION SAFFRON WALDEN	
	DIMENSIONS IN MILLIMETRES REPRODUCED FROM OR BASED UPON THE ORDINANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF MAPS. STATIONARY OFFICE CROWN COPYRIGHT RESERVED
SERVICES FOR DETAILS OF SERVICE CABLE REFERENCE SHOULD BE MADE TO THE SERVICE CARDS IN THE DISTRICT OFFICE	SHEET NO. TL 5437 SWB SUPPLEMENTARY SHEET NO. 25 26 27 SWB
ISSUE July 1973 J.E.C.	DATE



SCALE	
LOCATION	SAFFRON WALDEN
SHEET NO.	T2 EAST SW81
ISSUE	A
DATE	OCT 1977
SUPPLEMENTARY SHEET NO.	20

REPRODUCED FROM OR BASED UPON THE ORDINANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF HM STATIONERY OFFICE. CROWN COPYRIGHT RESERVED.

SERVICES FOR DETAILS OF SERVICE CABLE REFERENCE SHOULD BE MADE TO THE SERVICE CARDS IN THE DISTRICT OFFICE.



# Network Records NetMAP Symbols Booklet - East of England

This symbol booklet is intended as a general guide only - some local variations of these symbols may be found.

**Version 1.2**

Released October 2010

Always check with your local Network Records office or the UK Power Networks server to ensure that you are using the most up to date copy of this booklet - Tel: [REDACTED]

## Index:-

Page no:	Contents:
1	Guidance notes.
2	The area covered by this guide.
3	<u>1:500 view</u>
4	Scenery.
7	Scenery (UK Power Networks use only).
8	Primary distribution cables (EHV).
9	Secondary distribution cables (HV/LV).
10	Service cables/terminations.
11	Cable ducts.
13	EHV/HV/LV sites.
14	Mains joints.
15	Service joints.
17	Cross sections.
17	Common abbreviations/terminology (all views).
19	<u>1:2500 (LV) &amp; 1:10000 (HV) network views (UK Power Networks use only).</u>
20	General.
22	1:2500 scale LV network.
22	1:10000 scale HV network.
23	<u>LV network diagram view (UK Power Networks use only).</u>
24	Overhead lines.
25	Underground cables.
25	Joints.
26	Substations/pole transformers.

## Guidance notes.

### **Important notice:**

If you do not understand the NetMAP record that you are using, please contact the UK Power Networks Network Records team for guidance

Tel: [REDACTED]

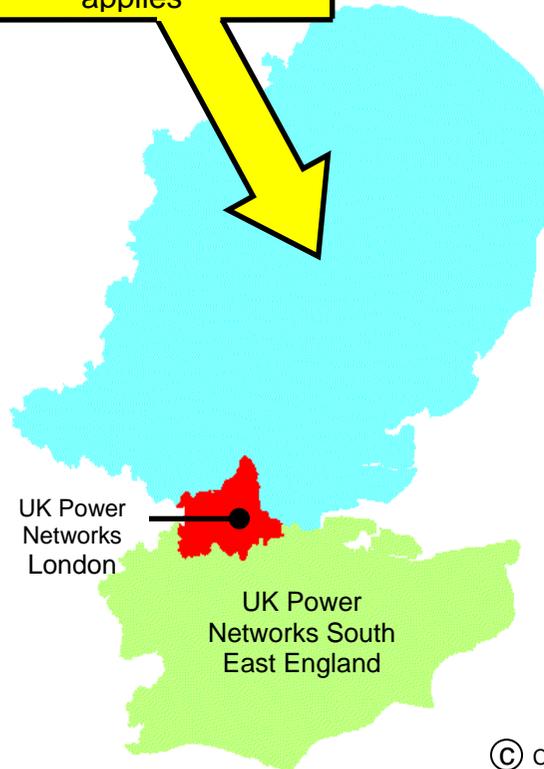
- The position of apparatus shown on NetMAP is believed to be correct, but the original landmarks may have altered since the apparatus was installed.
- It must be assumed that there is at least one service to each property, lamp column, street sign etc.
- All cables must be treated as live, unless proven otherwise by an authorised UK Power Networks representative.
- Third party cables are not usually shown. In cases of doubt, please telephone 08000 565866.
- When two or more maps are supplied for the same area, the maps must be read in conjunction with each other and with this symbol document.
- All LV cables are assumed to be 4 core, and all HV cables assumed to be 3 core unless otherwise stated.



**Plan Provision Team**  
**Fore Hamlet**  
**Ipswich**  
**Suffolk IP3 8AA**  
**Tel:** [REDACTED]

## The area covered by this guide:

**UK Power Networks  
East of England.**  
This is the only area  
where this document  
applies



© Crown Copyright

# 1:500 view - underground network

## Scenery

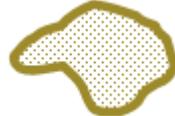
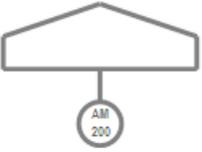
NetMAP system	Scanned image	Description
		100 metre Ordnance Survey grid line (on O/S based maps only.)
		Property fence line
		Building line
		Kerb line
		Electrical Boundary

# Scenery - for UK Power Networks use only - boxed in red

NetMAP system	Scanned image	Description
 Inset Network – Contact xxxx IDNO for further information	Not applicable	Area of inset network - not the asset of UK Power Networks (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Proposed Cross Rail route (only visible to UK Power Networks and their immediate contractors)
	Not applicable	High pressure pipelines in the general vicinity (only visible to UK Power Networks and their immediate contractors)
Note: Pipelines are only viewable on NetMAP by UK Power Networks staff and their immediate contractors. Do not carry out any excavation without consent from the relevant agency - legally protected high pressure petroleum products pipeline route in the general vicinity - consult <a href="http://www.linewatch.co.uk">www.linewatch.co.uk</a> for contacts and guidance. Pipeline contact numbers can also be found on the intranet – out of hours, contact our Control Centre.		
	Not applicable	Water - surface water (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Water - Source Protection Zone 1 (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Water - Source Protection Zone 2 (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Water - Source Protection Zone 3 (only visible to UK Power Networks and their immediate contractors)

section continued on next page

**Scenery for UK Power Networks use only - boxed in red**

NetMAP system	Scanned image	Description
	Not applicable	Historical - Scheduled Monuments (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Historical - Parks and Gardens (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Historical - Areas of Archaeological Potential (AAP) (only visible to E UK Power Networks and their Immediate contractors)
	Not applicable	Nature - Ramsar Wetlands of International Importance (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Nature - Special Area of Conservation (SAC) (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Nature - Special Protected Area (SPA) (only visible to UK Power Networks and their immediate contractors)
		Nature - Site of Special and Scientific Interest (SSSI) (only visible to UK Power Networks and their immediate contractors)

**section continued on next page**

**Scenery for UK Power Networks use only - boxed in red**

NetMAP system	Scanned image	Description
	Not applicable	Nature - Local Nature Reserve (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Nature - National Nature Reserve (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Nature - Area of Outstanding Natural Beauty (AONB) (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Nature - National Park (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Fluid filled cables - very high sensitivity (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Fluid filled cables - high sensitivity (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Fluid filled cables - medium sensitivity (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Fluid filled cables - low sensitivity (only visible to UK Power Networks and their immediate contractors)

### Primary distribution cables (1:500 view)

NetMAP system	Scanned image	Description
		Over 33kV and up to 132kV
		Over 11kV and up to 33kV

### Secondary distribution cables (1:500 view)

NetMAP system	Scanned image	Description
		Over 230/400V and up to 11kV (HV) cable route
		230/400V (LV) cable route
		Pilot cable route
<small>(Only shown this way if independent from HV cable route)</small> Abandoned cables are shown and labelled as such when applicable		

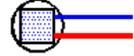
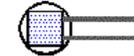
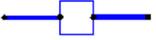
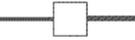
### Service cables and terminations (1:500 view)

NetMAP system	Scanned image	Description
		<p>3 phase service with termination</p> <p>3 phase service with termination (unknown route)</p> <p>3 phase service with multi-head termination</p> <p>Single phase service with termination</p> <p>Single phase service with termination (route unknown)</p> <p>Street lighting cable and termination</p>
<p>Service routes were not always shown on MMS – they were however shown dashed, as indicated above</p>		

### Cable ducts (1:500 view)

NetMAP system	Scanned image	Description
		<p>Empty duct</p> <p>Cable(s) in duct(s)</p> <p>Cable(s) in duct(s) (on some raster maps)</p> <p>Multiple cables in ducts</p> <p>Multiple cables in ducts (on some raster maps)</p>

### EHV, HV and LV sites (1:500 view)

NetMAP system	Scanned image	Description
COLCHESTER GRID 	COLCHESTER GRID 	Primary substation
HIGH STREET 	 HIGH STREET  HIGH STREET	Secondary substation
		Pad mounted substation
		Link box - 2 way
		Link box - 4 way (6 way etc shown similarly)
		Feeder pillar - 4 way (6 way etc shown similarly)
CHURCH RD 	CHURCH RD 	Pole transformer
		Poles on underground records
		
		H pole, any voltage
		Service turret (solid type)

section continued on next page

### EHV, HV and LV sites continued (1:500 view)

NetMAP system	Scanned image	Description
No NetMAP equivalent  CAUTION Missing Information		Service turret (with link facility on LV main)
 Contaminated Land refer to SHE 01 016	No equivalent	Missing data in or near this location
	Not applicable	Contaminated land reference

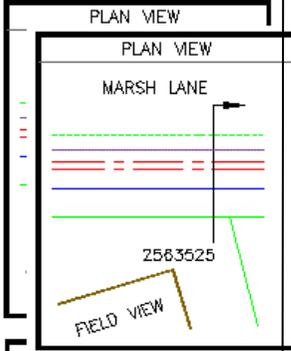
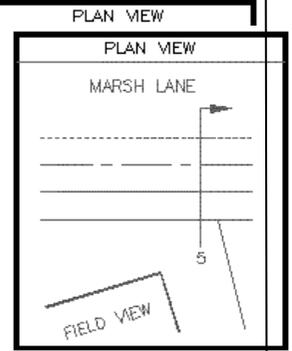
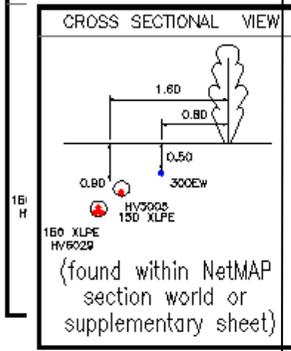
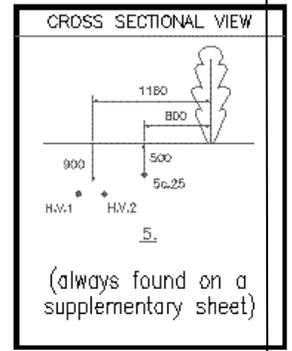
### Mains joints (1:500 view)

NetMAP system	Scanned image	Description
(voltage indicated by colour/line-style)		
		Straight joint
		Crutch joint
		Straight crutch joint
		Pot end
		Pot end – an one of several cables – single line representation
		Branch joint/pot end – (humpty back joint, back to back joint, bull nose joint or stub joint)
		Sleeve repair or repair joint
		Cut end
		Capped end
		Tee joint
	NetMAP/vector only	Sicame joint box

### Service joints (1:500 view)

NetMAP system	Scanned image	Description
Please note that 3 phase services are shown blue, and single phase services are shown brown		
		Straight joint
		Service joint to main
		Pot end

## Cross sections (1:500 view)

NetMAP system	Scanned image	Description	
		<p>Single line representational plan view with NetMAP equivalent (please note the use of separate line for each voltage on the raster/MMS data)</p>	
 <p>(found within NetMAP section world or supplementary sheet)</p>	 <p>(always found on a supplementary sheet)</p>		<p>Cross sectional view of above</p>
		<p>Section arrow with old/new numbering system – points in direction section is viewed</p>	
<ul style="list-style-type: none"> <li><span style="color: blue;">●</span> 185Ew</li> <li><span style="color: red;">●</span> 35Ec</li> <li><span style="color: red;">●</span> HV3005</li> </ul>	<ul style="list-style-type: none"> <li><span style="color: grey;">●</span> 185Ew</li> <li><span style="color: grey;">●</span> 35Ec</li> <li><span style="color: grey;">●</span> HV3005</li> </ul>		<p>LV/3 phase service cable</p> <p>Single phase service cable with size annotation</p> <p>HV cable – 3 core with route number annotation</p>
<p><b>section continued on next page</b></p>			

## Cross sections continued (1:500 view)

NetMAP system	Scanned image	Description
 HV3005	 HV3005	HV cable – modern EPR, Plam and Triplex with route number annotation
		Pilot cable
 HV1023	 HV3005	33kV cable
 HV3005	 HV3005	132kV cable
		Single duct
		6 way duct formation – irrespective of duct type and material, all are displayed similarly
		Protective slab
		Tiles
		Concrete slabs
		33kV fibre warning board
		Steel plate
		Plastic tile tape
 Timber		Timber

## Common abbreviations and terminology (all views)

Abbrev.	Description	Abbrev.	Description
1c	Single core	Cut out or C/O	Meter/main fuse position
1ph	Single phase	cx	Triplex (copper)
2c	Two core	DE	Direct earth
3c	Three core	DSTA	Double steel tape armoured
3ph	Three phase	Ea	Alpex cable
ABC	Aerial bunched (bundled) conductor (modern LV overhead line)	EFI	Earth fault passage indicator
ABI	Air break isolator (no fuses)	EHV	Extra high voltage (11,001 Volts and over)
ABSD	Air break switch disconnecter	ELCB	Earth leakage circuit breaker
ACCS	Aluminium concentric copper sheathed	ELT	Earth leakage trip
Al	Aluminium	EPR	Ethylene propylene rubber
AR	Auto recloser	Ew	Waveform cable
ASL	Automatic sectionalising links	E/W	Earthenware duct or earth wire
ax	Triplex (aluminium) 2 x 22mm AL PVC (example) Duplex 3 x 22mm AL PVC (example) Triplex	Fdr or Feeder	LV or HV cable fed by or feeding a substation
CB	Circuit breaker	F/G	Fuse gear
c/c	Concentric cores	F/P	Feeder pillar
ccc	Compact covered conductor	GRP	Fibreglass substation
CCT	Circuit	GVR	Gas vacuum recloser or pole mounted circuit breaker
CNE	Combined neutral and earth	HV	High voltage (1,001-11,000 Volts incl)
Cross phased	The core colour may be different to originating transformer phasing	HYBRID	Modern plastic cable with mixed conductor material (Al/Cu)
CS	Consac	Insulation	Electrically protective material surrounding a conductor
CSE	Cable sheath earth	Insulator	Porcelain or glass overhead line support (on poles)
Cu	Copper	<b>ITC</b>	Instrument traced cable or ITC - cable traced electronically using Cable Avoidance Tool (CAT) or similar

section continued on next page

## Common abbreviations and terminology continued (all views)

Abbrev.	Description	Abbrev.	Description
Jumper	Connecting lead between open points, section points and overhead plant	PICAS	Paper insulated corrugated aluminium sheath armoured
kV	Kilovolt (or 1,000 Volts) – unit of electrical pressure	PILC	Paper insulated lead covered
kW	Kilowatt (1,000 Watts) – unit of electrical power	PILSTA	Paper insulated lead covered steel tape armoured cable
kVA	Kilovolt Amps or power	PL	Plain lead or public lighting
Link box or LB	Means of connecting LV feeders together using links or fuses	PME	Protected multiple earth or CNE
LSF	Low smoke & fume	PMT	Pole mounted transformer
LV	Low voltage (up to 1,000 Volts incl)	PMR	Pole mounted recloser (generic term for OYT/GVR)
LV Pillar	Low voltage fuse distribution board	PT	Pole transformer
Neutral	Return path of live cable	PVC	Polyvinyl chloride
O/H or OHL	Overhead line	RMU	Ring main unit
OYS	Oil filled pole mounted sectionaliser	RN	Reduced neutral
OYT	Oil filled pole mounted recloser	s/c	Split concentric or single core
PC400	Pole mounted LV fuse unit	S/L	Street light
PE	Pot end or potential end – joint on cable end	S/S	Substation
Phase	Usually the core colour of a cable (caution – may be cross phased) – Red, Yellow, Blue on old cables, or L1, L2, L3 on new cables, for example	STA	Steel tape armoured
		SWA	Steel wire armoured
		T1 or T2 etc	Substation TX setup where more than one TX exists
		T/F or TX	Transformer
		Volts	Unit of electrical pressure
		Watts	Unit of electrical power
		XLPE	Cross linked polyethylene

# 1:2500 & 1:10000 view - overhead networks - for UK Power Networks use only - boxed in red

## General

NetMAP system	Scanned image	Description
		H pole
		Pole

## 1:2500 scale LV network

NetMAP system	Scanned image	Description
No NetMAP equivalent		132kV cable route
No NetMAP equivalent		33/22kV cable route
No NetMAP equivalent		11kV underground cable
		132kV overhead line
		33kV overhead line dots mark pole position
		11kV overhead line – dots mark pole position
		Dual construction – dots mark pole position
		LV overhead line – dots mark pole position
No NetMAP equivalent		LV underground cable
		Pole and stay
		Pole and strut
		Voltage regulator
		Static balancer
		Example of struts and stays
		Flying stay
		Earthed pole in PME system
261	261	Pole number
		Ground type substation
S.P.	S.P.	Section pole
S.L.	S.L.	Street light

section continued on next page

### 1:2500 scale LV network continued

NetMAP system	Scanned image	Description
O.R. Stay	O.R. Stay	Outrigger stay
Ext. Brkt	Ext. Brkt	Extension bracket
P. Box	P. Box	Pole box
N.E.	N.E.	Neutral and earth
O.R. Brkt	O.R. Brkt	Outrigger bracket

### 1:10000 scale HV network

NetMAP system	Scanned image	Description
		132kV overhead line
		33kV overhead line dots mark pole position
		11kV overhead line – dots mark pole position
		11kV overhead line – dual circuit – dots mark pole position
		11kV underground cable and EHV
		Pylon HV or EHV
		Grid line tower
		Stay
		Ground type substation
		Pole type transformer
		Live line taps
		Switchgear – all types
		Fuse gear
		Auto recloser – live line connected

The above circular substation/switchgear symbols may be found that contain different combinations of apparatus (see last example)

## LV network diagram view-for UK Power Networks use only-boxed in red

### Overhead lines

NetMAP system	Description
- - - - -	Unknown
- - - - -	Al
- - - - -	Cu
- - - - -	ABC
—	Pole link

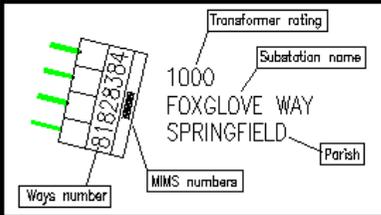
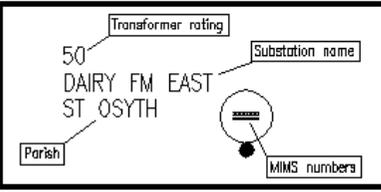
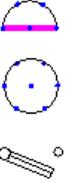
### Underground cables (LV network diagram view)

NetMAP system	Description
—	Unknown
—	Al
—	Cu
—	CC
—	TCC
—	Ea
—	Ec
—	Ecx
—	Ew
—	LSF
—	Other

## Joints (LV network diagram view)

NetMAP system	Description
	Pot end or Sicame Box
	Straight joint
	Crutch joint
	3 phase termination

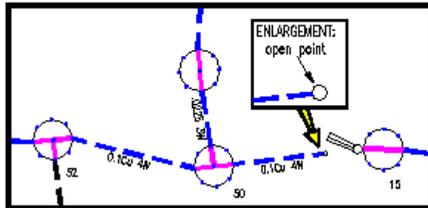
## Substations/pole transformers (LV network diagram view)

NetMAP system	Description
<p>There are many substation combinations – these are merely a sample of configurations that can be found.</p> 	<p>2 way substation</p> <p>4 way substation</p> <p>4 way twin busbar substation</p> <p>10 way back to back substation</p> <p>Pole transformer (normal)</p> <p>Pole transformer 2 way</p> <p>Pole transformer 3 way</p>
	<p>Substation with rating, name, Parish and MIMS identifying number</p>
	<p>Pole transformer with rating, name, Parish and MIMS identifying number</p>
	<p>Intermediate pole</p> <p>Section pole</p> <p>Overhead fuse</p>
<b>section continued on next page</b>	

# Substations/pole transformers cont'd (LV network diagram view)

NetMAP system

Description



Overview – the purple lines through the section poles are pole links – these indicate how the network is linked together



2 way link box



3 way link box



4 way link box



4 way double busbar link box



4 way BICC link box



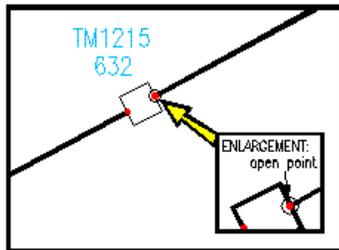
5 way link box



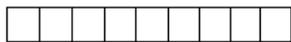
6 way link box



6 way double busbar link box



A two way link box with identification number, connected to a cable with an open point



Feeder pillars – these range from 2 ways through to 9 ways – a 9 way and a 2 way are shown as examples





Be Bright

Stay Safe

**Stop!**  
Think before  
you dig!



**Your life can be lost within seconds if you come into contact with electricity.**

**Every year, people are killed or seriously injured when they come into contact with high voltage electricity.**

This can have a far-reaching and devastating effect on family, friends and colleagues.

Distractions, working long hours, rushing to get the job done, can all impact on how we work and our safety.

Taking time to plan, being prepared and focusing on the way we work can help keep us safe.

WOODEN POLES CAN CARRY TELEPHONE AND ELECTRICITY WIRES. **NEVER ASSUME** THE WIRE IS A TELEPHONE WIRE



LINES CAN BE **RE-ENERGISED** AT ANY TIME



**400,000 VOLTS**

ELECTRICITY SYSTEMS CARRY VOLTAGE UP TO 400,000 VOLTS. **EVEN 230 VOLTS (DOMESTIC VOLTAGE) CAN BE LETHAL**



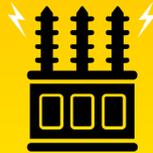
**RUBBER BOOTS WILL NOT PROTECT YOU!**

**Be Bright**

**Stay Safe**



**OUR NETWORK** DISTRIBUTES ELECTRICITY THROUGH UNDERGROUND CABLES, PYLONS, OVERHEAD POWER LINES, SUBSTATIONS AND OTHER EQUIPMENT



National power cut helpline

**POWER CUT?  
CALL 105**

OR CALL US 24 HOURS A DAY ON  
**0800 31 63 105**

**TAKE NOTICE** OF ANY YELLOW 'DANGER OF DEATH' WARNING SIGNS. AND STAY WELL AWAY!



REMEMBER ELECTRICITY **CAN JUMP GAPS**



**OVERHEAD POWER LINES** ARE OFTEN UNINSULATED (BARE)



**CABLES ARE OUT OF SIGHT** ALWAYS REQUEST CABLE PLANS BEFORE STARTING WORK



**TOUCHING ANYTHING** IN CONTACT WITH ELECTRICAL EQUIPMENT, EVEN THE LOWEST OF VOLTAGES, CAN BE FATAL



CARRY OBJECTS AND EQUIPMENT **HORIZONTALLY AND AT LOW LEVEL** TO THE GROUND

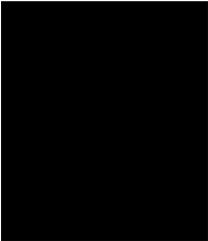


# The electricity network is designed to keep you safe. But how safe are you when you are working?

**UK Power Networks** is the country's biggest electricity distributor, making sure the lights stay on for more than eight million homes and businesses across London, the South East and the East of England.

**The safety of our customers and staff is our top priority.**

Underground cables carry a powerful electrical charge which can be conducted through machinery and equipment with fatal consequences. Anyone working close to live underground cables should take the time to read this simple leaflet and identify the precautions they should be taking.



**WATCH OUR EXCAVATION  
ANIMATION BY SCANNING  
THE QR CODE WITH YOUR  
PHONE CAMERA.**



# Keep well away - Electricity can kill



## Remember:

- The depth and location of cables and services shown on the plans may have changed because of subsequent site alterations
- Be aware that not all cables and services may be shown on the plans
- Cables do not run in straight lines. Underground cables may be deflected around underground obstacles and can change depth
- Wear Personal Protective Equipment to minimise the harm of electric shock and burns



# How can we help?

If you work or live in the UK Power Networks area contact us or look on our website. We provide free information and advice about the precautions and safe working practices to be followed when working close to electrical equipment.

Further advice and guidance is available from the Health and Safety Executive (HSE):

**HSG85 - Electricity at Work – Safe Working Practices**

**GS6 - Avoiding Danger from Overhead Power Lines**

**HSG47 - Avoiding Danger from Underground Services**

## What to do in an emergency

If a mains electricity cable is damaged:

- **STOP WORK IMMEDIATELY**
- Notify UK Power Networks: Dial 105
- If you damage a cable, stay calm, keep clear, and call for help
- Call the emergency services if anyone is injured or there is a fire. Anyone who has received an electric shock should go to hospital as damage may have occurred to the heart
- Always treat the cable(s) as live even if they are not sparking
- Never remove anything that is stuck or in contact with the cable
- Stay clear - keep everyone away until assistance arrives



To request your FREE vehicle cab stickers visit [www.ukpowernetworks.co.uk/internet/en/safety/](http://www.ukpowernetworks.co.uk/internet/en/safety/)

If you are unsure who your network operator is then please visit [www.energynetworks.org](http://www.energynetworks.org)

**Be Bright**

**Stay Safe**

**You could be in danger when carrying out your everyday trades activities such as digging, construction and demolition.**

**⚡ Contact UK Power Networks or Line Search Before U Dig (LSBUD) in advance of the works to obtain relevant cable plans or to request disconnections. The cable plans will only show the indicative route and not the route into the property**

**⚡ Ensure the cable plans are shown to and understood by those on site BEFORE starting work**

**⚡ Confirm the cable location by using a Cable Avoidance Tool (CAT) before digging commences. Once found, mark cable positions with spray paint or similar**

**For cable plans visit**

**⚡ Complete a risk assessment and ensure it covers electrical hazards**

**⚡ Use spades and shovels with insulated handles in preference to forks and picks**

**⚡ Look around for anything in the vicinity that would have an electricity service such as street lights, CCTV cameras, or meter boxes and identify where the cables are**

**⚡ Look for electrical wires, cables and equipment near to where you are going to work and check for warning signs and any other hazards**

**⚡ Contact UK Power Networks to agree a safe method of work if there is a cable encased in concrete, DO NOT BREAK OPEN**

**⚡ Make sure everyone on site is aware of the presence and location of electrical cables**

**⚡ Before demolishing a building make sure supplies are disconnected, preferably well clear of the work area. For guidance on how to arrange a disconnection visit [www.ukpowernetworks.co.uk](http://www.ukpowernetworks.co.uk)**

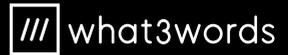
**NATIONAL POWER CUT HELPLINE**

**POWER CUT?  
CALL 105**

**ADD THIS NUMBER TO YOUR TELEPHONE CONTACTS LIST**



# Stop! Think before you dig!



National power cut helpline



Or call us  
24 hours a day on

For safety advice about overhead power lines,

To request your FREE vehicle cab stickers visit

If you are unsure who your network operator is then please visit

To report broken or damaged electrical equipment or in an emergency call 105 and use what3words to help us locate you faster.



## Enquirer

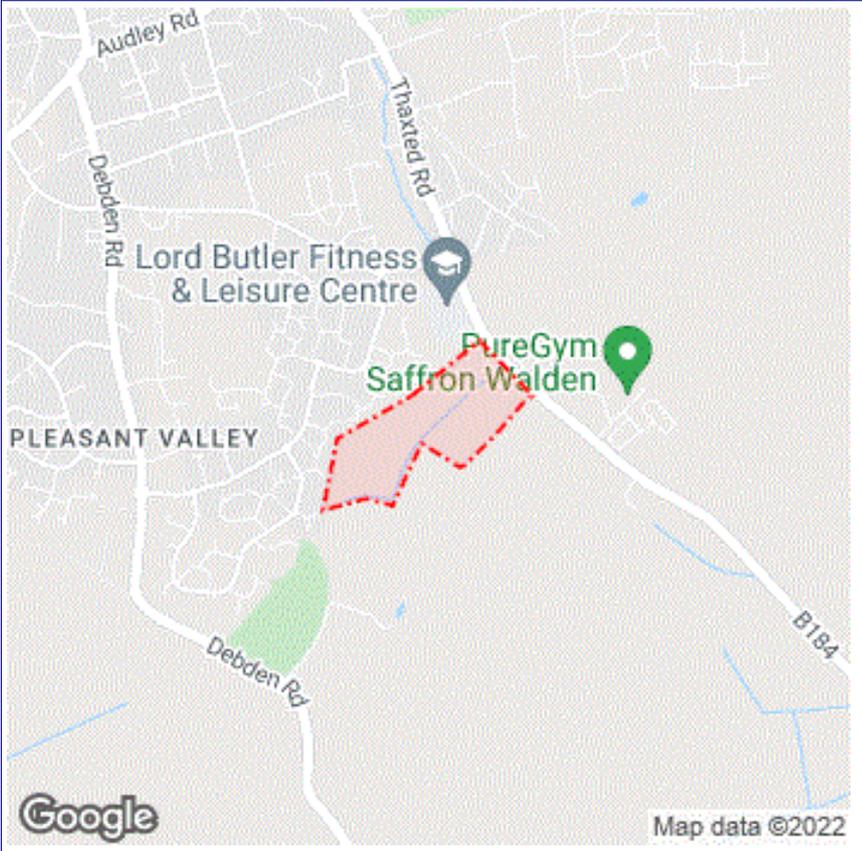
Name	Miss Tracey Mehew	Phone	[REDACTED]
Company	Rolton Group Ltd	Mobile	Not Supplied
Address	The Charles Parker Building Midland Road Higham Ferrers Northamptonshire NN10 8DN		
Email	[REDACTED]		

## Enquiry Details

Scheme/Reference	22-0222 1		
Enquiry type	Initial Enquiry	Work category	Development Projects
Start date	21/03/2022	Work type	Commercial/industrial
End date	25/03/2022	Site size	92631 metres square
Searched location	XY= 554626, 237265	Work type buffer*	75 metres
Confirmed location	554691 237274		
Site Contact Name	Shaun Pentlow	Site Phone No	[REDACTED]
Description of Works			

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

## Site Map



## Asset Owners

**Terms and Conditions.** Please note that this enquiry is subject always to our standard terms and conditions available at [www.linesearchbeforeudig.co.uk](http://www.linesearchbeforeudig.co.uk) ("Terms of Use") and the disclaimer at the end of this document. Please note that in the event of any conflict or ambiguity between the terms of this Enquiry Confirmation and the Terms of Use, the Terms of Use shall take precedence.

**Notes.** Please ensure your contact details are correct and up to date on the system in case the LSBUD Members need to contact you.

**Validity and search criteria.** The results of this enquiry are based on the confirmed information you entered and are valid only as at the date of the enquiry. It is your responsibility to ensure that the Enquiry Details are correct, and LineSearchbeforeUdig accepts no responsibility for any errors or omissions in the Enquiry Details or any consequences thereof. LSBUD Members update their asset information on a regular basis so you are advised to consider this when undertaking any works. It is your responsibility to choose the period of time after which you need to resubmit any enquiry but the maximum time (after which your enquiry will no longer be dealt with by the LSBUD Helpdesk and LSBUD Members) is 28 days. If any details of the enquiry change, particularly including, but not limited to, the location of the work, then a further enquiry must be made.

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

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

Below are three lists of asset owners:

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

**LSBUD Members who have assets registered on the LSBUD service within the vicinity of your search area.**

### List of affected LSBUD members

Asset Owner	Phone/Email	Emergency Only	Status
Cadent Gas	0800688588	0800111999	Await response
UK Power Networks	08000565866	08000565866	Await response

**LSBUD Members who do not have assets registered on the LSBUD service within the vicinity of your search area. Please be aware that LSBUD Members make regular changes to their assets and this list may vary for new enquiries in the same area.**

### List of not affected LSBUD members

AWE Pipeline	Balfour Beatty Investments Limited	BOC Limited (A Member of the Linde Group)
Box Broadband	BP Exploration Operating Company Limited	BPA
Carrington Gas Pipeline	CATS Pipeline c/o Wood Group PSN	Cemex
Centrica Storage Ltd	CNG Services Ltd	Concept Solutions People Ltd
ConocoPhillips (UK) Teesside Operator Ltd	D.S.Smith	Diamond Transmission Corporation
DIO (MOD Abandoned Pipelines)	DIO (MOD Live Pipelines)	E.ON UK CHP Limited
EirGrid	Electricity North West Limited	ENI & Himor c/o Penspen Ltd
EnQuest NNS Limited	EP Langage Limited	ESP Utilities Group
ESSAR	Esso Petroleum Company Limited	euNetworks Fiber UK Ltd
EXA Infrastructure	Exolum Pipeline System	Fulcrum Pipelines Limited
Gamma	Gas Networks Ireland (UK)	Gateshead Energy Company
Gigaclear Ltd	Harbour Energy	Heathrow Airport LTD
Humbly Grove Energy	IGas Energy	INEOS FPS Pipelines
INEOS Manufacturing (Scotland and TSEP)	INOVYN ChlorVinyls Limited	INOVYN Enterprises Limited
Intergen (Coryton Energy or Spalding Energy)	Jurassic Fibre Ltd	Last Mile
Mainline Pipelines Limited	Manchester Jetline Limited	Manx Cable Company
Marchwood Power Ltd (Gas Pipeline)	Melbourn Solar Limited	Murphy Utility Assets
National Grid Electricity Transmission	National Grid Gas Transmission	Neos Networks
Northumbrian Water Group	NPower CHP Pipelines	NTT Global Data Centers EMEA UK Ltd
NYnet Ltd	Oikos Storage Limited	Ørsted
Palm Paper Ltd	Perenco UK Limited (Purbeck Southampton Pipeline)	Petroineos
Phillips 66	Portsmouth Water	Premier Transmission Ltd (SNIP)
Redundant Pipelines - LPDA	RWE - Great Yarmouth Pipeline (Bacton to Great Yarmouth Power Station)	RWEpower (Little Barford and South Haven)
SABIC UK Petrochemicals	SAS Utility Services Ltd	Scottish and Southern Electricity Networks
Scottish Power Generation	Seabank Power Ltd	SES Water
SGN	Shell	Shell NOP
SP Energy Networks	Squire Energy Networks	SSE Generation Ltd
SSE Transmission	SSE Utility Solutions Limited	Tata Communications (c/o JSM Construction Ltd)

Total Colnbrook Pipelines	Total Finaline Pipelines	Transmission Capital
Uniper UK Ltd	University of Cambridge Granta Backbone Network	Vattenfall
Veolia ES SELCHP Limited	Veolia ES Sheffield Ltd	VPI Power Limited
Wales and West Utilities	West of Duddon Sands Transmission Ltd	Western Power Distribution
Westminster City Council	Zayo Group UK Ltd c/o JSM Group Ltd	

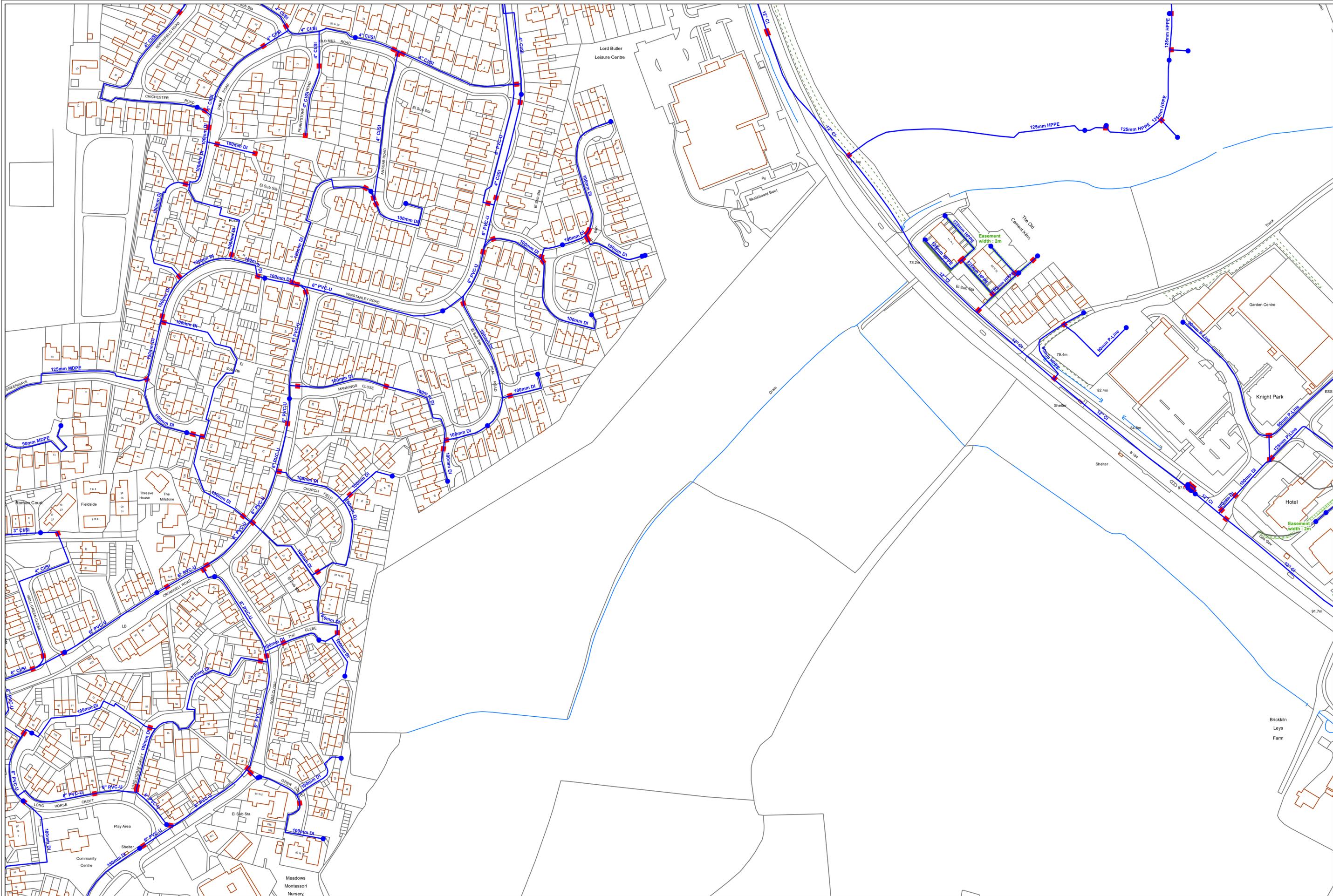
The following Non-LSBUD Members may have assets in your search area. It is YOUR RESPONSIBILITY to contact them before proceeding. Please be aware this list is not exhaustive and it is your responsibility to identify and contact all asset owners within your search area.

Non-LSBUD members (Asset owners not registered on LSBUD)			
Asset Owner	Preferred contact method	Phone	Status
Affinity Water	[REDACTED]	[REDACTED]	Not Notified
Anglian Water	[REDACTED]	[REDACTED]	Not Notified
BT	[REDACTED]	[REDACTED]	Not Notified
CityFibre	[REDACTED]	[REDACTED]	Not Notified
Colt	[REDACTED]	[REDACTED]	Not Notified
ENGIE	[REDACTED]	[REDACTED]	Not Notified
Essex County (West Area)	[REDACTED]	[REDACTED]	Not Notified
GTC	[REDACTED]	[REDACTED]	Not Notified
Lumen Technologies	[REDACTED]	[REDACTED]	Not Notified
Mobile Broadband Network Limited	[REDACTED]	[REDACTED]	Not Notified
Sky UK Limited	[REDACTED]	[REDACTED]	Not Notified
Sota	[REDACTED]	[REDACTED]	Not Notified
Utility assets Ltd	[REDACTED]	[REDACTED]	Not Notified
Verizon Business	[REDACTED]	[REDACTED]	Not Notified
Virgin Media	[REDACTED]	[REDACTED]	Not Notified
Vodafone	[REDACTED]	[REDACTED]	Not Notified

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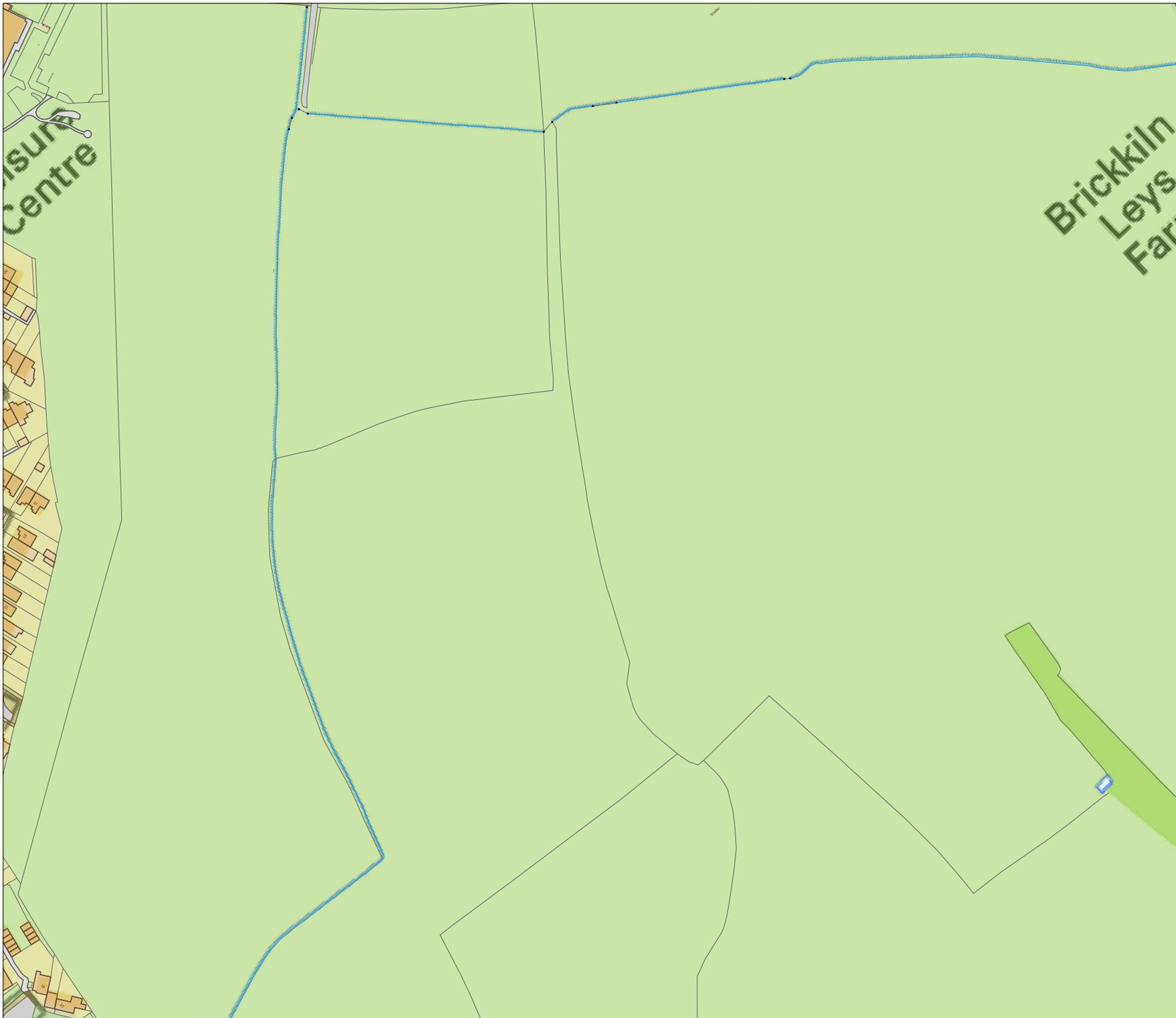


**Land South of Saffron Walden , MEP & MEP1**

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	Distribution Main		Hydrant
	Asbestos Distribution Main		Fitting
	Abandoned Main		Easement
	Asbestos Abandoned Main		Company Boundary
	Adf / Tunnel		
	Cable		



bitmap\_layout select\_raster

# LEGEND

- EXISTING PLANT
- EXISTING PLANT

bitmap\_layout select\_raster

Head Office  
CityFibre Holdings Ltd  
15 Bedford Street,  
London,  
WC2E 9HE

Asset Office  
CityFibre Holdings Ltd,  
Rutherford House,  
Birchwood,  
Warrington,  
WA3 6ZH

Tel: [REDACTED]  
Web: [REDACTED]

Email: [REDACTED]

**Disclaimer:**

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

**Project**

Plant Enquiry

**Drawing**

Existing Plant

**Drawn by:**

smallworld

Date: 18/03/2022

**Drawing No.**

CFH\_EP\_000001

**Revision**

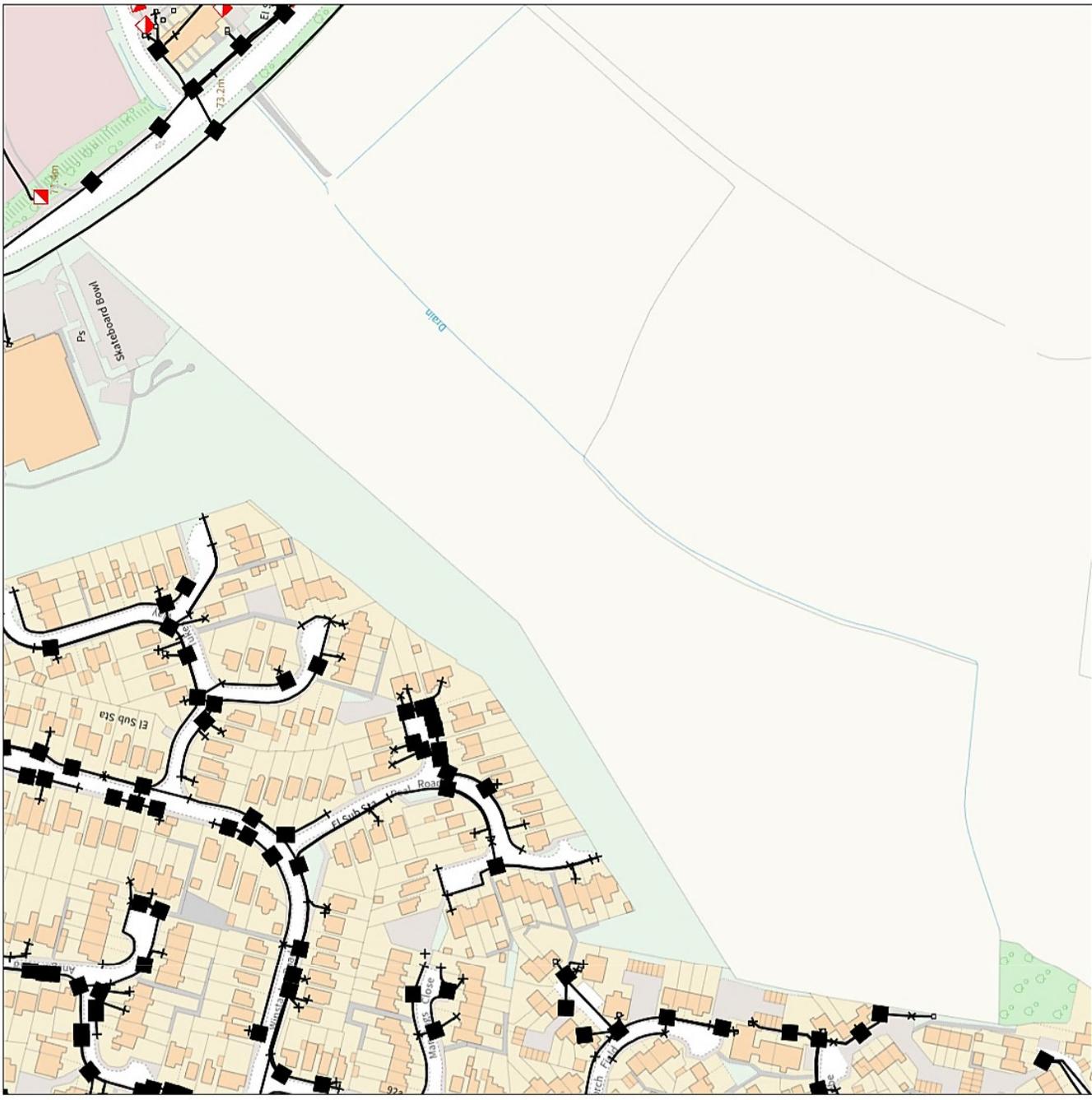
001

Scale: 1:2500

A4



# Maps by email Plant Information Reply



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



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

email [REDACTED]  
ADVANCE NOTICE REQUIRED  
 (Office hours: Monday - Friday 08.00 to 17.00)

**Accidents happen**  
 If you do damage any Openreach equipment, please let us know by calling [REDACTED] (opt 1 + opt 1) and we can get it fixed ASAP

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## KEY TO BT SYMBOLS

	KEY TO BT SYMBOLS		Change Of State		Hatchings
	Planned	Live	Split Coupling	+	
PCP	[Red dashed box]	[Black box]	[X]	[+]	[Cross-hatch]
Pole	[Red circle]	[White circle]	[Duct Tee]	[Triangle]	[Black line]
Box	[Red square]	[Black square]	Building	[Yellow square]	[Red dashed line]
Manhole	[Red square]	[Black square]	Kiosk	[Circle with K]	[Purple line]
Cabinet	[Red dashed box]	[White box]			[Black line]

Other proposed plant is shown using dashed lines.  
 BT Symbols not listed above may be disregarded.  
 Existing BT Plant may not be recorded.  
 Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.

	Pending Add	In Place	Pending Remove	Not In Use
Power Cable	[Blue lightning bolt]	[Blue lightning bolt]	[Blue lightning bolt]	[Blue lightning bolt]
Power Duct	[Blue lightning bolt]	[Blue lightning bolt]	[Blue lightning bolt]	N/A

BT Ref : OHA11078N  
 Map Reference : (centre) TL5462637265  
 Easting/Northing : (centre) 554626,237265  
 Issued : 18/03/2022 11:07:54

**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: mnhc@openreach.co.uk**

## Openreach Plant Maps Requested

NewSite Office (addresses can be found on [the New Developments contact page](#))

Dear Sir/Madam,

You have downloaded copies of our drawings marked up to show the approximate location of Openreach 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 Openreach 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 Openreach plant. Please ensure that our equipment is not enclosed, blocked, covered or otherwise obstructed by your plant. In the event of clearance not being adequate we anticipate that your plant is either resited, or an order is placed with Openreach for rearrangements of its plant. If there are any difficulties with the Map please email [REDACTED]

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Please contact our Network Protection Service by Email on [REDACTED] giving four calendar weeks notice of your commencement date. This will provide you with on-site advice and a check of location for any Openreach apparatus.

---

Further to this, I hope the following points will assist you at the new development: -

Openreach has a licence obligation to provide service to any end customer requiring a connection. A Developer would not normally be charged for provision of service, our standard connection charges would apply to the end user when orders are placed with the communication provider of choice. However, should a Developer insist on an underground service in an area where Openreach plant is provided overhead, charges may be incurred.

When the Developer has obtained contract and planning permission Openreach would request a 'Clean', scaled Site Layout, Location Map and a covering letter be sent to the relevant newSite Office. We would particularly request that you give details of your programmed site start date and likely first occupancy date where possible. To obtain contact details of the newSite office covering the development area click on the URL below.

[REDACTED]

Where a development affects existing Openreach apparatus in the public highway, the cost of any necessary protection or diversionary works must be borne by the Developer. In this case where a budget estimate is required a Site Plan, Location Map and a covering letter should be forwarded to the Repayments Project Office. Please visit [REDACTED] for contact details of the Repayments Office covering the development area.

Yours faithfully,

## Openreach newSites

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The Client: **Kier Ventures Ltd**  
The Development: **Land South of Saffron Walden, Essex**

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