

Our Ref: 26075879      Your Ref: LM 109528/SuC

Monday, 27 June 2022

Ben Evans  
The Hub, 500 Park Avenue, Aztec West  
Almondsbury  
Bristol  
BS32 4RZ

**CHECKED**

Dear Ben Evans

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  
0800 056 5866



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



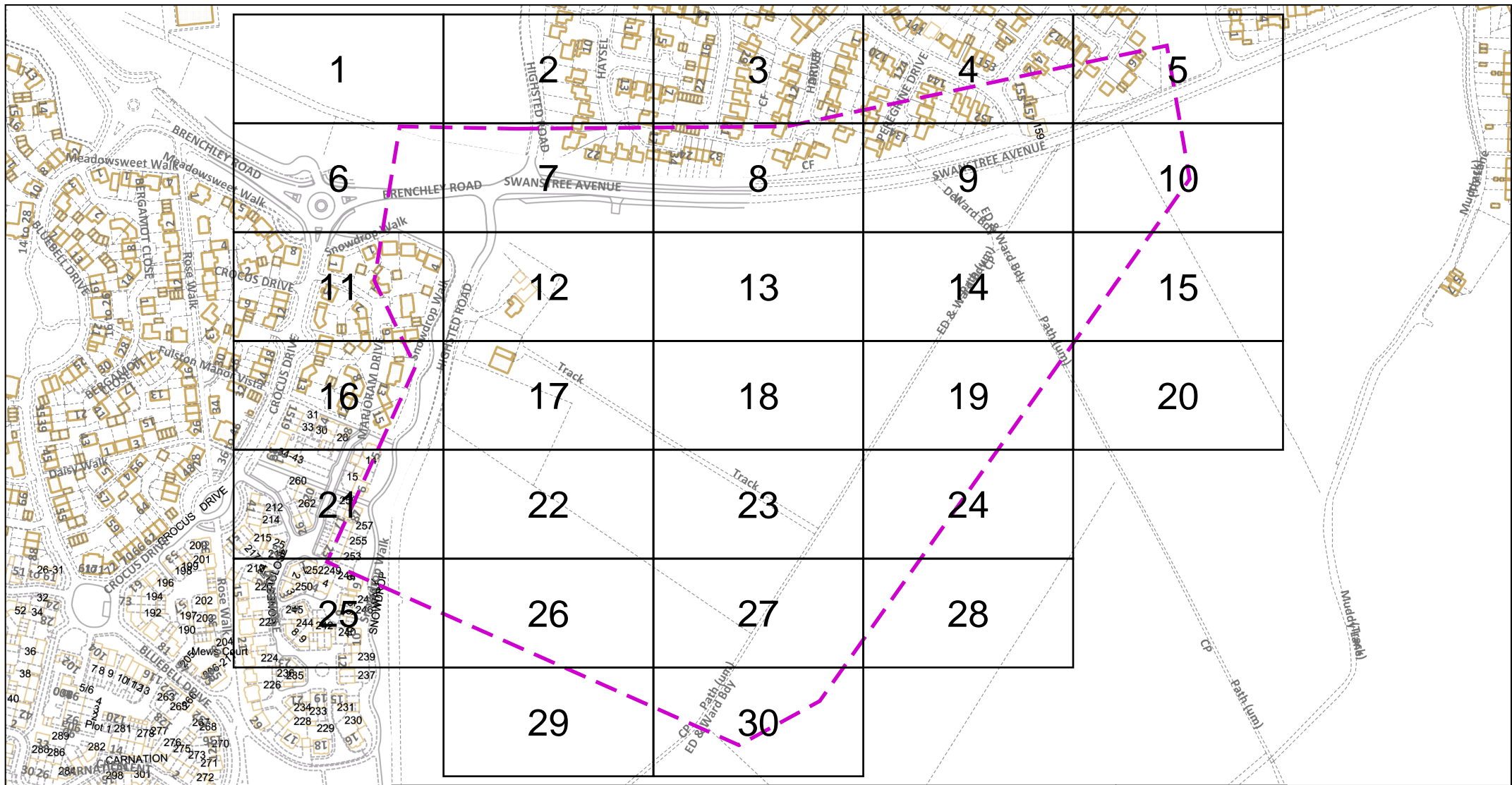
- 9 Any work near to any overhead electricity lines must be carried out by you in accordance with the Health and Safety Executive guidance document GS6 and the Electricity at Work Regulations.

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: 

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

Date Requested: 27/06/2022

Job Reference: 26075879

Site Location: 590943 162300

Requested by:

Mr Ben Evans

Your Scheme/Reference: LM

109528/SuC

Scale: 1:3588 (When plotted at A4)

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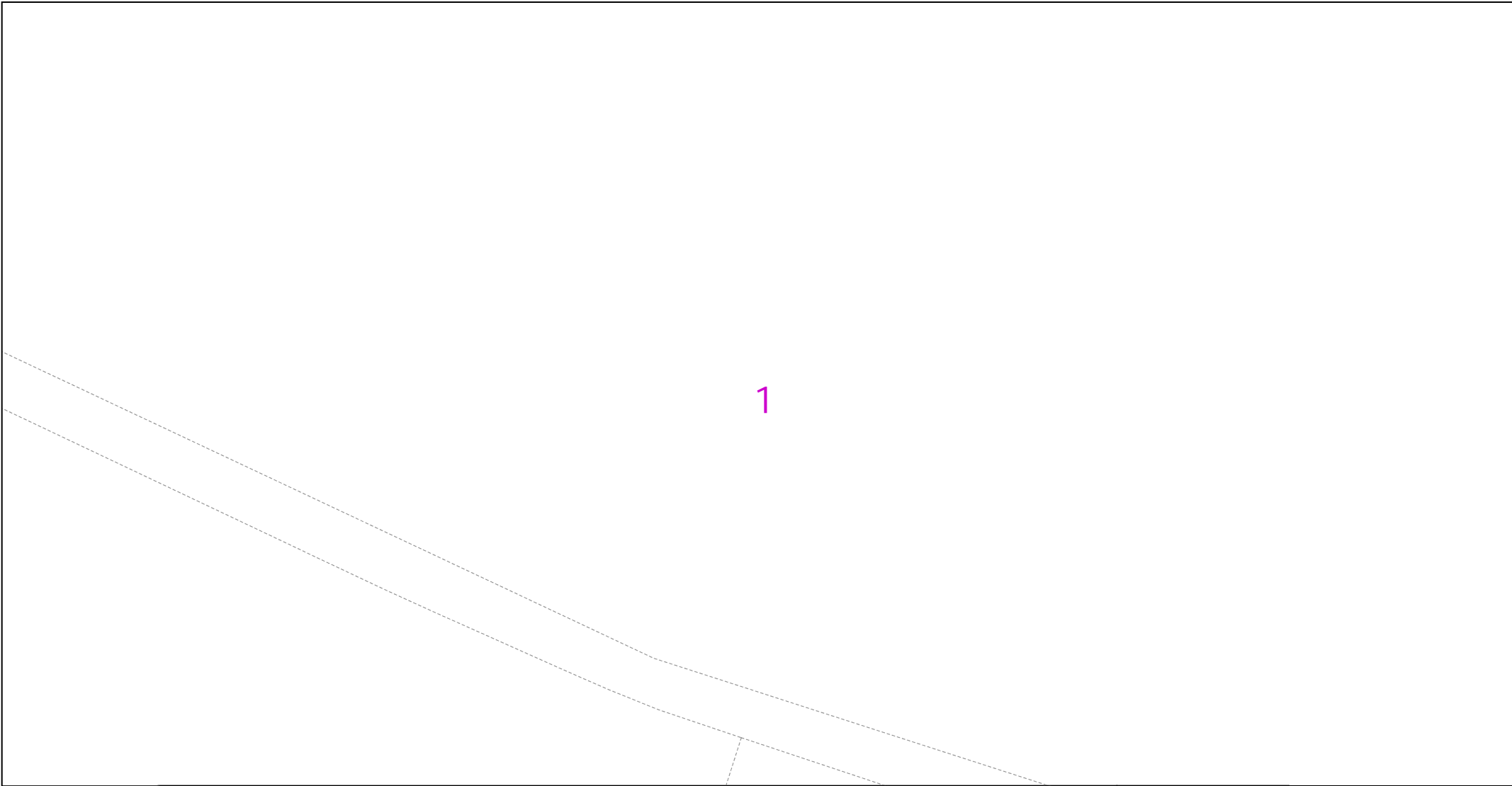
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URGENTLY



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Refer to HSE Guidance  
note GS6

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1


0


12.5

25



metres

Dig Sites


Area: 

Line: 

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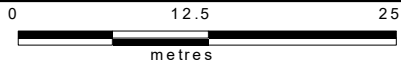
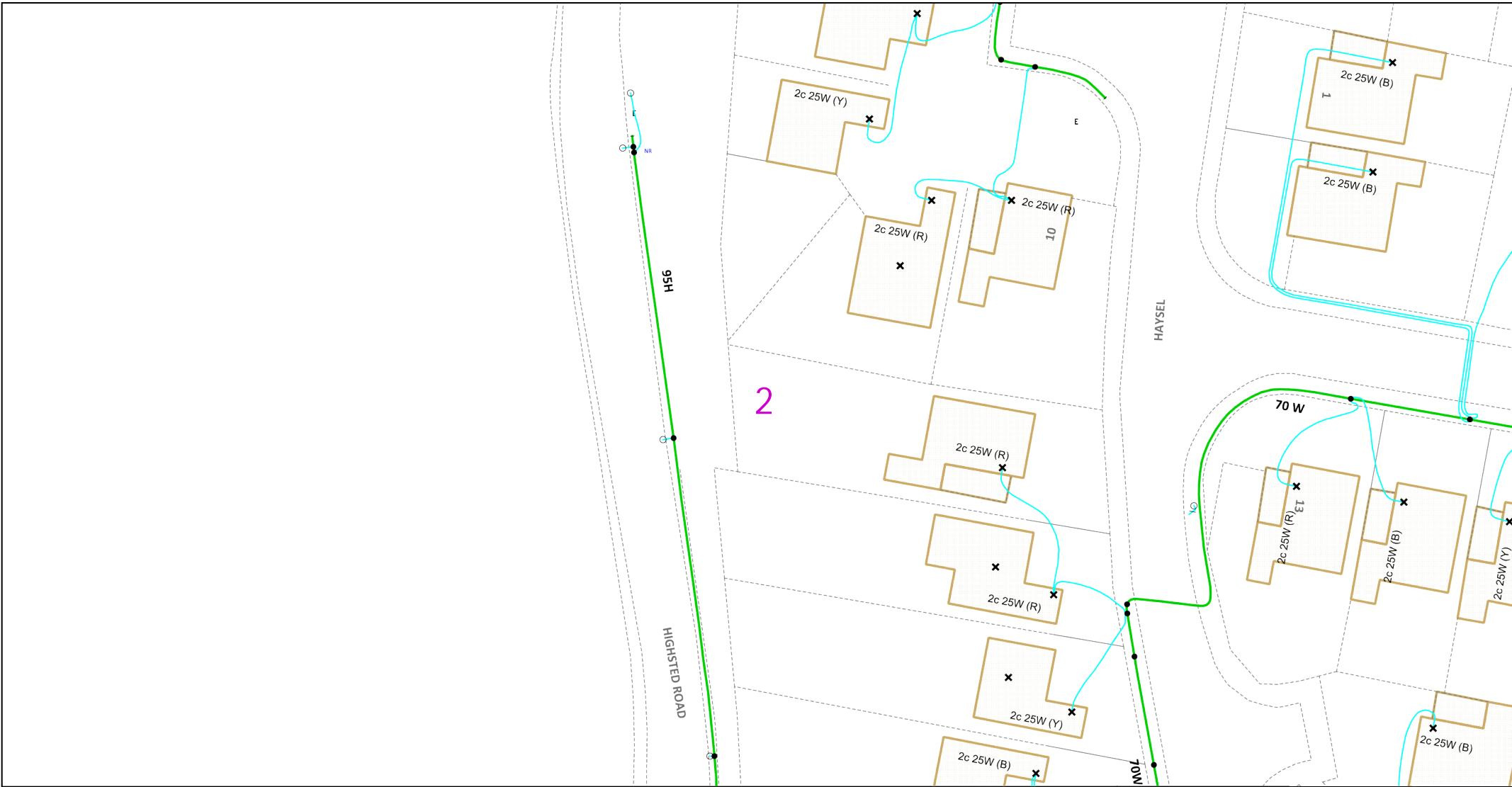
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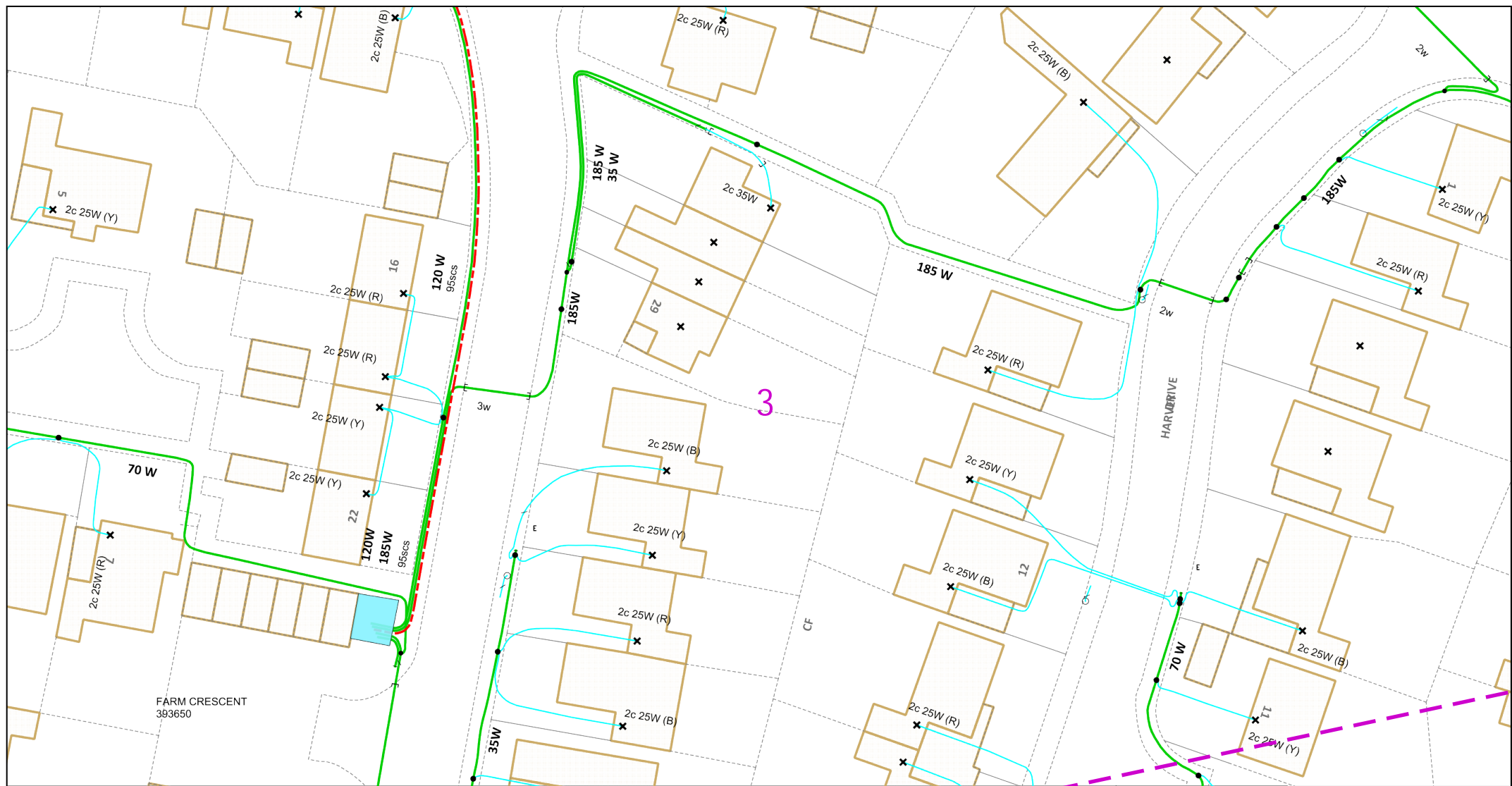
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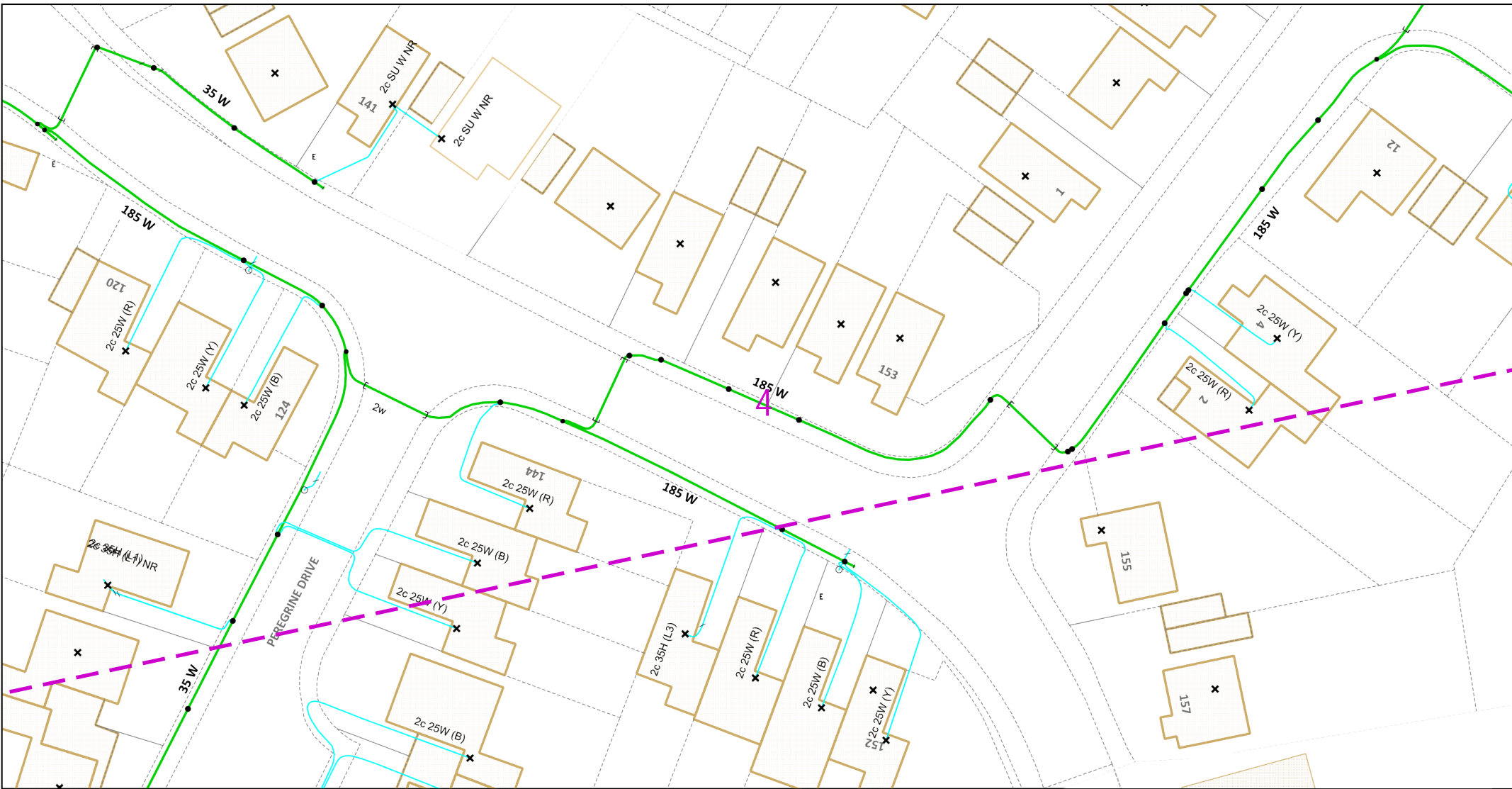


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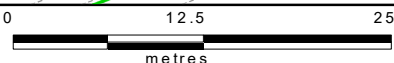
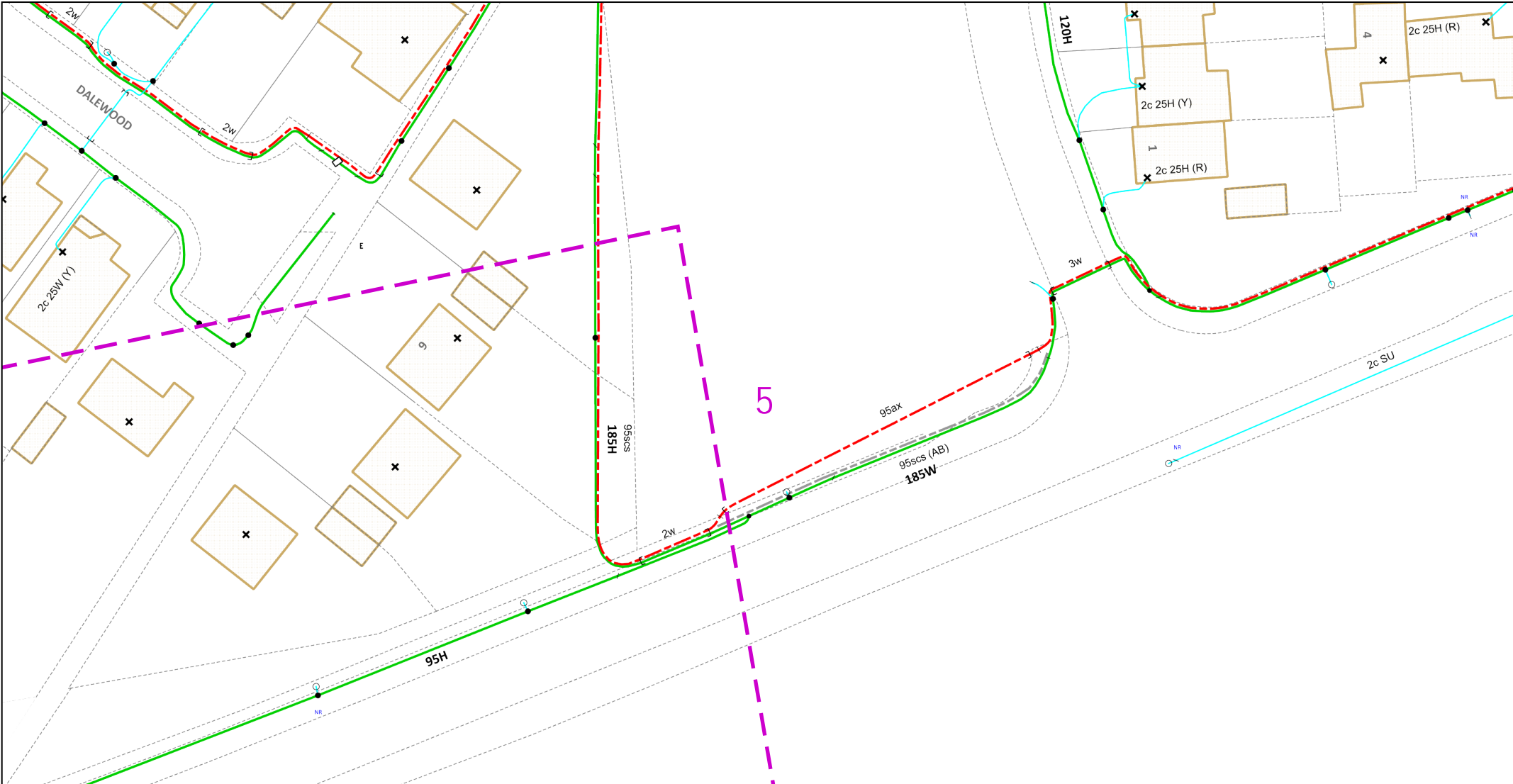
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<p>0 12.5 25 metres</p> <p><b>Dig Sites</b> Area:  <b>Line:</b> </p>		<p>The quality and accuracy of any print will depend on your printer, your computer and its print settings. Measurements scaled from this plan may not match measurements between the same points on the ground.</p>	
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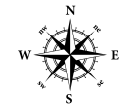
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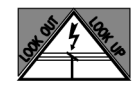
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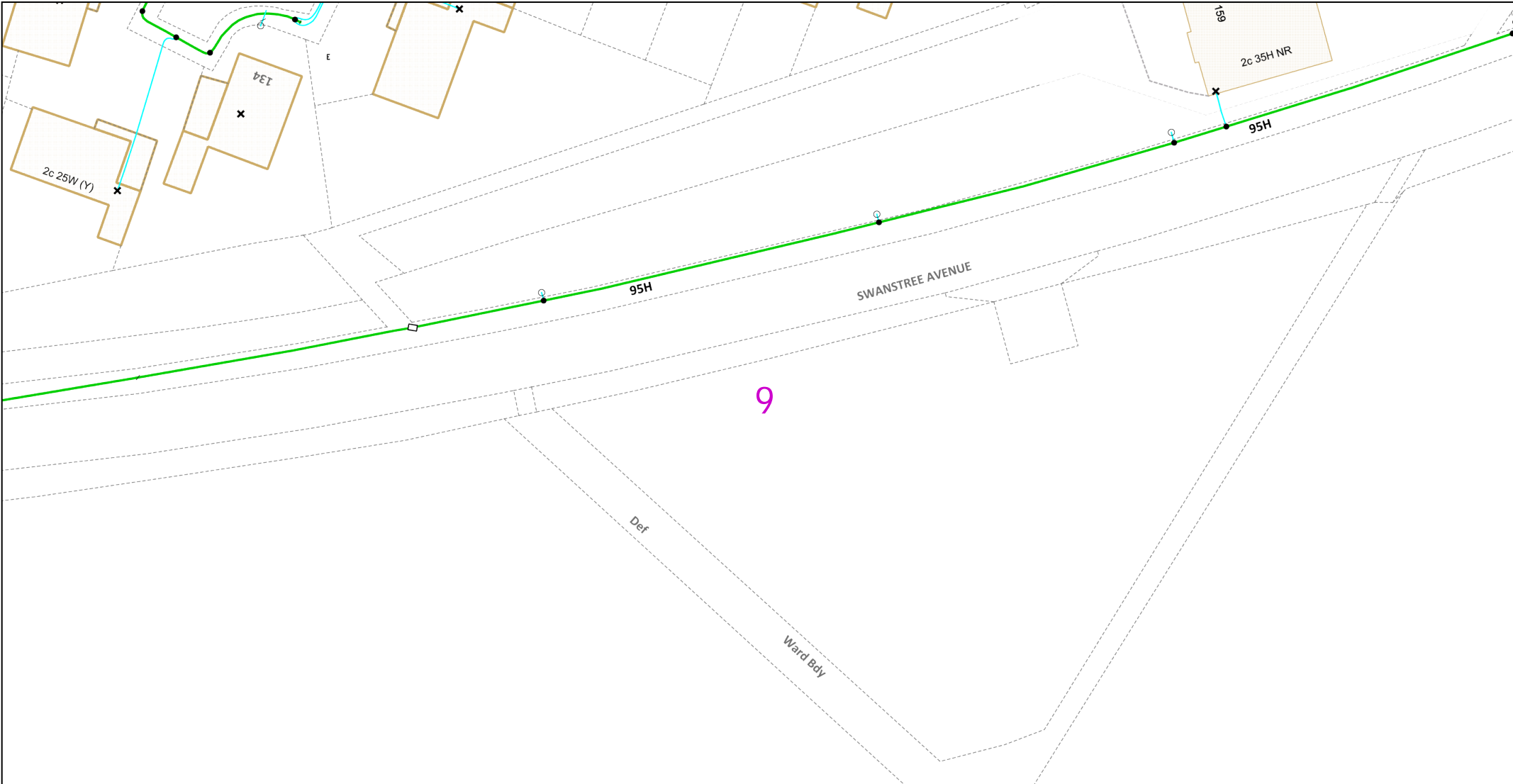
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012.525metres

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UK Power Networks

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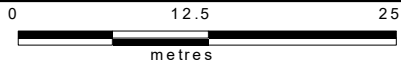
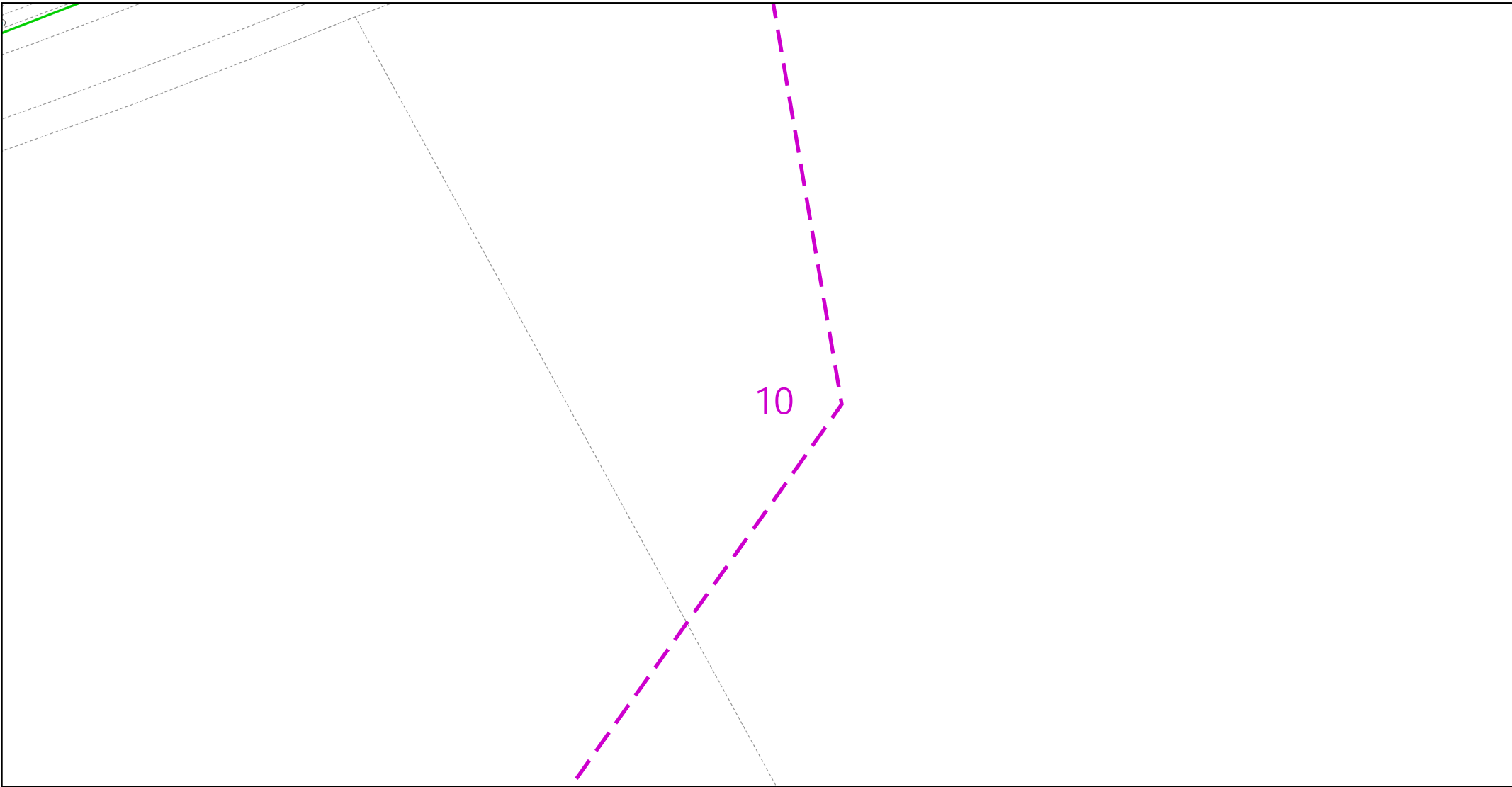
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Dig Sites Area:  Line: 

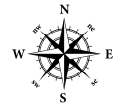
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Date Requested: 27/06/2022  
Job Reference: 26075879  
Site Location: 590943 162300  
Requested by: Mr Ben Evans  
  
Your Scheme/Reference: LM  
109528/SuC  
Scale: 1:500 (When plotted at A4)

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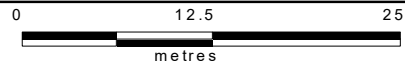
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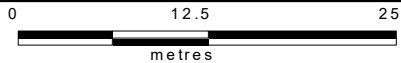
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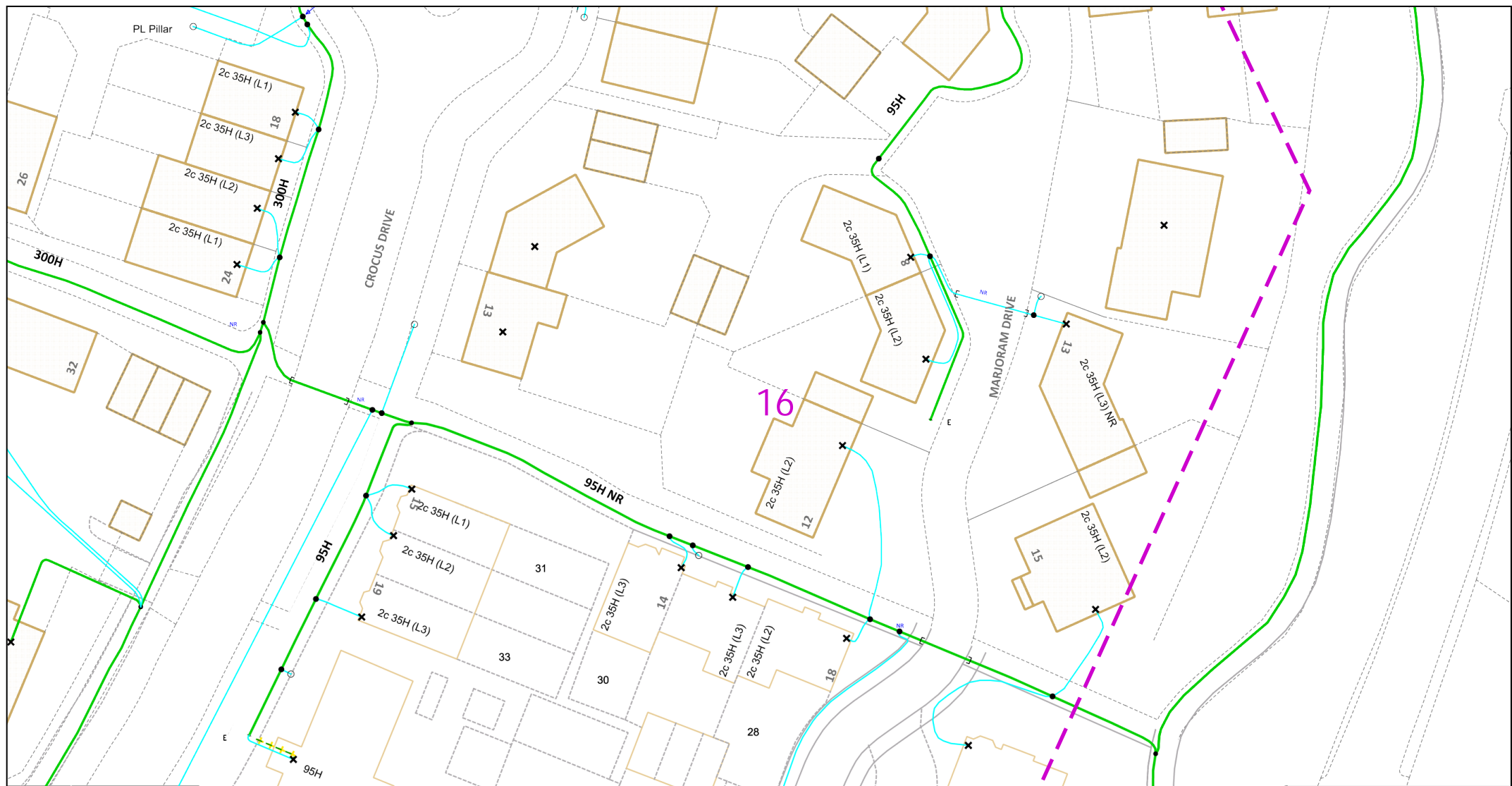


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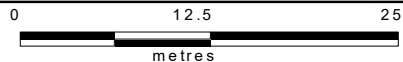
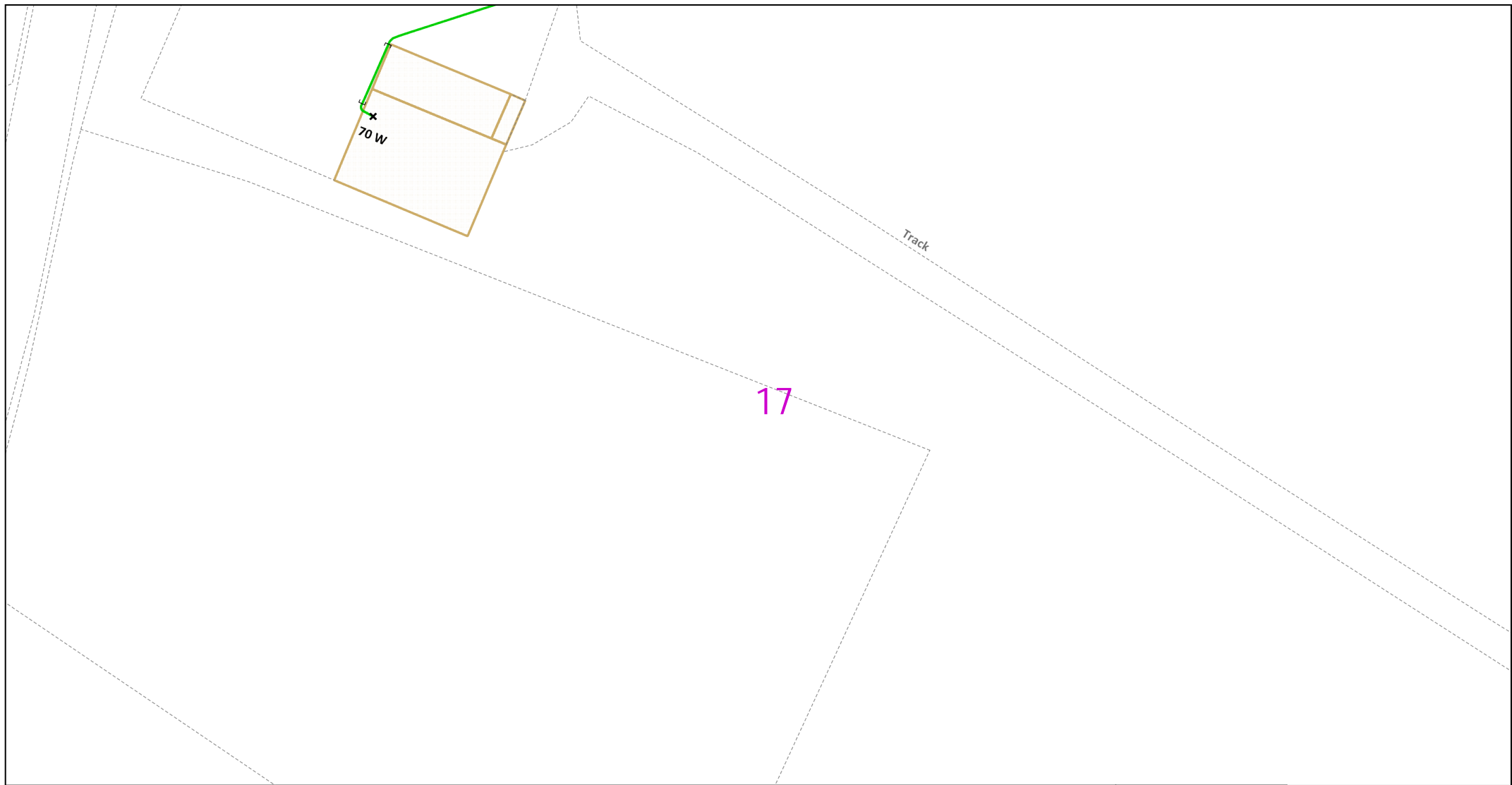
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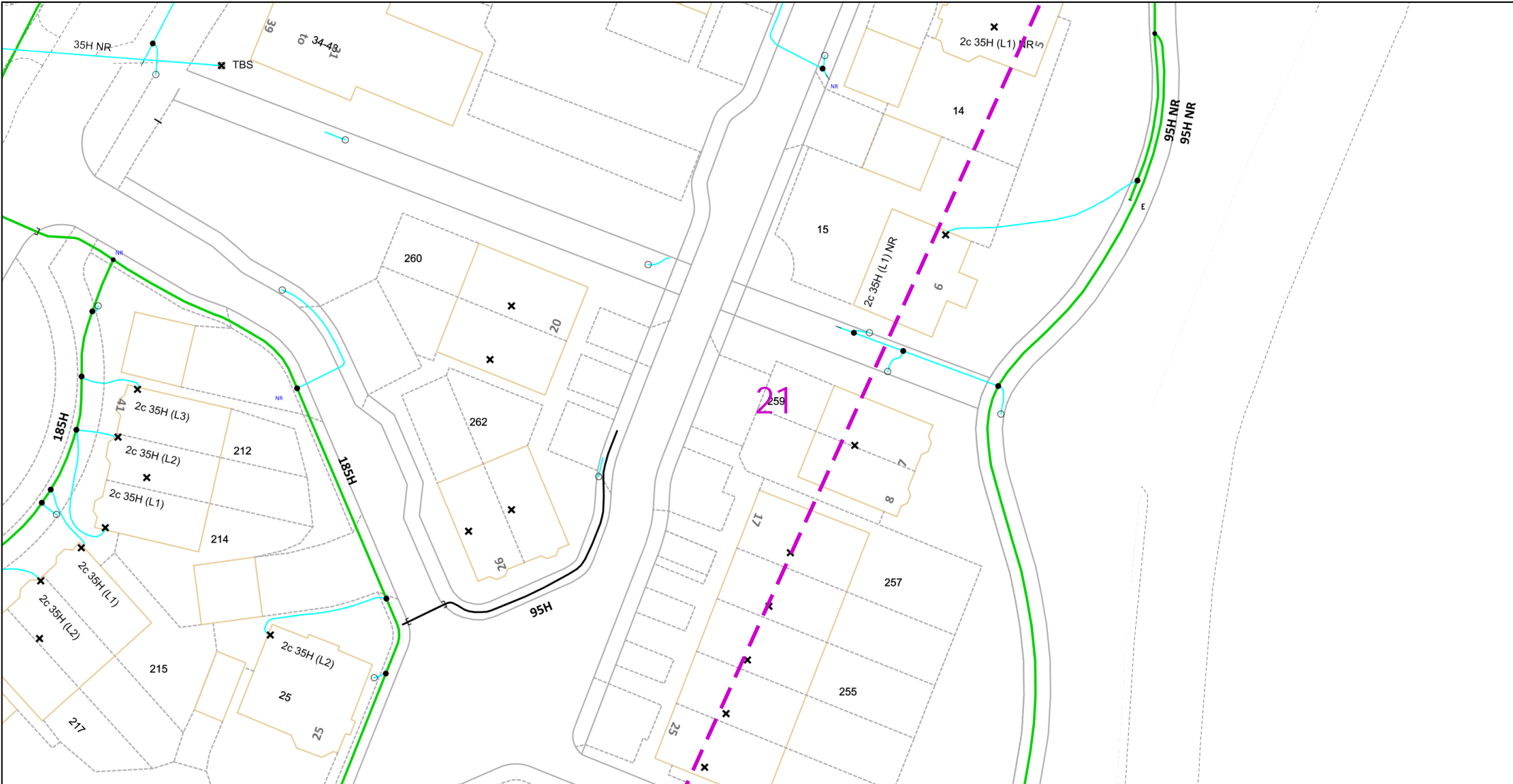


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Date Requested: 27/06/2022  
Job Reference: 26075879  
Site Location: 590943 162300  
Requested by: Mr Ben Evans

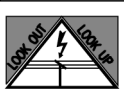
Your Scheme/Reference: LM  
109528/SuC  
Scale: 1:500 (When plotted at A4)

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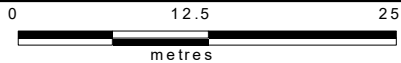


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22



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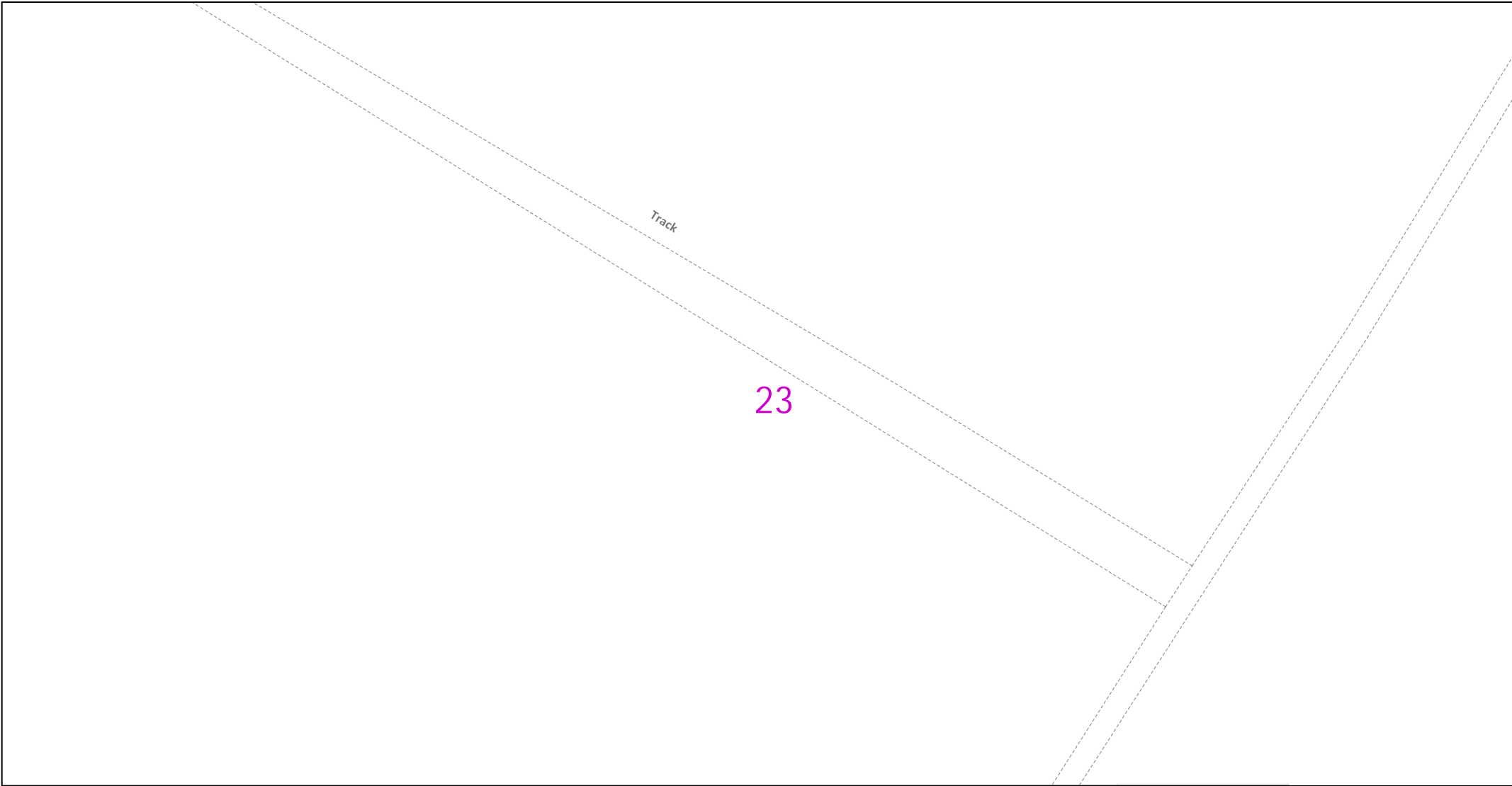


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012.525metres

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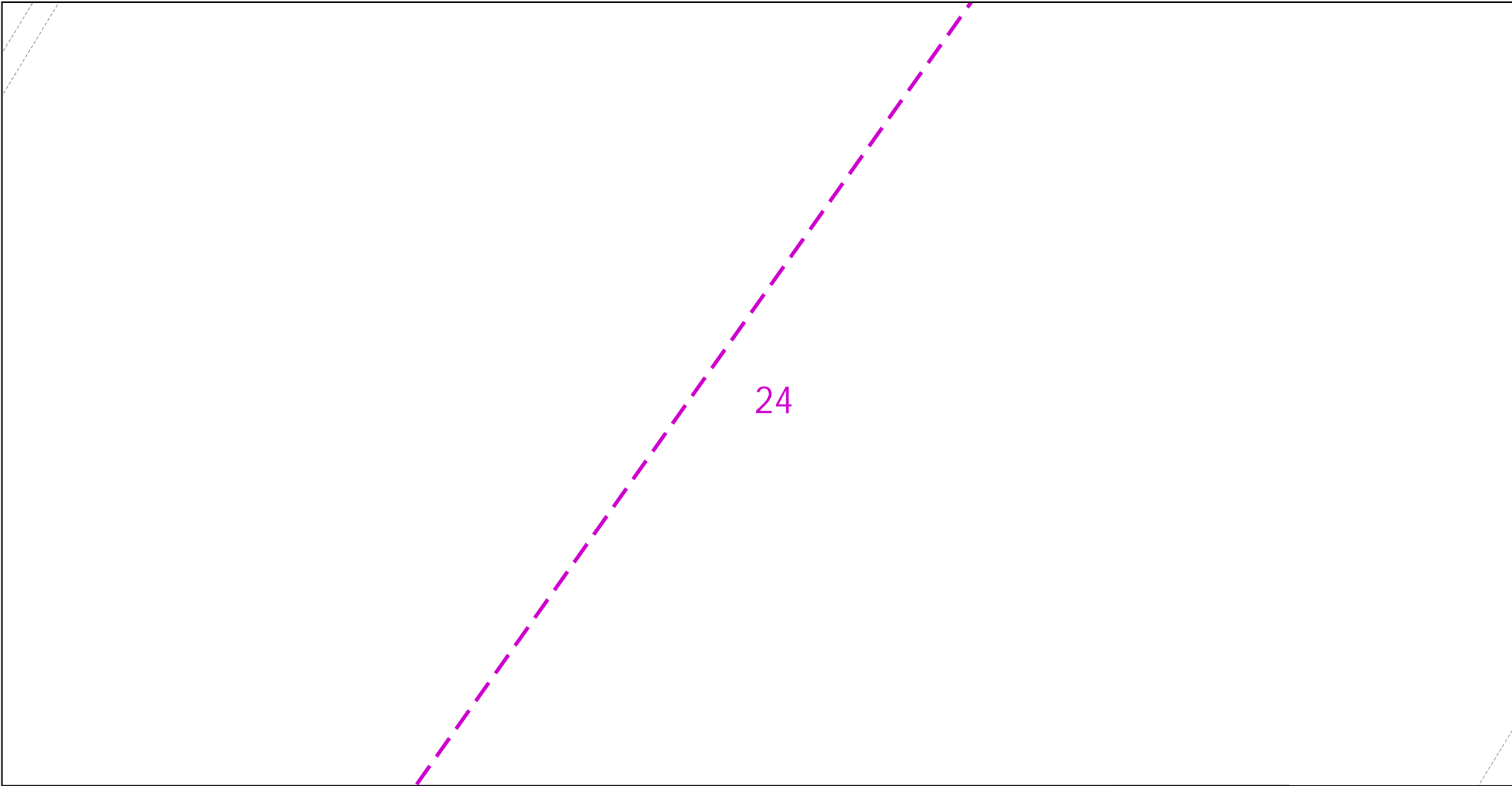
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012.525metres

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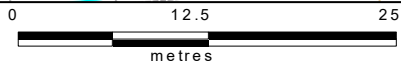
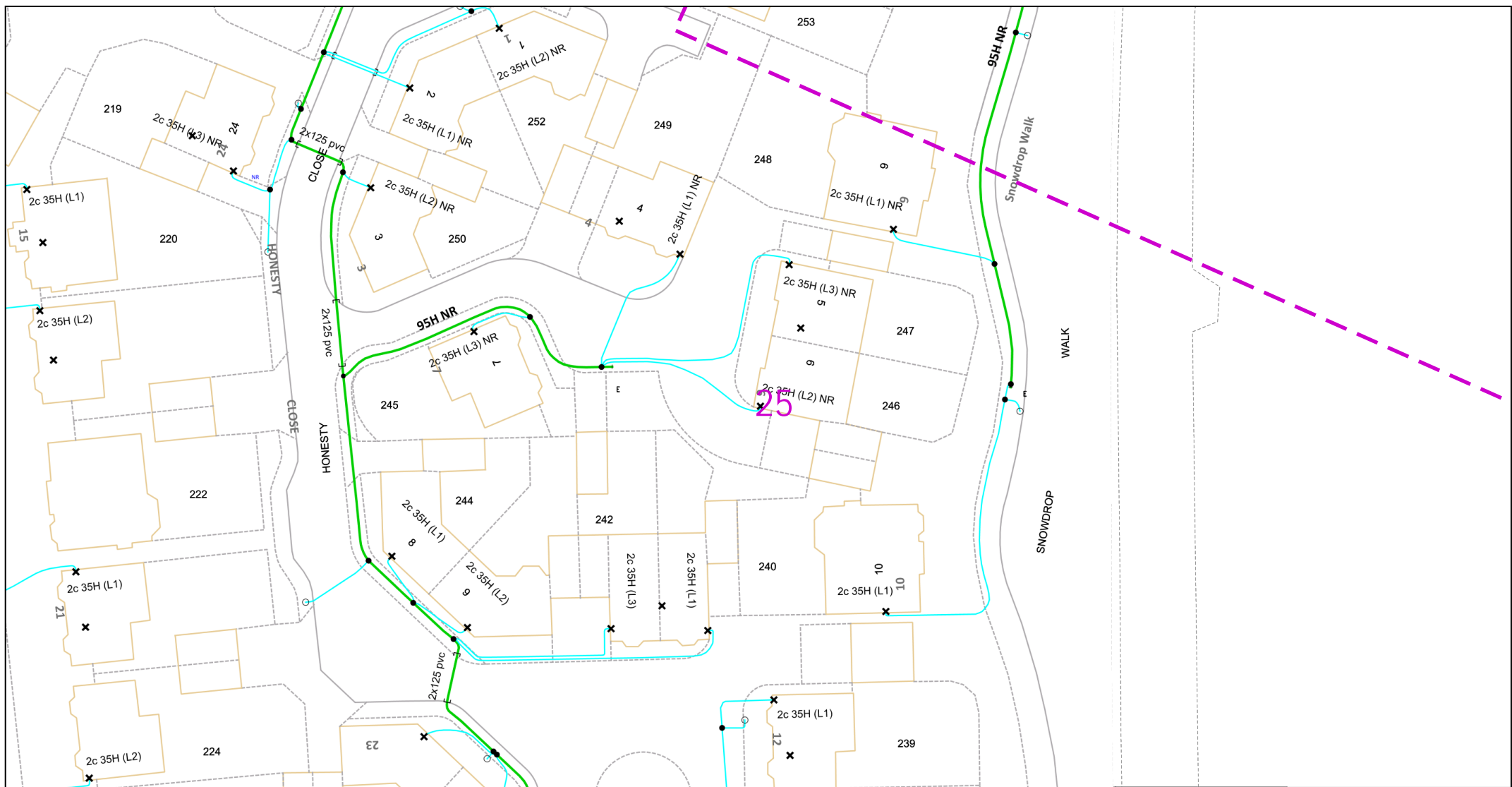
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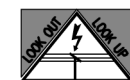
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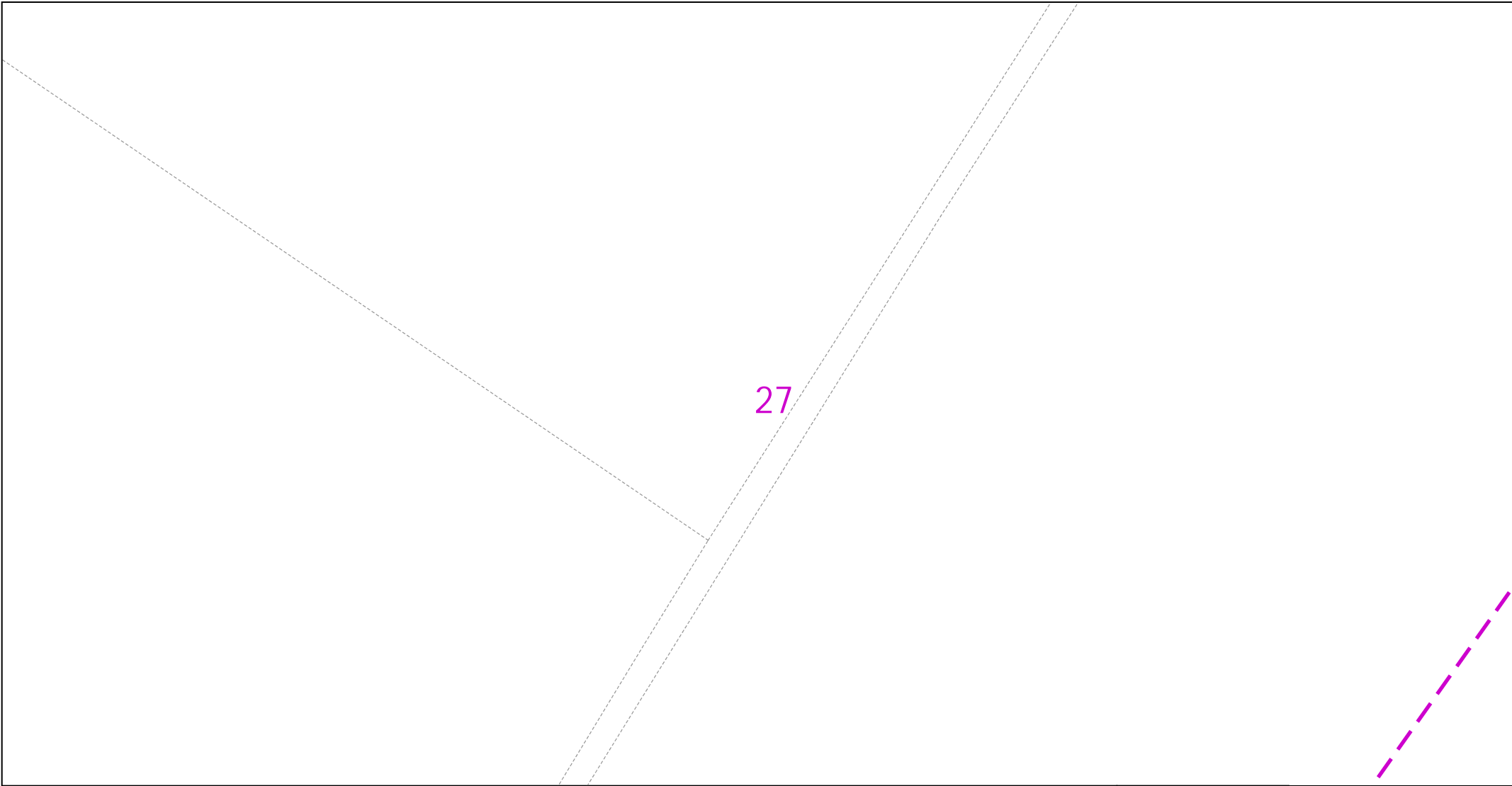
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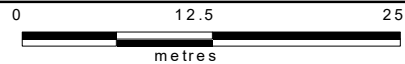


IF IN DOUBT - ASK! PHONE  
0800 056 5866  
EMERGENCY - If you damage a  
cable or line  
Phone 0800 783 8838 (24hrs)  
URGENTLY



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

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

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: 27/06/2022

Job Reference: 26075879

Site Location: 590943 162300

Requested by: Mr Ben Evans

Your Scheme/Reference: LM

109528/SuC

Scale: 1:500 (When plotted at A4)

1. The position of the apparatus shown on this drawing is believed to be correct but the original landmarks may have been altered since the apparatus was installed.  
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 provided must be given to all people working near UK Power Networks plant and equipment. Do not use plans more than 3 months after the issue date for excavation purposes.  
7. Please be aware that electric cables/lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.  
8. Please be aware the Low Voltage Overhead power lines are not currently displayed for the Eastern Region via this service, if you require records on the location of these please contact our Plan Provision team directly via plans@ukpowernetworks.co.uk.

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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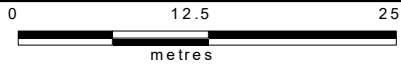
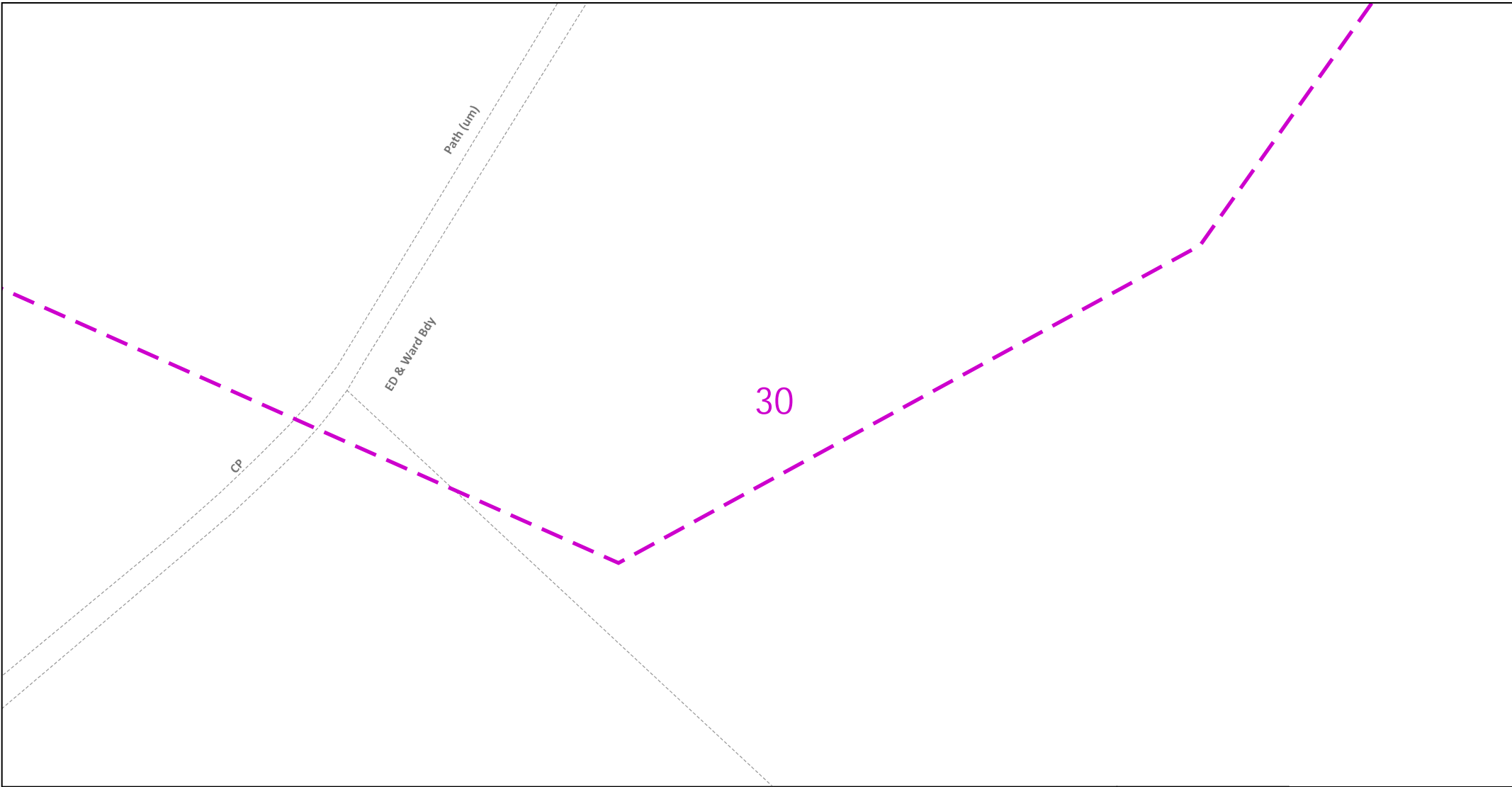


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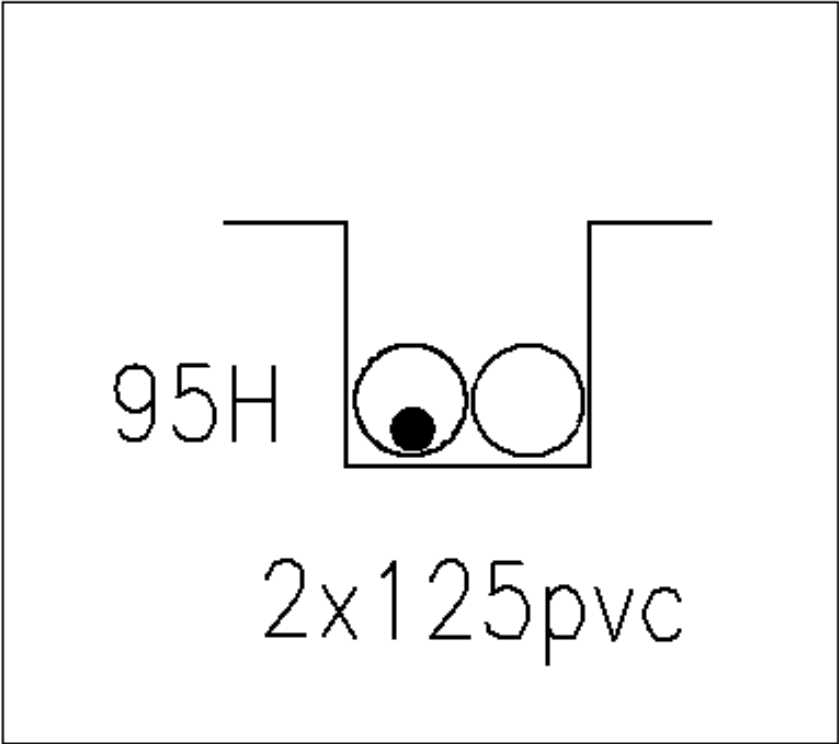


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<p>Date Requested: 27/06/2022 Job Reference: 26075879 Site Location: 590943 162300 Requested by: Mr Ben Evans  Your Scheme/Reference: LM 109528/SuC Scale: 1:500 (When plotted at A4)</p>			<p>IF IN DOUBT - ASK! PHONE 0800 056 5866 EMERGENCY - If you damage a cable or line Phone 0800 783 8838 (24hrs) URGENTLY</p>	 <p>ALWAYS LOOK UP BEFORE YOU START WORK Refer to HSE Guidance note GS6</p>

Cross Section : 2129899

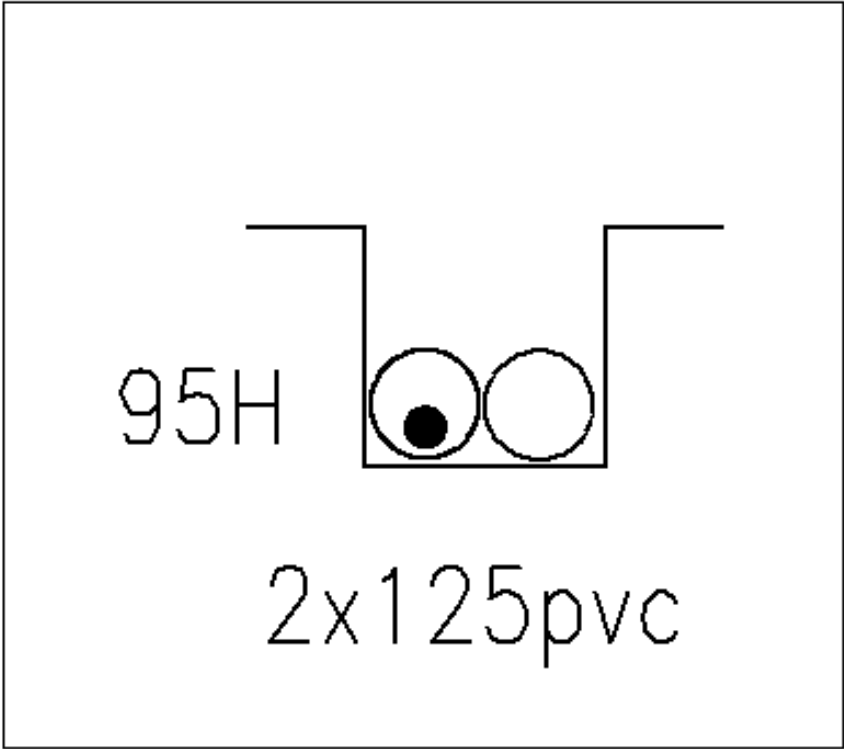


Cross Section  
2129899



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Cross Section : 2129898



Cross Section  
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# 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**



# Network Records NetMAP Symbols Booklet - South East England

**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: 08000 565866

## Index:-

Page no:	Contents:
1	Guidance notes.
2	The area covered by this guide.
3	<u>1:500 (&amp; 1:1250) view</u>
	Scenery.
4	Scenery (UK Power Networks use only).
7	Primary distribution line route (EHV).
8	Secondary distribution cables (HV/LV).
9	Secondary distribution cable terminology.
12	Cable ducts.
13	Poles.
14	EHV, HV and LV sites.
15	Joints.
16	Street furniture
17	Miscellaneous.
18	Connectivity.
19	Abbreviations.
20	Cable phasing.
21	Operational status colours.
22	<u>1:2500 view</u> (UK Power Networks use only).
	Notes.
23	Primary distribution line route.
24	Secondary distribution cables.
25	Primary and secondary sites.
27	Switch types.
28	<u>1:10000 view</u> (UK Power Networks use only).
	Notes.
29	Secondary distribution cables.
30	Primary and secondary sites.

## Guidance notes.

### **Important notice:**

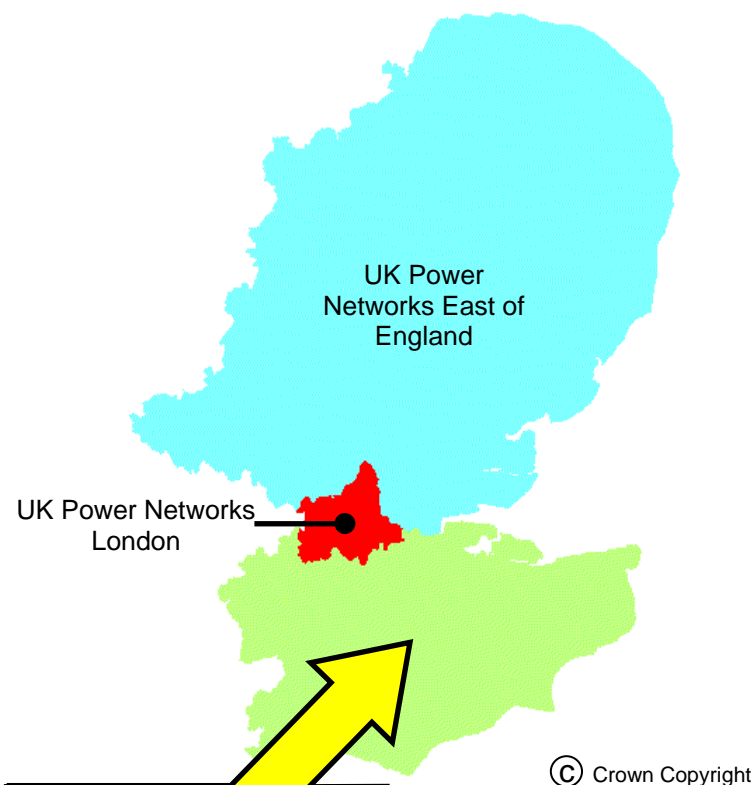
If you do not understand the NetMAP record that you are using, please contact the UK Power Networks Network Records team for guidance on  
**Tel: 08000 565866.**

- 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.
- Third party cables are not usually shown.
- When viewed in black and white, the line-style indicates the voltage.
- All LV cables are 4 core and all HV cables are 3 core – unless otherwise stated.
- All cables are copper – unless otherwise stated.



**Plan Provision Team  
and CableWatch  
Fore Hamlet  
Ipswich  
Suffolk IP3 8AA  
Tel: 08000 565866**

## **The area covered by this guide:**







### **UK Power Networks South East England.**








This is the only area  
where this booklet  
applies

## 1:500 (& 1:1250) view

### Scenery








NetMAP system	Description
   	<p>Secondary buildings and fence lines</p> <p>Building line</p> <p>Kerb line</p> <p>UK Power Networks / SPN licence boundary (not visible unless selected)</p>

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









NetMAP system	Description
 Inset Network – Contact xxxx IDNO for further information  	<p>Area of inset network - not the asset of UK Power Networks (only visible to UK Power Networks and their immediate contractors)</p> <p>Proposed Cross Rail route (only visible to UK Power Networks and their immediate contractors)</p> <p>High pressure pipelines in the general vicinity (only visible to UK Power Networks and their immediate contractors)</p>
<p>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.</p>	
   	<p>Water - surface water (only visible to UK Power Networks and their immediate contractors)</p> <p>Water - Source Protection Zone 1 (only visible to UK Power Networks and their immediate contractors)</p> <p>Water - Source Protection Zone 2 (only visible to UK Power Networks and their immediate contractors)</p> <p>Water - Source Protection Zone 3 (only visible to UK Power Networks and their immediate contractors)</p>
<p><b>section continued on next page</b></p>	






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

NetMAP system	Description
	Historical - Scheduled Monuments (only visible to UK Power Networks and their immediate contractors)
	Historical - Parks and Gardens (only visible to UK Power Networks and their immediate contractors)
	Historical - Areas of Archaeological Potential (AAP) (only visible to UK Power Networks and their immediate contractors)
	Nature - Ramsar Wetlands of International Importance (only visible to UK Power Networks and their immediate contractors)
	Nature - Special Area of Conservation (SAC) (only visible to UK Power Networks and their immediate contractors)
	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	










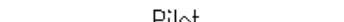



## Scenery for UK Power Networks use only - boxed in red

NetMAP system	Description
	Nature - Local Nature Reserve (only visible to UK Power Networks and their immediate contractors)
	Nature - National Nature Reserve (only visible to UK Power Networks and their immediate contractors)
	Nature - Area of Outstanding Natural Beauty (AONB) (only visible to UK Power Networks and their immediate contractors)
	Nature - National Park (only visible to UK Power Networks and their immediate contractors)
	Fluid filled cables - very high sensitivity (only visible to UK Power Networks and their immediate contractors)
	Fluid filled cables - high sensitivity (only visible to UK Power Networks and their immediate contractors)
	Fluid filled cables - medium sensitivity (only visible to UK Power Networks and their immediate contractors)
	Fluid filled cables - low sensitivity (only visible to UK Power Networks and their immediate contractors)

### Primary distribution line route (1:500 view)

NetMAP system	Description
	275–400kV National Grid route
	132kV cable route
	33kV cable route
Approximate routes only – see separate record	

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

NetMAP system	Description
	11kV underground cable
	11kV overhead line
	6.6kV underground cable
	6.6kV overhead line
	<6.6kV underground cable
	<6.6kV overhead line
	LV underground cable
	LV overhead line
	Pilot cable
	LV street lighting (pl)
	Service overhead line
	Service underground
	Logical service connection

## Secondary distribution cable terminology (1:500 view)

### HV underground

sta (no text)	PILCSTA (paper insulated lead covered steel tape armour)
XLPE	PILCSWA (paper insulated lead covered steel wire armour)
bcs	XLPE (cross linked polyethylene) insulation
scs	CAS (corrugated aluminium sheath) belted construction
ua	CAS (corrugated aluminium sheath) with screened cores
c/c	PILC (paper insulated lead covered) unarmoured
Poly	Concentric cores
BOTES	Poly (polyethylene) insulation
of	BOTES – Board of Trade earth screen
33 kV design	Oil filled
ax	Constructed to 33 kV specification
cx	Triplex with aluminium conductor
	Triplex with copper conductor

### HV overhead

(no text)	Bare open wire
pvc	Open wire PVC covered
cat	ABC (aerial bundled or bunched conductor) with supporting strain wire
+ew	Open wire with extra earth conductor
ccc	Compact covered conductor

### Overhead line materials

sca	Steel cored aluminium
cc	Cadmium copper
st	Steel
sil	Simalec
ccs	Copper covered steel
cpl	Compactal

section continued on next page

## Secondary distribution cable terminology continued (1:500 view)

### LV underground mains and services

W	Waveform
We	Waveform with separate earth wire
H	Hybrid – copper neutral with aluminium phase conductor
He	Hybrid with separate earth wire
ua	PILC (paper insulated lead covered) unarmoured
(no text)	PILC (paper insulated lead covered) with/without armour
XLPE	XLPE (cross linked polyethylene) insulation
DISTRI	PISTA (paper insulated steel tape armour) 4c SAC (solid aluminium core) with lead covered neutral
c/c	Concentric cores
s/c	Split concentric with separated neutral and earth wires
CONSAC	Paper insulated aluminium sheathed 3 core with solid aluminium cores
vb	Vulcanised bitumen/rubber insulation
Capothene	Capothene core insulation
tby	Tape braid and yarn
swa	PILSWA (paper insulated lead steel wire armour)
sac	PILSTA (paper insulated steel tape armour) solid aluminium core
Solidal	4 sector SAC with solid aluminium cores
LSF	Low smoke and fume (orange cable)
Trough	Cable laid in filled trough

### LV overhead mains and services

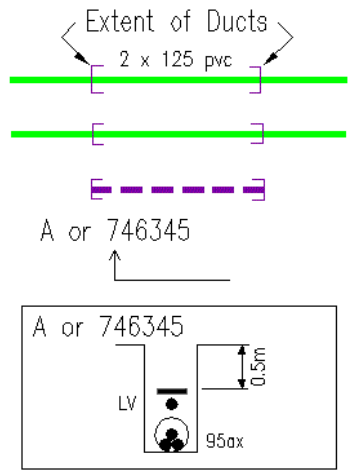
(no text)	Bare open wire
ABC	Aerial bundled (or bunched) conductor
cat	ABC (aerial bundled or bunched conductor) with supporting strain wire
pvc	PVC covered open wire
c/c	Concentric cores
H	Hybrid – copper neutral with aluminium phase conductor
ue	Under eaves – hessian covered lead cable
vir	Vulcanised India rubber insulation









section continued on next page













## Secondary distribution cable terminology continued (1:500 view)

Various annotation	
.1	Cable size (sq. inches)
185	Cable size (sq. millimetres)
a	Aluminium
ITC	Instrument traced cable or ITC - cable traced electronically using Cable Avoidance Tool (CAT) or similar








## Cable ducts (1:500 view)







NetMAP system	Description
	<p>Duct 2 way</p> <p>Duct 1 way (no text)</p> <p>Spare duct</p> <p>Cross section arrow</p> <p>Cross section showing: duct, tile depth, tile, single LV cable and HV Triplex cable</p>
Duct materials	
<p>(no text)</p> <p>pvc</p> <p>st</p> <p>asb</p> <p>fbr</p> <p>wi</p> <p>cp</p> <p>t/e</p>	<p>Earthenware</p> <p>PVC</p> <p>Steel</p> <p>Asbestos</p> <p>Fibre</p> <p>Iron</p> <p>Concrete pipe</p> <p>Trenchless excavation</p>

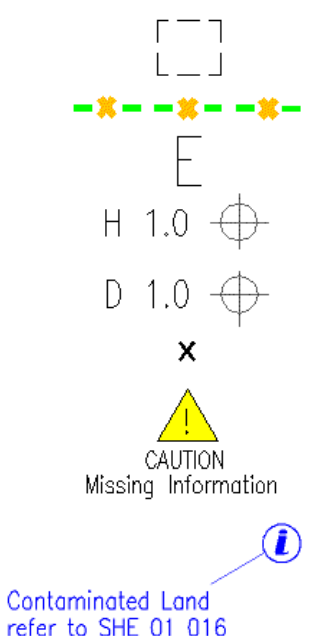
Poles (1:500 view)	
NetMAP system	Description
       	<p>Section pole Pole number (unique) Single leg</p> <p>H pole</p> <p>3 member</p> <p>4 member</p> <p>Strut</p> <p>Pole support (stay)</p> <p>Flying stay</p> <p>Tower 33kV to 400kV</p>

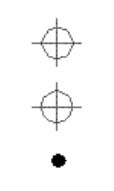
EHV, HV and LV sites (1:500 view)	
NetMAP system	Description
<p>Note: EHV and HV sites are identified by a unique 6 digit number (SPENS)</p>	
           	<p>Ground mounted primary substation showing name, transformer voltage and SPENS number</p> <p>Pole mounted substation showing name and SPENS number</p> <p>Ground mounted substation showing name and SPENS number</p> <p>2 way link box</p> <p>4 way link box</p> <p>Link box without busbar</p> <p>(options similar to 1:2500 view) LV distribution pillar</p> <p>Voltage regulator</p> <p>Voltage balancer</p> <p>Open point</p> <p>Open point – out of phase</p> <p>Overhead open point</p>
<p>Note: For LV linking, use the 1:2500 view</p>	



Joints (1:500 view)	
NetMAP system	Description
      	<p>Straight (same for HV)</p> <p>Pot end (same for HV)</p> <p>Branch (same for HV)</p> <p>Sleeve repair</p> <p>Capped end</p> <p>Service to LV main</p> <p>Under eaves service</p>
<div> <div>□</div> <div>.1 .15 □</div> <div>R – R</div> <div>Y – B</div> <div>B – Y</div> </div>	<p>Jointing phase drawing</p>

Street furniture (1:500 view)	
NetMAP system	Description
     TBS 	<p>Pole mounted street light</p> <p>Street light</p> <p>Zebra crossing</p> <p>Road sign</p> <p>Bollard</p> <p>Pelican crossing</p> <p>Traffic controller</p> <p>Advertising sign</p> <p>Amplifier station</p> <p>Control cubicle</p> <p><u>Text displayed/description</u></p> <p>Pay and display</p> <p>Bus shelter</p> <p>TBS</p> <p>Kiosk</p> <p>Water meter</p> <p>PL pillar</p> <p>TCB</p> <p>Unknown</p>

Miscellaneous (1:500 view)	
NetMAP system	Description
	<p>Underground chamber or draw pit</p> <p>Earth conductor</p> <p>Earth pin</p> <p>Height marker</p> <p>Depth marker</p> <p>Supply point</p> <p>Missing data in or near this location</p> <p>Contaminated land reference</p>

Connectivity (1:500 view)	
NetMAP system	Description
	<p>Edge node</p> <p>Node</p> <p>Connector</p> <p>Pole termination (nothing visible unless selected)</p>
<p>Edge nodes, nodes, connectors and pole termination joints may not appear on screen unless turned on and selected.</p>	

## Abbreviations (1:500 view)

NetMAP system	Description
NR	No record
SU	Size unknown
AB	Abandoned
(M)	PME available
VO5	Year LV linking verified
MS	Milestone
MP	Marker post
pmt	Pole mounted transformer
pl	Public lighting
TBS	Temporary builder's supply
TCB	Telephone call box
CET	Cable electronically traced
IT	Instrument traced (same as CET)
CAT	Cable avoidance tool (same as CET)
+sl	Street lighting
+sw	Switch wire
2c	2 core
PESL	Public Electricity Supply License
Added	Supplied by SPN
Excluded	Not supplied by SPN
IIP	Assumed open point
VSxxxx	Vacant site
CB	Callender box

## Cable phasing (1:500 view)

<u>Old core colours</u>	<u>Shown on map</u>	<u>New core colours</u>
Neutral	Neutral	Neutral
Red	R	L1
Yellow	Y	L2
Blue	B	L3

Note:- Scott is a different phasing system

### Operational status colours (1:500 view)




PROPOSAL ———— Symbols and cables appear in ORANGE  
OUT OF SERVICE ———— Cable and joints appear in BLACK  
ABANDONED ———— Cables and joints appear in GREY

### 1:2500 view - for UK Power Networks use only - boxed red






#### Notes

1. No underground HV cables are shown on the 1:2500 view
2. Poles and joint details are similar to the 1:500 view
3. For cable/line information refer to the 1:500 view










### Primary distribution line route (1:2500 view)

NetMAP system	Description
	275–400kV National Grid route
	132kV cable route
	33kV cable route

### Secondary distribution cables (1:2500 view)







NetMAP system	Description
	11kV overhead line
	6.6kV overhead line
	<6.6kV overhead line
	LV underground cable
	LV overhead line

## Primary and secondary sites (1:2500 view)

NetMAP system	Description
Note: EHV and HV sites are identified by a unique 6 digit number (SPENS)	
	Ground mounted substation showing capacity, phase, name and SPENS number
	Pole mounted substation showing capacity, phase, name and SPENS number
	Primary substation showing name and SPENS number (no site shown)
	2 way link box
	4 way link box
	Link box identifier
	4 way link box without busbar
	6 way link box without busbar
	8 way link box without busbar

section continued on next page

## Primary and secondary sites continued (1:2500 view)

NetMAP system	Description
	LV distribution pillar
	Voltage regulator
	Voltage balancer
	Open point
	Open point – out of phase
	Earth pin



### Switch types (1:2500 view)







NetMAP system	Description
ABSD	Air brake switch disconnecter
A/R	Auto recloser
A/S	Sectionaliser
FUSE	Fuse
S/D	Surge diverter
PF	Pathfinder
ASL	Automatic sectionalising links
PMR	Pole mounted recloser
PMS	Pole mounted sectionaliser
GVR	Gas vacuum recloser

### 1:10000 view - for UK Power Networks use only - boxed red


#### Notes

1. No EHV cables/overhead lines shown on 1:10000 view.
2. For congested areas print at 1:5000.
3. HV site used instead of branch joint on 1:10000 for connectivity purposes. The site is not displayed until it is selected.

## Secondary distribution cables (1:10000 view)

NetMAP system	Description
	11kV underground cable
	6.6kV underground cable
	<6.6kV underground cable
	11kV overhead line
	6.6kV overhead line
	<6.6kV overhead line

## Primary and secondary sites (1:10000 view)

NetMAP system	Description
Note: EHV and HV sites are identified by a unique 6 digit number (SPENS)	
<div style="border: 1px solid black; padding: 2px; display: inline-block;">SITE NAME 008590</div> 	Primary substation showing name and SPENS number
SITE NAME 521234	11kV ground mounted substation showing name and SPENS number
SITE NAME 524514	6.6kV ground mounted substation showing name and SPENS number
SITE NAME 523634	<6.6kV ground mounted substation showing name and SPENS number
SITE NAME pmt 527522	11kV pole mounted substation showing name and SPENS number
SITE NAME pmt 525743	6.6kV pole mounted substation showing name and SPENS number
SITE NAME pmt 526543	<6.6kV pole mounted substation showing name and SPENS number
SITE NAME 527238	Pole mounted switching substation showing name and SPENS number




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**

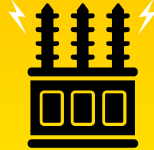
**Be Bright**

**Stay Safe**



**RUBBER BOOTS  
WILL NOT PROTECT YOU!**

**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)



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



**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**



# 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  
[www.linesearchbeforeudig.co.uk](http://www.linesearchbeforeudig.co.uk)  
or [www.ukpowernetworks.co.uk](http://www.ukpowernetworks.co.uk)**

 **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!

#bebrightstaysafe



@UKPowerNetworks



/ukpowernetworks

National power cut helpline


**POWER CUT?  
CALL 105**

Or call us  
24 hours a day on  
**0800 31 63 105**

For safety advice about overhead power lines,  
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If you are unsure who your network  
operator is then please visit  
[www.energynetworks.org](http://www.energynetworks.org)

 what3words



Scan the QR code on your  
phone to get the app

To report broken or damaged  
electrical equipment or in an  
emergency call 0800 31 63 105 or  
105 and use what3words to help us  
locate you faster.



**UK  
Power  
Networks**  
Delivering your electricity