

Our Ref: 29316491 Your Ref: LM 203277/SaP

Thursday, 27 April 2023

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

Dear Ben Evans

SSEN Distribution - Asset Network Plans

We have sent you the plans of our network records within the area requested. You will shortly receive responses each of the following; any High Voltage Mains cables and Low Voltage Mains cables.

Attached to this email is the 'Guide to Interpreting' which includes the legends for the plans on pages 7-9.

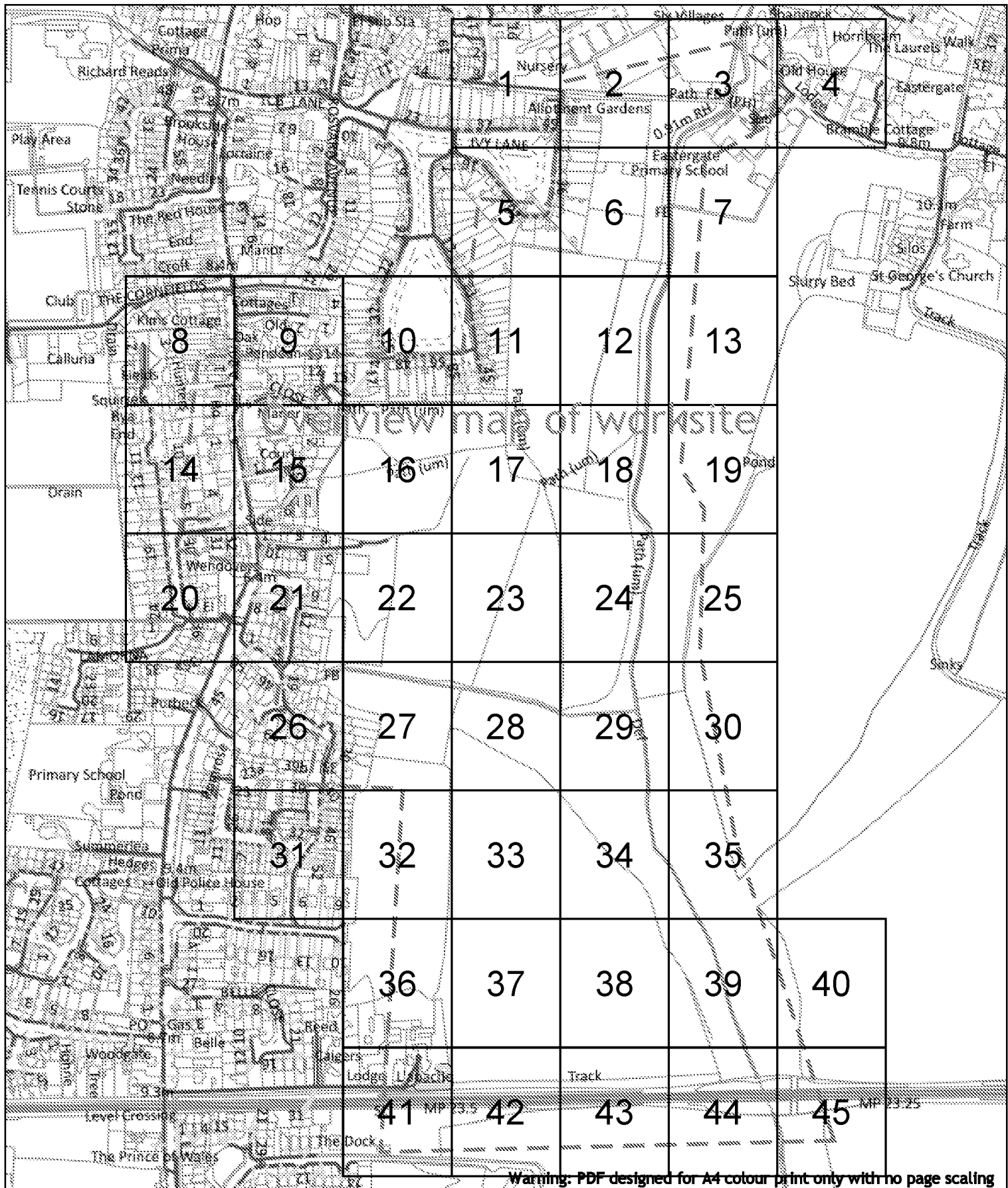
If a Service Cable is not shown on our maps sent, and you require the Cable to be Traced, please contact the General Enquiries Department on [REDACTED] (option 3) or via email, [REDACTED]

If you need further information on our network in this area or a quotation for any required works, please contact the Connections & Engineering Department on 0800 048 3516 or via email, connections@sse.com

Kind Regards,

Asset Data Team

[REDACTED]



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Dig Sites Area: Line:

Date Requested: 27/04/2023
Job Reference: 29316491
Site Location: 494090 104774
Requested by: Mr Ben Evans

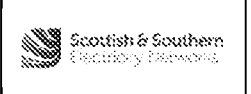
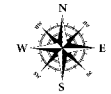
Your Scheme/Reference: LM
203277/SaP

Scale: 1:4613 (When plotted at A4)

Voltages (V)			
LV (Low Voltage) and Services	Up to 1,000V		
HV (High Voltage)	Over 1,000V to 11,000V		
EHV (Extra High Voltage)	22,000V to 132,000V		
Transmission	275,000V and 400,000V		
NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID			
Services	LV	HV	EHV
Footpath/unmade	0.45m	0.45m	0.6m
Road Crossing	0.6m	0.6m	0.75m
Agricultural	1m	1m	1.1m

Legend	Distribution Structures (Excluded)
..... Reduced Cable	⊗ Pole location
..... 25.0kV	⊗ Pole location - 100kV/132kV/175kV/220kV
..... 110kV	⊗ Pole location - 100kV/132kV/175kV/220kV
..... 132kV	⊗ Pole location - 100kV/132kV/175kV/220kV
..... 175kV	⊗ Pole location - 100kV/132kV/175kV/220kV
..... 220kV	⊗ Pole location - 100kV/132kV/175kV/220kV
..... 275kV	⊗ Pole location - 100kV/132kV/175kV/220kV
..... 400kV	⊗ Pole location - 100kV/132kV/175kV/220kV
..... 500kV	⊗ Pole location - 100kV/132kV/175kV/220kV
..... 765kV	⊗ Pole location - 100kV/132kV/175kV/220kV

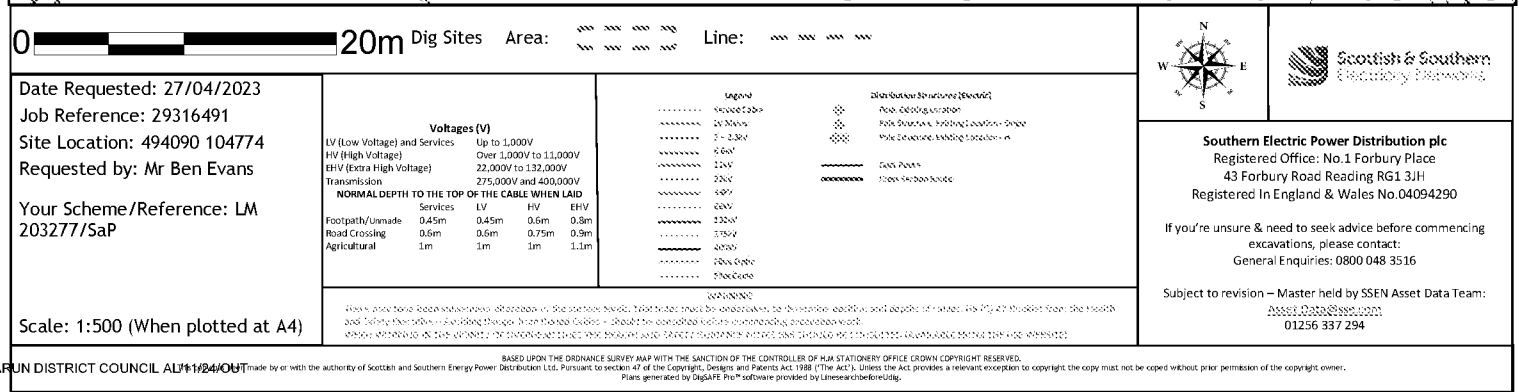
NOTES:
1. All work should be carried out in accordance with the relevant standards and specifications.
2. The depth to the top of the cable should be ascertained by the relevant authority.
3. The depth to the top of the cable should be ascertained by the relevant authority.
4. The depth to the top of the cable should be ascertained by the relevant authority.

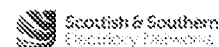


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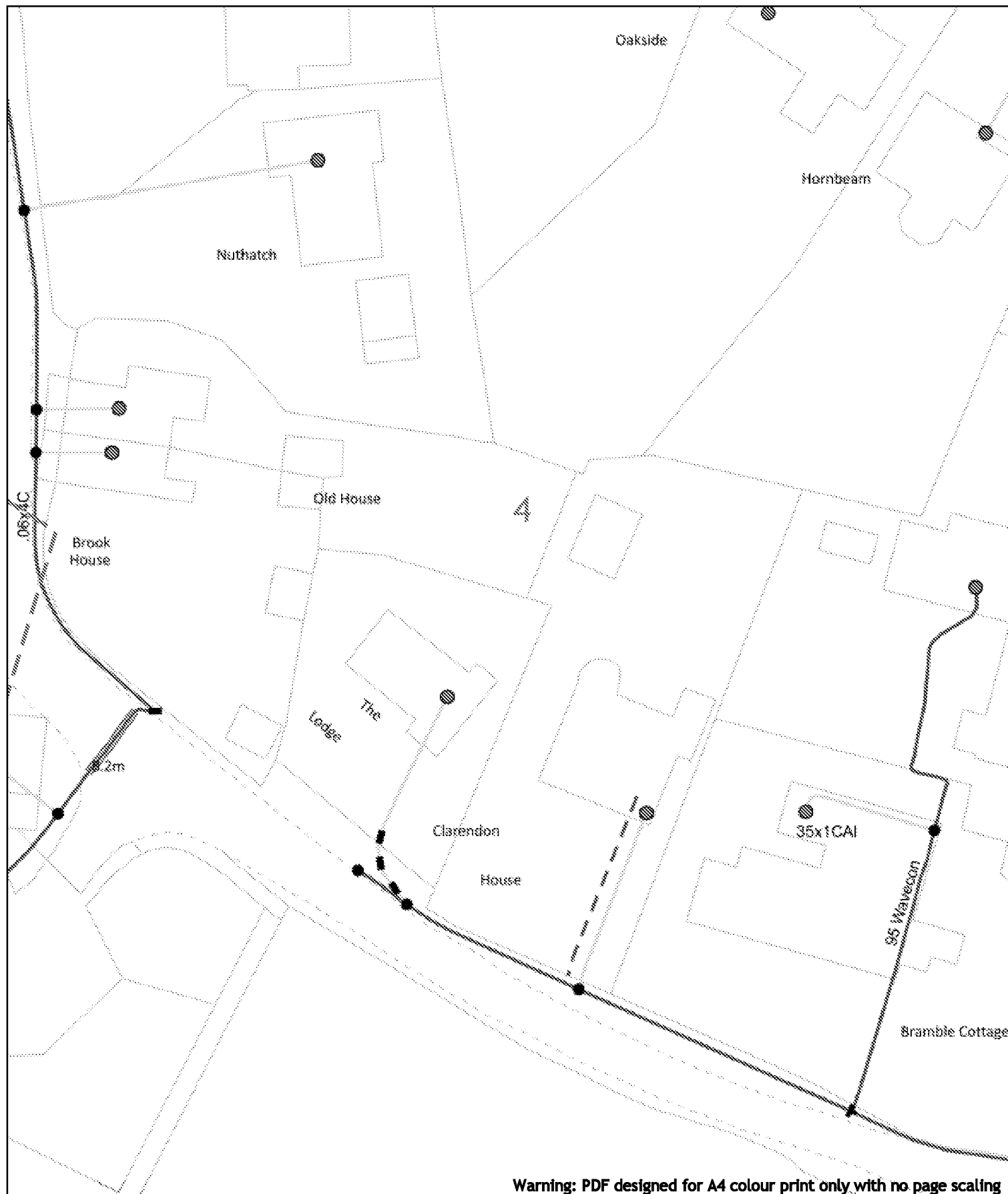




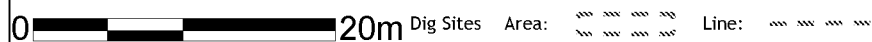
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Date Requested: 27/04/2023

Job Reference: 29316491

Site Location: 494090 104774

Requested by: Mr Ben Evans

Your Scheme/Reference: LM
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020m

Dig Sites

Area:

Line:

Date Requested: 27/04/2023

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Site Location: 494090 104774

Requested by: Mr Ben Evans

Your Scheme/Reference: LM 203277/SaP

Voltages (V)				
LV (Low Voltage) and Services	Up to 1,000V			
HV (High Voltage)	Over 1,000V to 11,000V			
EHV (Extra High Voltage)	22,000V to 132,000V			
Transmission	275,000V and 400,000V			
NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
Services	LV	HV	EHV	
Footpath/unmade	0.45m	0.45m	0.6m	0.8m
Road Crossing	0.6m	0.6m	0.75m	0.9m
Agricultural	1m	1m	1m	1.1m

LEGEND

Proposed Cable

25 Mains

11-13.2kV

11kV

22kV

66kV

132kV

275kV

400kV

Distribution Structures (Electric)

Pole-Setting Location

Pole Structure, Polehead Location, Splice

Pole Structure, Polehead Location, Splice

25kV Cable

110kV Cable

North Arrow

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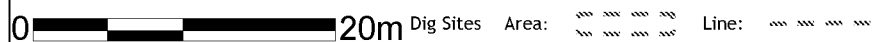
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Transmission	275,000V and 400,000V			
NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
	Services	LV	HV	EHV
Footpath/Unmade	0.45m	0.45m	0.6m	0.8m
Road Crossing	0.6m	0.6m	0.75m	0.9m
Agricultural	1m	1m	1m	1.1m

	ungrad
.....	999999999
~~~~~	100000000
.....	1 - 2.36e
~~~~~	8.64e
~~~~~	12eV
~~~~~	22eV
~~~~~	60eV
.....	60eV
~~~~~	132eV
.....	375eV
~~~~~	407eV
.....	1000 eVph
.....	5000 eVph

**Distribution Structures (Electric)**  
 New, Existing Location  
 Pole Structure, Existing Location - Single  
 Pole Structure, Existing Location - 48  
 • Gas Poles  
 • Street Carbon Solder

~~~~~

When installing backwash valves, observe the the station head. First water must be introduced to the valve each 60" soil depth of water. At 17' 27" from the head and below thereafter, including those from three (3) to 5' should be considered when determining pressure work.

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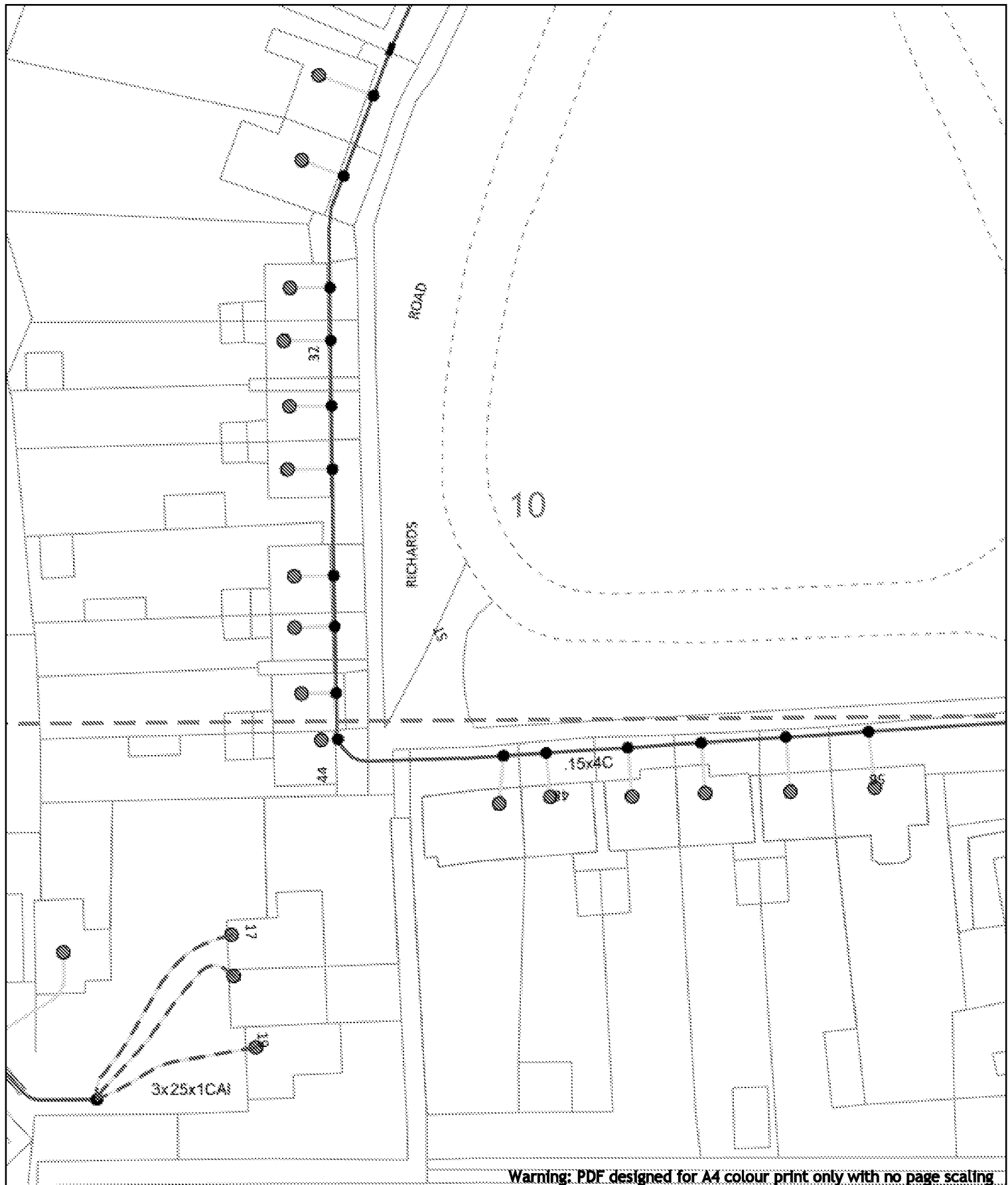
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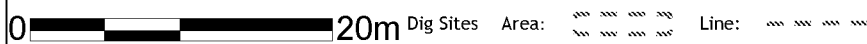
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Site Location: 494090 104774

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| Voltages (V) | | | | |
|---|------------------------|-------|-------|------|
| LV (Low Voltage) and Services | Up to 1,000V | | | |
| HV (High Voltage) | Over 1,000V to 11,000V | | | |
| EHV (Extra High Voltage) | 22,000V to 132,000V | | | |
| Transmission | 275,000V and 400,000V | | | |
| NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID | | | | |
| | Services | LV | HV | EHV |
| Footpath/Unmade | 0.45m | 0.45m | 0.6m | 0.8m |
| Road Crossing | 0.6m | 0.6m | 0.75m | 0.9m |
| Agricultural | 1m | 1m | 1m | 1.1m |

| | |
|-------|-----------|
| | ungrad |
| ..... | 999999999 |
| ~~~~~ | 100000000 |
| ..... | 1 - 2.36e |
| ~~~~~ | 8.64e |
| ~~~~~ | 12eV |
| ~~~~~ | 22eV |
| ~~~~~ | 60eV |
| ..... | 60eV |
| ~~~~~ | 132eV |
| ..... | 375eV |
| ~~~~~ | 407eV |
| ..... | 1000 eVph |
| ..... | 5000 eVph |

Distribution Statement (Required)

File Location: Exhibits Location: - 0

- **Geography**
- **Mass Communication**

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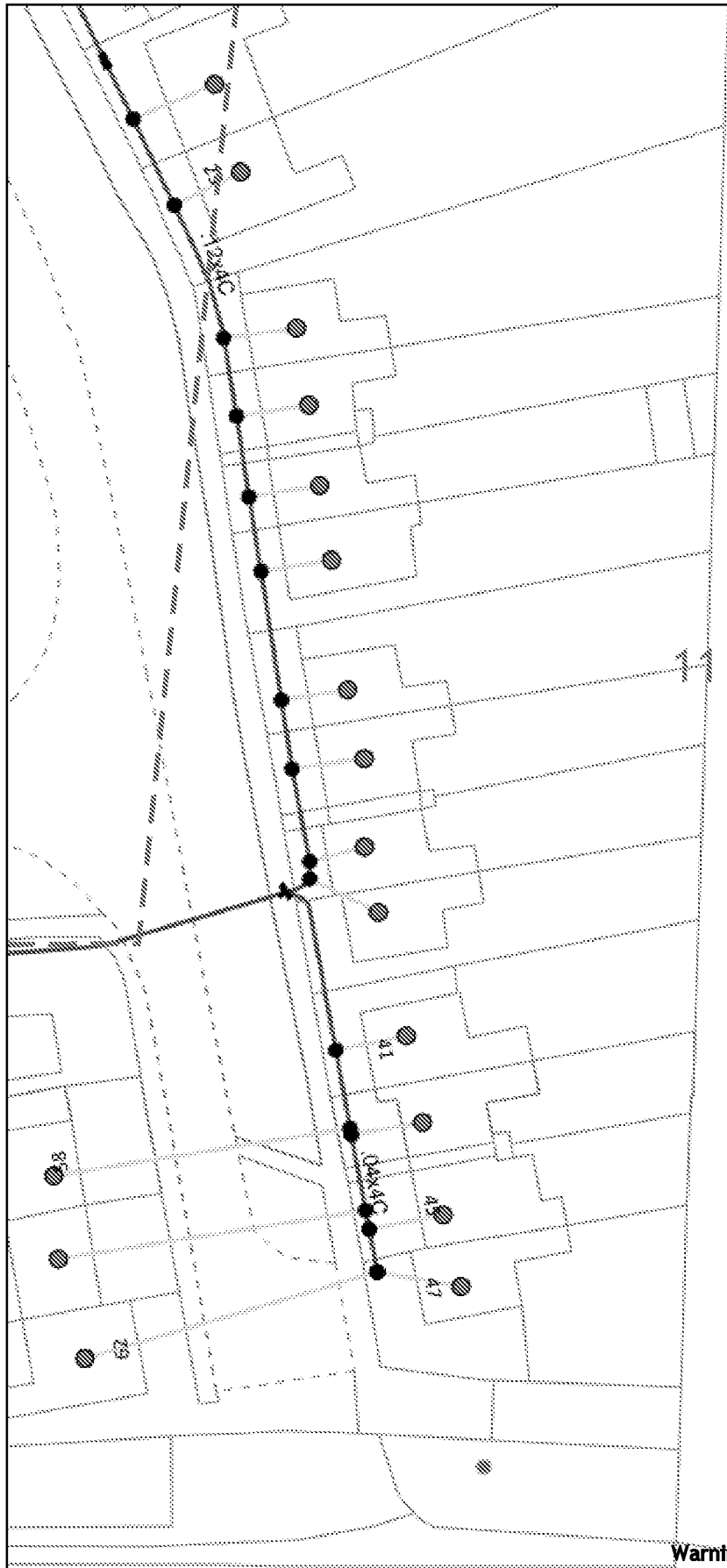
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| Voltages (V) | | | |
|--|------------------------|-------|-------|
| LV (Low Voltage) and Services | Up to 1,000V | | |
| HV (High Voltage) | Over 1,000V to 11,000V | | |
| EHV (Extra High Voltage) | 22,000V to 132,000V | | |
| Transmission | 275,000V and 400,000V | | |
| NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID | | | |
| Services | LV | HV | EHV |
| Footpath/Unmade | 0.45m | 0.45m | 0.6m |
| Road Crossing | 0.6m | 0.6m | 0.75m |
| Agricultural | 1m | 1m | 1.1m |

| Legend | |
|--------|---------------|
| ..... | Service Cable |
| ..... | 20 Mains |
| ..... | 2-230V |
| ..... | 66kV |
| ..... | 11kV |
| ..... | 22kV |
| ..... | 66kV |
| ..... | 132kV |
| ..... | 275kV |
| ..... | 400kV |
| ..... | 250kV Cable |
| ..... | 500kV Cable |

| Distribution Structures (Electrical) | |
|--------------------------------------|-----------------------------------|
| | Pole - existing location |
| | Pole - proposed location - single |
| | Pole - proposed location - double |



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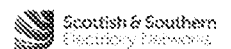
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0 20m Dig Sites Area: Line:



| Voltages (V) | | | | |
|---|------------------------|-------|-------|------|
| LV (Low Voltage) and Services | Up to 1,000V | | | |
| HV (High Voltage) | Over 1,000V to 11,000V | | | |
| EHV (Extra High Voltage) | 22,000V to 132,000V | | | |
| Transmission | 275,000V and 400,000V | | | |
| NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID | | | | |
| | Services | LV | HV | EHV |
| Footpath/Unmade | 0.45m | 0.45m | 0.6m | 0.7m |
| Road Crossing | 0.6m | 0.6m | 0.75m | 0.7m |
| Agricultural | 1m | 1m | 1m | 1.1m |

| | Services | LV | HV | EHV |
|-----------------|----------|-------|-------|-------|
| Footpath/Unmade | 0.45m | 0.45m | 0.6m | 0.75m |
| Road Crossing | 0.6m | 0.6m | 0.75m | 0.9m |
| Agricultural | 1m | 1m | 1m | 1.2m |

[illegible]

References

When preparing the assessment information, the student body of that state must be understood, to determine each's size and depth of interest. In 1971, at Boulder from the north and safety therein – finding things from these cities – should be considered before mentioning assessment work.

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Scale: 1:500 (When plotted at A4)

| Voltages (V) | | | |
|--|-------|-------|-------|
| LV (Low Voltage) and Services | | | |
| Up to 1,000V | | | |
| HV (High Voltage) | | | |
| Over 1,000V to 11,000V | | | |
| EHV (Extra High Voltage) | | | |
| 22,000V to 132,000V | | | |
| Transmission | | | |
| 275,000V and 400,000V | | | |
| NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID | | | |
| Services | LV | HV | EHV |
| Footpath/unmade | 0.45m | 0.45m | 0.6m |
| Road Crossing | 0.6m | 0.6m | 0.75m |
| Agricultural | 1m | 1m | 1.1m |

Legend
..... Service Cable
..... 25 Mains
..... 2-230V
..... 66kV
..... 11kV
..... 22kV
..... 66kV
..... 132kV
..... 275kV
..... 400kV
..... 500kV
..... 750kV

Distribution Structures (Electrical)
Non-energised location
Risks associated with energised location
Main Distribution Structure
Gas Point
1200V 14/200V 20/200V

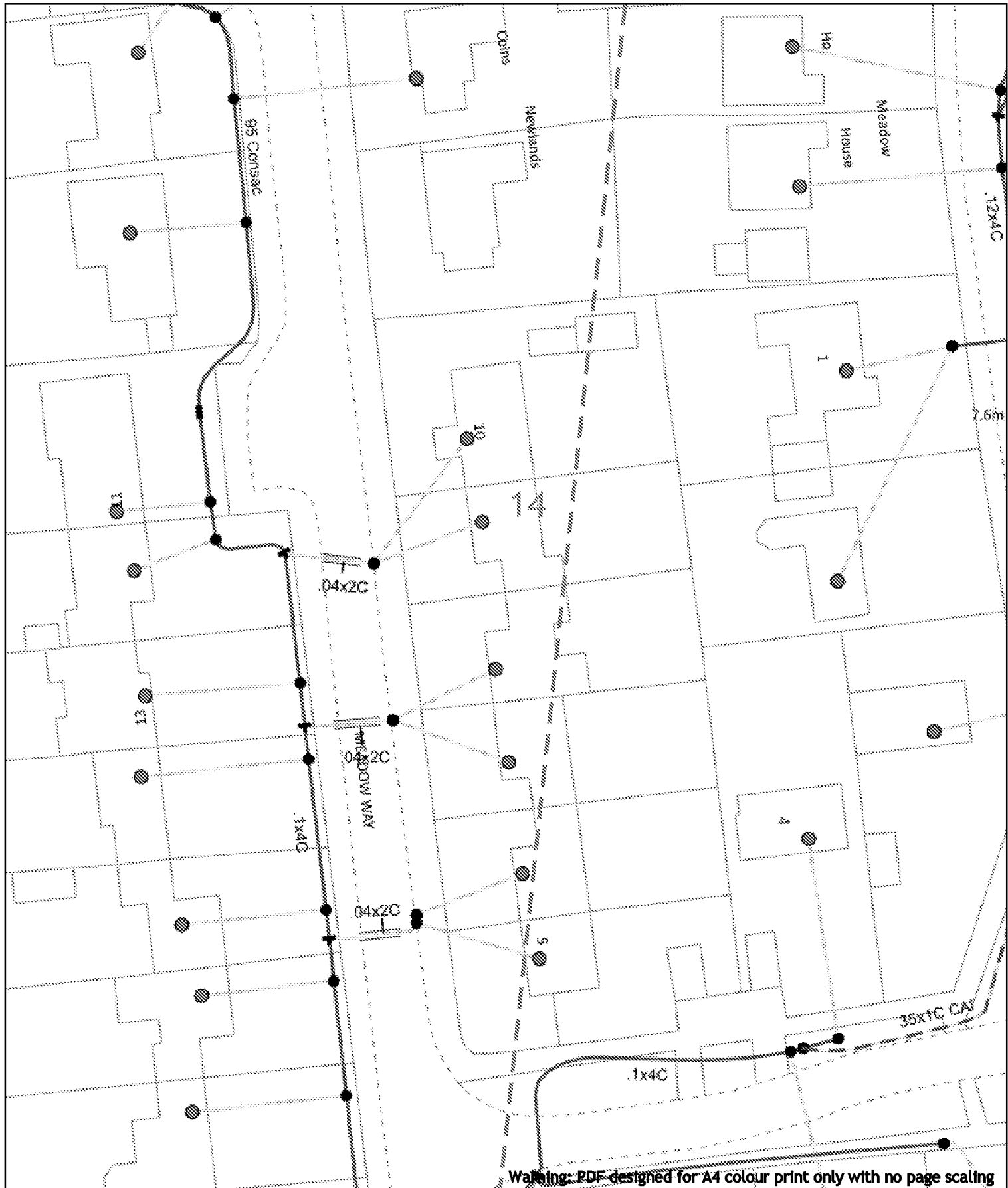


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| NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID | | | | |
| Services | LV | HV | EHV | |
| Footpath/unmade | 0.45m | 0.45m | 0.6m | 0.8m |
| Road Crossing | 0.6m | 0.6m | 0.75m | 0.9m |
| Agricultural | 1m | 1m | 1m | 1.1m |

| Legend | |
|--------|---------------|
| | Service Cable |
| | 20 Mins |
| | 2 - 230V |
| | 12kV |
| | 25kV |
| | 60kV |
| | 132kV |
| | 275kV |
| | 400kV |
| | 250kV Cable |
| | 500kV Cable |

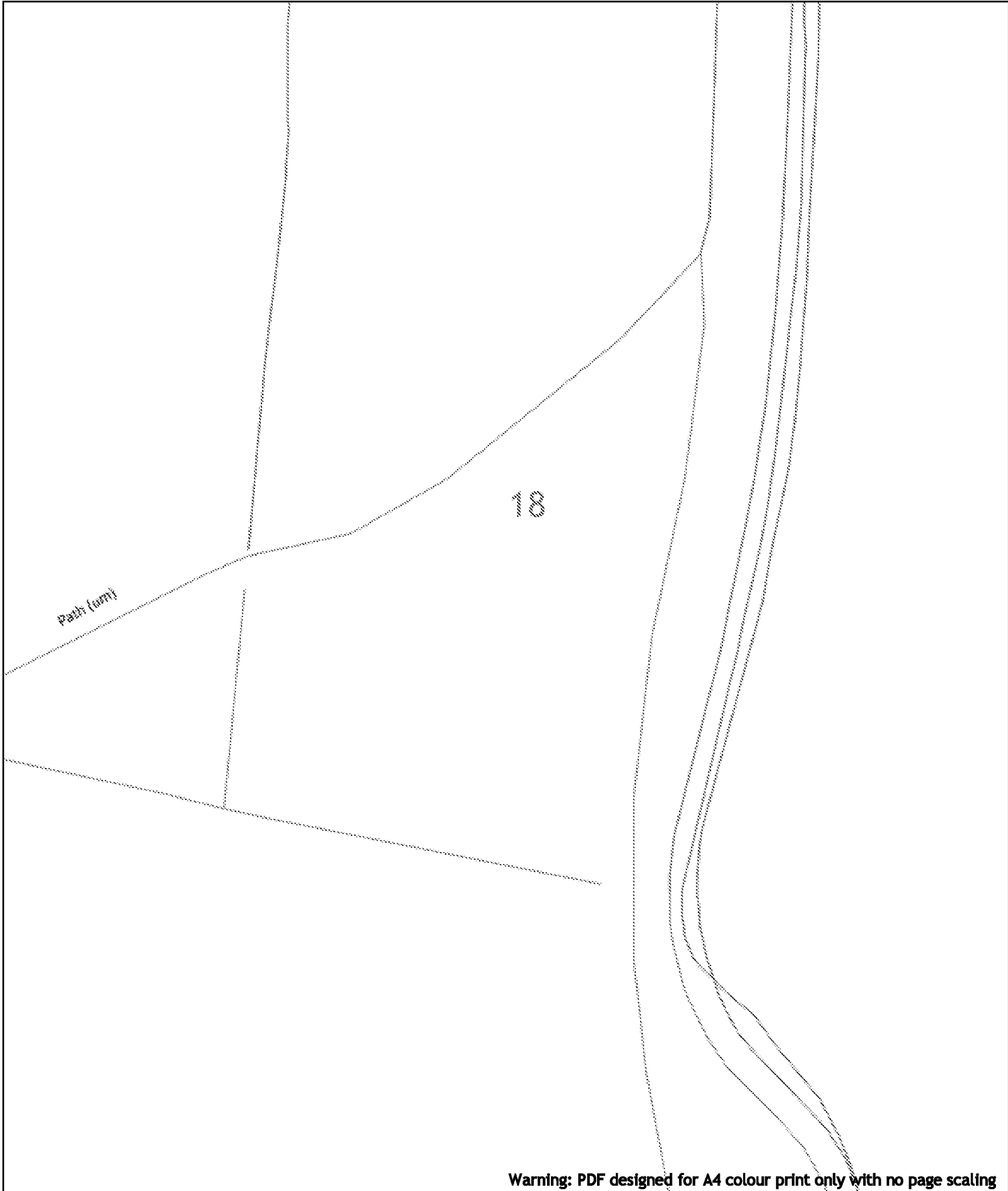
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Dig Sites

Area:

Line:

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| Road Crossing | 0.6m | 0.6m | 0.75m | 0.9m |
| Agricultural | 1m | 1m | 1m | 1.1m |

LEGEND

Proposed Cable

Existing Cable

25-230V

66kV

11kV

22kV

66kV

132kV

275kV

400kV

132kV Cable

275kV Cable

400kV Cable

Distribution Structure (Electric)

Pole-erecting location

Pole structure, including location of pole

Pole structure, including location of pole

25-230V

66kV

11kV

22kV

66kV

132kV

275kV

400kV

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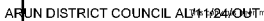
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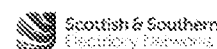
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22

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0 20m Dig Sites Area: Line:

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Job Reference: 29316491

Site Location: 494090 104774

Requested by: Mr Ben Evans

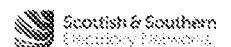
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Scale: 1:500 (When plotted at A4)

| Voltages (V) | | | | |
|--|------------------------|-------|-------|-------|
| LV (Low Voltage) and Services | Up to 1,000V | | | |
| HV (High Voltage) | Over 1,000V to 11,000V | | | |
| EHV (Extra High Voltage) | 22,000V to 132,000V | | | |
| Transmission | 275,000V and 400,000V | | | |
| NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID | | | | |
| | Services | LV | HV | EHV |
| Footpath/Unmade | 0.45m | 0.45m | 0.6m | 0.75m |
| Road Crossing | 0.6m | 0.6m | 0.75m | 0.75m |
| Agricultural | 1m | 1m | 1m | 1.1m |

| Legend | |
|--------|---------------|
| ..... | Service Cable |
| ..... | 20 Mains |
| ..... | 2" - 30kV |
| ..... | 16kV |
| ..... | 11kV |
| ..... | 22kV |
| ..... | 66kV |
| ..... | 132kV |
| ..... | 275kV |
| ..... | 400kV |
| ..... | 500kV |
| ..... | 750kV |

| Distribution Structures (Electrical) | |
|--------------------------------------|---------------------------------------|
| ..... | Pole - existing location |
| ..... | Pole - proposed location - single |
| ..... | Pole - proposed location - double |
| ..... | Pole - proposed location - triple |
| ..... | Pole - proposed location - quadruple |
| ..... | Pole - proposed location - pentuple |
| ..... | Pole - proposed location - hexuple |
| ..... | Pole - proposed location - heptuple |
| ..... | Pole - proposed location - octuple |
| ..... | Pole - proposed location - nonuple |
| ..... | Pole - proposed location - decuple |
| ..... | Pole - proposed location - undecuple |
| ..... | Pole - proposed location - duodecuple |



Southern Electric Power Distribution plc
Registered Office: No.1 Forbury Place
43 Forbury Road Reading RG1 3JH
Registered In England & Wales No.04094290

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General Enquiries: 0800 048 3516

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01256 337 294

23

0 20m Dig Sites Area: Line:

 Scottish & Southern
Electricity Networks

Scale: 1:500 (When plotted at A4)

| Voltages [V] | | | | |
|---|------------------------|-------|-------|------|
| LV (Low Voltage) and Services | Up to 1,000V | | | |
| HV (High Voltage) | Over 1,000V to 11,000V | | | |
| EHV (Extra High Voltage) | 22,000V to 132,000V | | | |
| Transmission | 275,000V and 400,000V | | | |
| NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID | | | | |
| | Services | LV | HV | EHV |
| Footpath/Unmade | 0.45m | 0.45m | 0.6m | 0.7m |
| Road Crossing | 0.6m | 0.6m | 0.75m | 0.7m |
| Agricultural | 1m | 1m | 1m | 1.1m |

| Legend | Distribution for survey [Survey] |
|--------|----------------------------------|
| ..... | Age 16-19 (16-19) |
| ..... | Age 20-29 (20-29) |
| ..... | Age 30-39 (30-39) |
| ..... | Age 40-49 (40-49) |
| ..... | Age 50-59 (50-59) |
| ..... | Age 60-69 (60-69) |
| ..... | Age 70-79 (70-79) |
| ..... | Age 80-89 (80-89) |
| ..... | Age 90-99 (90-99) |
| ..... | Age 100-109 (100-109) |
| ..... | Age 110-119 (110-119) |
| ..... | Age 120-129 (120-129) |
| ..... | Age 130-139 (130-139) |
| ..... | Age 140-149 (140-149) |
| ..... | Age 150-159 (150-159) |
| ..... | Age 160-169 (160-169) |
| ..... | Age 170-179 (170-179) |
| ..... | Age 180-189 (180-189) |
| ..... | Age 190-199 (190-199) |
| ..... | Age 200-209 (200-209) |
| ..... | Age 210-219 (210-219) |
| ..... | Age 220-229 (220-229) |
| ..... | Age 230-239 (230-239) |
| ..... | Age 240-249 (240-249) |
| ..... | Age 250-259 (250-259) |
| ..... | Age 260-269 (260-269) |
| ..... | Age 270-279 (270-279) |
| ..... | Age 280-289 (280-289) |
| ..... | Age 290-299 (290-299) |
| ..... | Age 300-309 (300-309) |
| ..... | Age 310-319 (310-319) |
| ..... | Age 320-329 (320-329) |
| ..... | Age 330-339 (330-339) |
| ..... | Age 340-349 (340-349) |
| ..... | Age 350-359 (350-359) |
| ..... | Age 360-369 (360-369) |
| ..... | Age 370-379 (370-379) |
| ..... | Age 380-389 (380-389) |
| ..... | Age 390-399 (390-399) |
| ..... | Age 400-409 (400-409) |
| ..... | Age 410-419 (410-419) |
| ..... | Age 420-429 (420-429) |
| ..... | Age 430-439 (430-439) |
| ..... | Age 440-449 (440-449) |
| ..... | Age 450-459 (450-459) |
| ..... | Age 460-469 (460-469) |
| ..... | Age 470-479 (470-479) |
| ..... | Age 480-489 (480-489) |
| ..... | Age 490-499 (490-499) |
| ..... | Age 500-509 (500-509) |
| ..... | Age 510-519 (510-519) |
| ..... | Age 520-529 (520-529) |
| ..... | Age 530-539 (530-539) |
| ..... | Age 540-549 (540-549) |
| ..... | Age 550-559 (550-559) |
| ..... | Age 560-569 (560-569) |
| ..... | Age 570-579 (570-579) |
| ..... | Age 580-589 (580-589) |
| ..... | Age 590-599 (590-599) |
| ..... | Age 600-609 (600-609) |
| ..... | Age 610-619 (610-619) |
| ..... | Age 620-629 (620-629) |
| ..... | Age 630-639 (630-639) |
| ..... | Age 640-649 (640-649) |
| ..... | Age 650-659 (650-659) |
| ..... | Age 660-669 (660-669) |
| ..... | Age 670-679 (670-679) |
| ..... | Age 680-689 (680-689) |
| ..... | Age 690-699 (690-699) |
| ..... | Age 700-709 (700-709) |
| ..... | Age 710-719 (710-719) |
| ..... | Age 720-729 (720-729) |
| ..... | Age 730-739 (730-739) |
| ..... | Age 740-749 (740-749) |
| ..... | Age 750-759 (750-759) |
| ..... | Age 760-769 (760-769) |
| ..... | Age 770-779 (770-779) |
| ..... | Age 780-789 (780-789) |
| ..... | Age 790-799 (790-799) |
| ..... | Age 800-809 (800-809) |
| ..... | Age 810-819 (810-819) |
| ..... | Age 820-829 (820-829) |
| ..... | Age 830-839 (830-839) |
| ..... | Age 840-849 (840-849) |
| ..... | Age 850-859 (850-859) |
| ..... | Age 860-869 (860-869) |
| ..... | Age 870-879 (870-879) |
| ..... | Age 880-889 (880-889) |
| ..... | Age 890-899 (890-899) |
| ..... | Age 900-909 (900-909) |
| ..... | Age 910-919 (910-919) |
| ..... | Age 920-929 (920-929) |
| ..... | Age 930-939 (930-939) |
| ..... | Age 940-949 (940-949) |
| ..... | Age 950-959 (950-959) |
| ..... | Age 960-969 (960-969) |
| ..... | Age 970-979 (970-979) |
| ..... | Age 980-989 (980-989) |
| ..... | Age 990-999 (990-999) |
| ..... | Age 1000-1009 (1000-1009) |
| ..... | Age 1010-1019 (1010-1019) |
| ..... | Age 1020-1029 (1020-1029) |
| ..... | Age 1030-1039 (1030-1039) |
| ..... | Age 1040-1049 (1040-1049) |
| ..... | Age 1050-1059 (1050-1059) |
| ..... | Age 1060-1069 (1060-1069) |
| ..... | Age 1070-1079 (1070-1079) |
| ..... | Age 1080-1089 (1080-1089) |
| ..... | Age 1090-1099 (1090-1099) |
| ..... | Age 1100 |

There are two basic maintenance objectives in the station ponds. First, water must be undertaken to determine width and depth of water. It is 1/2" thick from the inside and safety therein - avoiding things from being pulled - should be considered before commencing maintenance work.

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 01256 337 294

24

Path (un)

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0 20m Dig Sites Area: Line:

Date Requested: 27/04/2023
Job Reference: 29316491
Site Location: 494090 104774
Requested by: Mr Ben Evans

Your Scheme/Reference: LM
203277/SaP

Scale: 1:500 (When plotted at A4)

| Voltages (V) | | | | |
|--|------------------------|-------|-------|-------|
| LV (Low Voltage) and Services | Up to 1,000V | | | |
| HV (High Voltage) | Over 1,000V to 11,000V | | | |
| EHV (Extra High Voltage) | 22,000V to 132,000V | | | |
| Transmission | 275,000V and 400,000V | | | |
| NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID | | | | |
| | Services | LV | HV | EHV |
| Footpath/Unmade | 0.45m | 0.45m | 0.6m | 0.75m |
| Road Crossing | 0.6m | 0.6m | 0.75m | 0.75m |
| Agricultural | 1m | 1m | 1m | 1.1m |

| Legend | |
|--------|---------------|
| ..... | Service Cable |
| ..... | 20 Mains |
| ..... | 2-230V |
| ..... | 66V |
| ..... | 11kV |
| ..... | 22kV |
| ..... | 66kV |
| ..... | 132kV |
| ..... | 275kV |
| ..... | 400kV |
| ..... | 500kV |
| ..... | 750kV |

| Distribution Structures (Electrical) | |
|--------------------------------------|--|
| ..... | Pole-erecting location |
| ..... | Pole structure, including location of pole |
| ..... | Pole structure, including location of pole |

..... 1000V 1000V 1000V

NOTES

1. All work shall be carried out in accordance with the relevant standards and specifications of the relevant authority. The depth of the cable shall be as indicated in the relevant standard. The depth of the cable shall be as indicated in the relevant standard. The depth of the cable shall be as indicated in the relevant standard.

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Scottish & Southern
Electricity Networks

Southern Electric Power Distribution plc
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Registered In England & Wales No.04094290

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0 20m Dig Sites Area: Line:

Date Requested: 27/04/2023
Job Reference: 29316491
Site Location: 494090 104774
Requested by: Mr Ben Evans

Your Scheme/Reference: LM
203277/SaP

Scale: 1:500 (When plotted at A4)

| Voltages (V) | | | |
|--|------------------------|-------|-------|
| LV (Low Voltage) and Services | Up to 1,000V | | |
| HV (High Voltage) | Over 1,000V to 11,000V | | |
| EHV (Extra High Voltage) | 22,000V to 132,000V | | |
| Transmission | 275,000V and 400,000V | | |
| NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID | | | |
| Services | LV | HV | EHV |
| Footpath/Unmade | 0.45m | 0.45m | 0.6m |
| Road Crossing | 0.6m | 0.6m | 0.75m |
| Agricultural | 1m | 1m | 1.1m |

| Legend | |
|--------|---------------|
| ..... | Service Cable |
| ..... | 20 Mains |
| ..... | 2-230V |
| ..... | 66kV |
| ..... | 11kV |
| ..... | 22kV |
| ..... | 66kV |
| ..... | 132kV |
| ..... | 275kV |
| ..... | 400kV |
| ..... | 250kV Cable |
| ..... | 500kV Cable |

| Distribution Structures (Electrical) | |
|--------------------------------------|-----------------------------------|
| ..... | Pole - existing location |
| ..... | Pole - proposed location - single |
| ..... | Pole - proposed location - double |

..... 200kV 110kV 66kV 33kV 22kV 11kV 6.6kV 3.3kV 2.2kV 1.1kV 0.6kV 0.45kV

NOTES

1. All work shall be carried out in accordance with the relevant standards and specifications. The depth of the cable shall be as indicated on the drawing and shall be maintained throughout the life of the cable. The depth of the cable shall be as indicated on the drawing and shall be maintained throughout the life of the cable.

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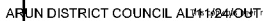


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27

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0  20m Dig Sites Area:     Line:       Scottish & Southern

| Voltages (V) | | | | |
|---|------------------------|-------|-------|------|
| LV (Low Voltage) and Services | Up to 1,000V | | | |
| HV (High Voltage) | Over 1,000V to 11,000V | | | |
| EHV (Extra High Voltage) | 22,000V to 132,000V | | | |
| Transmission | 275,000V and 400,000V | | | |
| NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID | | | | |
| | Services | LV | HV | EHV |
| Footpath/Unmade | 0.45m | 0.45m | 0.6m | 0.8m |
| Road Crossing | 0.6m | 0.6m | 0.75m | 0.9m |
| Agricultural | 1m | 1m | 1m | 1.1m |

Note: The above recommendations are given as a guide only. The designer should take into account the local conditions and the requirements of the relevant standards and codes of practice.

[illegible]

28

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0 20m Dig Sites Area: Line:

Date Requested: 27/04/2023
Job Reference: 29316491
Site Location: 494090 104774
Requested by: Mr Ben Evans

Your Scheme/Reference: LM
203277/SaP

Scale: 1:500 (When plotted at A4)

| Voltages (V) | | | |
|--|------------------------|-------|-------|
| LV (Low Voltage) and Services | Up to 1,000V | | |
| HV (High Voltage) | Over 1,000V to 11,000V | | |
| EHV (Extra High Voltage) | 22,000V to 132,000V | | |
| Transmission | 275,000V and 400,000V | | |
| NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID | | | |
| Services | LV | HV | EHV |
| Footpath/Unmade | 0.45m | 0.45m | 0.6m |
| Road Crossing | 0.6m | 0.6m | 0.75m |
| Agricultural | 1m | 1m | 1.1m |

Legend
..... Service Cable
..... 25 Mains
..... 2 - 230V
..... 66kV
..... 11kV
..... 22kV
..... 66kV
..... 132kV
..... 275kV
..... 400kV
..... 500kV
..... 500kV

Distribution Structures (Electrical)
Non-energised location
Risks (overhead, underground, buried)
Main Distribution Network (overhead)
Gas Poles
1000V 14/200V 20/200V



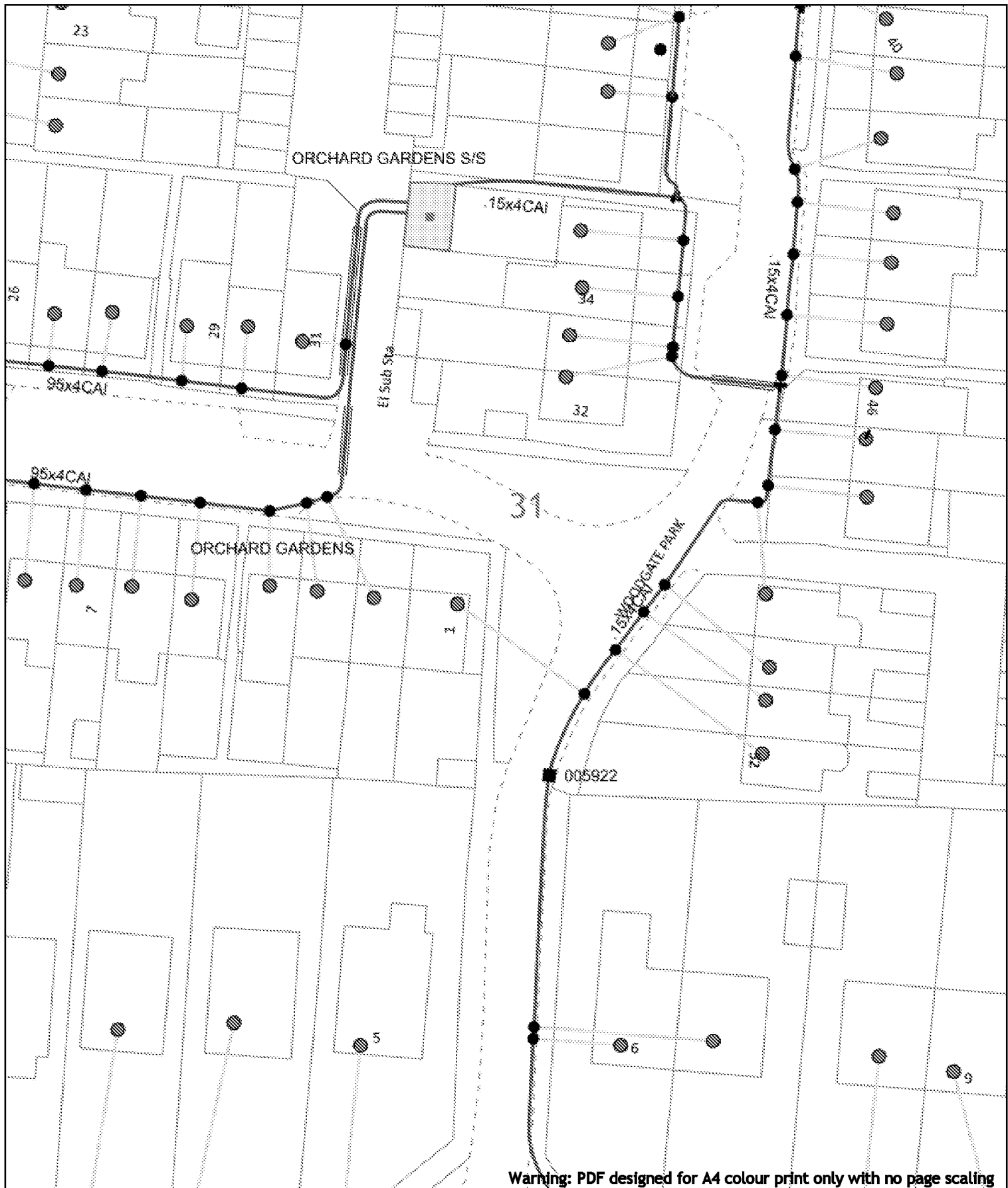
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0 20m

Dig Sites Area: Line:

Date Requested: 27/04/2023
 Job Reference: 29316491
 Site Location: 494090 104774
 Requested by: Mr Ben Evans
 Your Scheme/Reference: LM
 203277/SaP

| Voltages (V) | | | | |
|---|------------------------|-------|-------|------|
| LV (Low Voltage) and Services | Up to 1,000V | | | |
| HV (High Voltage) | Over 1,000V to 11,000V | | | |
| EHV (Extra High Voltage) | 22,000V to 132,000V | | | |
| Transmission | 275,000V and 400,000V | | | |
| NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID | | | | |
| Services | LV | HV | EHV | |
| Footpath/unmade | 0.45m | 0.45m | 0.6m | 0.8m |
| Road Crossing | 0.6m | 0.6m | 0.75m | 0.9m |
| Agricultural | 1m | 1m | 1m | 1.1m |

Legend

..... 15x4CAI
 95x4CAI
 85x4CAI
 12kV
 22kV
 132kV
 275kV
 400kV

Disturbance Symbols (Electrical)

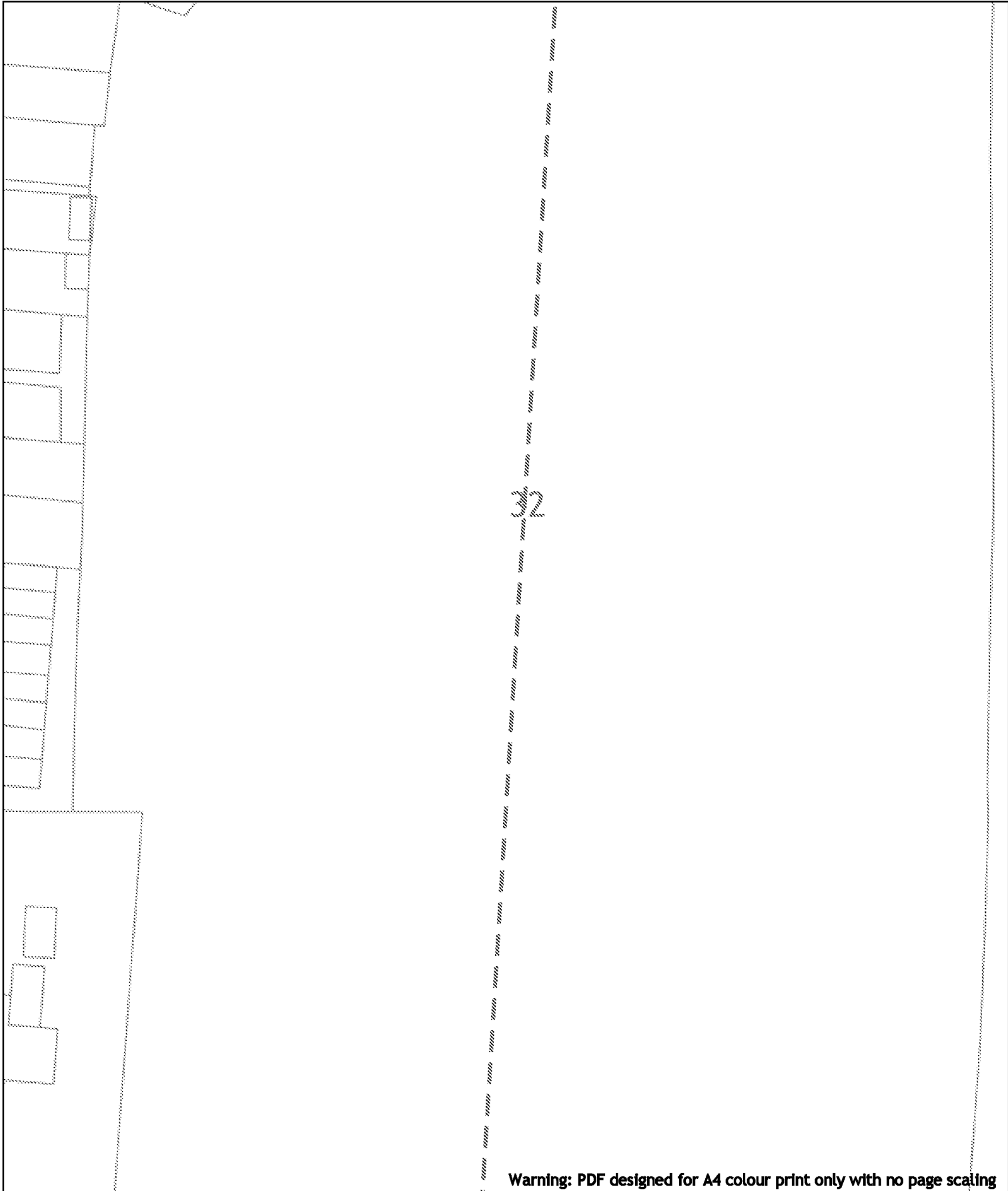
..... 15x4CAI
 95x4CAI
 85x4CAI
 12kV
 22kV
 132kV
 275kV
 400kV

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020m Dig Sites Area: Line:

Date Requested: 27/04/2023

Job Reference: 29316491

Site Location: 494090 104774

Requested by: Mr Ben Evans

Your Scheme/Reference: LM 203277/SaP

Scale: 1:500 (When plotted at A4)

| Voltages (V) | | | |
|--|------------------------|-------|-------|
| LV (Low Voltage) and Services | Up to 1,000V | | |
| HV (High Voltage) | Over 1,000V to 11,000V | | |
| EHV (Extra High Voltage) | 22,000V to 132,000V | | |
| Transmission | 275,000V and 400,000V | | |
| NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID | | | |
| Services | LV | HV | EHV |
| Footpath/unmade | 0.45m | 0.45m | 0.8m |
| Road Crossing | 0.6m | 0.6m | 0.75m |
| Agricultural | 1m | 1m | 1.1m |

LEGEND

..... Service Cable

..... 25-30kV

..... 66kV

..... 110kV

..... 132kV

..... 175kV

..... 220kV

..... 275kV

..... 330kV

..... 400kV

..... 500kV

..... 765kV

Distribution Structures (Electrical)

⊗ Pole-erecting location

⊗ Pole structure, including location of single phase structure, including location of

⊗ Gas Point

⊗ 120kV 140kV 150kV

Southern Electric Power Distribution plc

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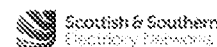
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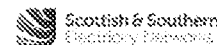
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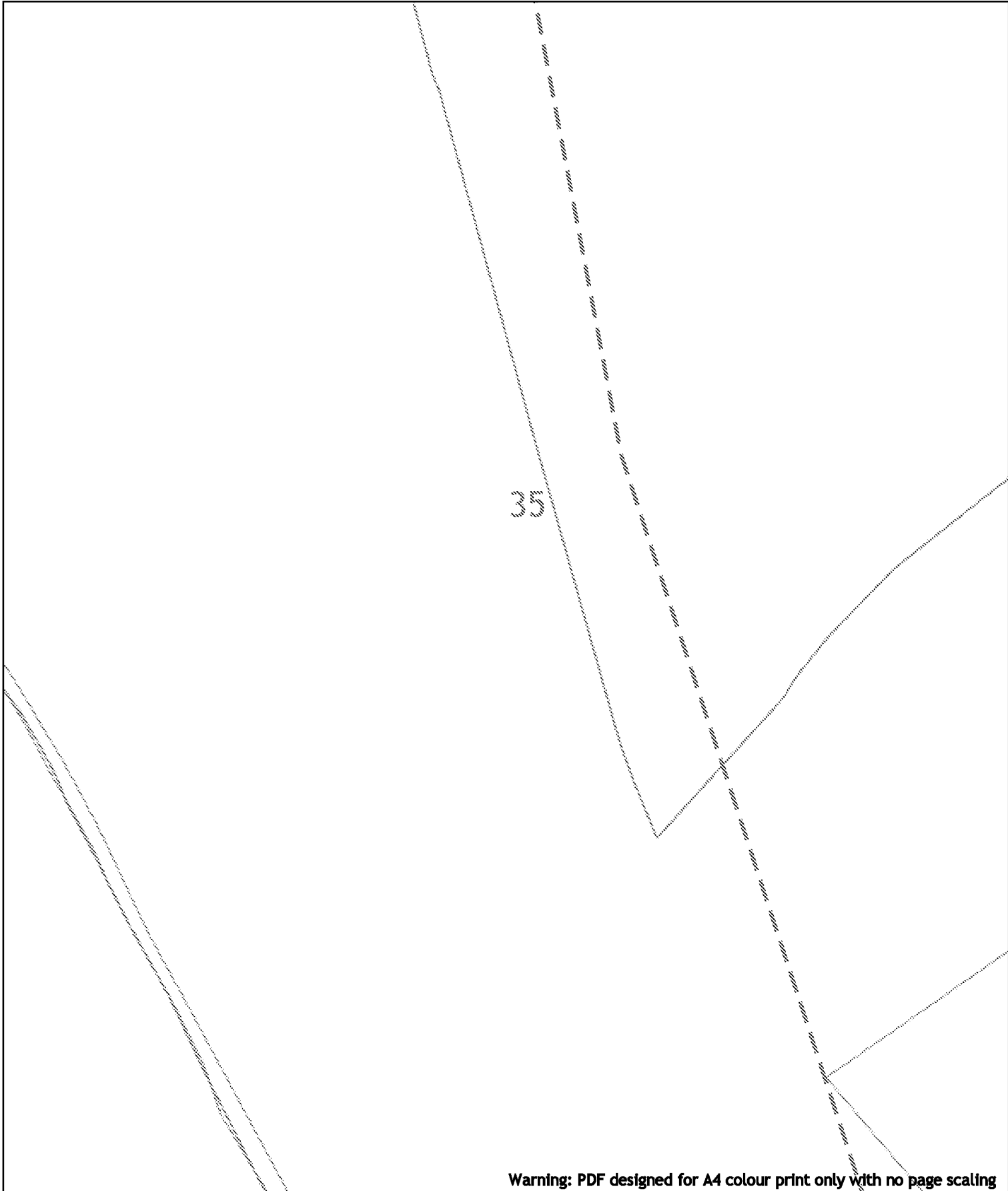
| Legend | 2016 Student Survey Results (Percent) |
|-------------------|---|
| ~~~~~ Success 22% | ✓ Peer Collaboration |
| ~~~~~ 24% None | ✓ Peer Delegation |
| ~~~~~ 7% - 23% | ✓ Peer Delegation, Building confidence in group |
| ~~~~~ 65% | ✓ Peer Delegation, Building confidence in group |
| ~~~~~ 23% | ✓ Peer Delegation, Building confidence in group |
| ~~~~~ 60% | ✓ Peer Delegation |
| ~~~~~ 60% | ✓ Peer Delegation |
| ~~~~~ 23% of | ✓ Peer Delegation |
| ~~~~~ 73% | ✓ Peer Delegation |
| ~~~~~ 40% | ✓ Peer Delegation |
| ~~~~~ 20% of 10% | ✓ Peer Delegation |
| ~~~~~ 53% of 60% | ✓ Peer Delegation |

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Asset.Data@sse.com
01256 337 294

When a structure becomes unusable after an event, the structure itself, that water must be withdrawn, to the surface each in a well depth of 1 meter. Its 17' 27" thick from the inside and taking thereon, building thereon from inside (also) should be considered either unnecessary precaution work.

When a structure is in the danger of becoming unusable, the structure will have to be removed and the structure will have to be removed. It is not possible to remove the structure.

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020m

Dig Sites

Area:

Line:

Date Requested: 27/04/2023

Job Reference: 29316491

Site Location: 494090 104774

Requested by: Mr Ben Evans

Your Scheme/Reference: LM 203277/SaP

| Voltages (V) | | | |
|--|------------------------|-------|-------|
| LV (Low Voltage) and Services | Up to 1,000V | | |
| HV (High Voltage) | Over 1,000V to 11,000V | | |
| EHV (Extra High Voltage) | 22,000V to 132,000V | | |
| Transmission | 275,000V and 400,000V | | |
| NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID | | | |
| Services | LV | HV | EHV |
| Footpath/unmade | 0.45m | 0.45m | 0.6m |
| Road Crossing | 0.6m | 0.6m | 0.75m |
| Agricultural | 1m | 1m | 1.1m |

LEGEND

Proposed Cable

20 Meters

5 - 250V

66kV

11kV

22kV

66kV

132kV

275kV

400kV

500kV

750kV

Distribution Structures (Electric)

Pole-earthing location

Pole structure, pole-top location - single

Pole structure, pole-top location - multiple

Gas Poles

150mm dia/200mm dia

Southern Electric Power Distribution plc

Registered Office: No.1 Forbury Place

43 Forbury Road Reading RG1 3JH

Registered In England & Wales No.04094290

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General Enquiries: 0800 048 3516

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Asset Data Reference: 01256 337 294

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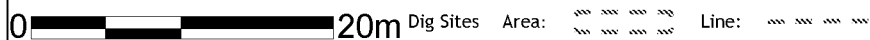
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 Scottish & Southern
Electricity Networks

Date Requested: 27/04/2023

Job Reference: 29316491

Site Location: 494090 104774

Requested by: Mr Ben Evans

Your Scheme/Reference: LM
203277/SaP

Scale: 1:500 (When plotted at A4)

| Voltages (V) | | | | |
|---|------------------------|-------|-------|------|
| LV (Low Voltage) and Services | Up to 1,000V | | | |
| HV (High Voltage) | Over 1,000V to 11,000V | | | |
| EHV (Extra High Voltage) | 22,000V to 132,000V | | | |
| Transmission | 275,000V and 400,000V | | | |
| NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID | | | | |
| | Services | LV | HV | EHV |
| Footpath/Unmade | 0.45m | 0.45m | 0.6m | 0.7m |
| Road Crossing | 0.6m | 0.6m | 0.75m | 0.7m |
| Agricultural | 1m | 1m | 1m | 1.1m |

| Legend | Abbreviations for variables [variables] |
|--------|---|
| ..... | Percent (%) |
| ..... | 10 Millions |
| ..... | 1 - 2,345 |
| ..... | 6,543 |
| ..... | 1,234 |
| ..... | 2345 |
| ..... | 645 |
| ..... | 6543 |
| ..... | 13245 |
| ..... | 1354 |
| ..... | 45678 |
| ..... | 12345678 |
| ..... | 123456789 |
| ..... | 1234567890 |

\*\*\*\*\*

When measuring beamwatermen stations in the station field, first water must be withdrawn to determine each station and depth of water. As 10' of water from the float and 10' of water from the float (10' of water from the float) should be considered water in the station and depth of water.

[illegible]

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43 Forbury Road Reading RG1 3JH
Registered In England & Wales No.04094290

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General Enquiries: 0800 048 3516

Subject to revision – Master held by SSEN Asset Data Team:
Asset\_Data@ssen.com
 01256 337 294

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0 20m Dig Sites Area: Line:

Date Requested: 27/04/2023
Job Reference: 29316491
Site Location: 494090 104774
Requested by: Mr Ben Evans

Your Scheme/Reference: LM
203277/SaP

Scale: 1:500 (When plotted at A4)

| Voltages (V) | | | | |
|--|------------------------|-------|-------|------|
| LV (Low Voltage) and Services | Up to 1,000V | | | |
| HV (High Voltage) | Over 1,000V to 11,000V | | | |
| EHV (Extra High Voltage) | 22,000V to 132,000V | | | |
| Transmission | 275,000V and 400,000V | | | |
| NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID | | | | |
| | Services | LV | HV | EHV |
| Footpath/Unmade | 0.45m | 0.45m | 0.6m | 0.7m |
| Road Crossing | 0.6m | 0.6m | 0.75m | 0.7m |
| Agricultural | 1m | 1m | 1m | 1.1m |

| Legend |
|---------------------|
| Service Cable |
| 25 MVA |
| 2 - 250V |
| 66kV |
| 11kV |
| 22kV |
| 66kV |
| 132kV |
| 275kV |
| 400kV |
| 500kV |
| 750kV |

| Distribution Structures (Electrical) |
|--|
| Pole-erecting location |
| Pole structure, including location of pole |
| Pole structure, including location of pole |



Scottish & Southern
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Site Location: 494090 104774
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|-------------------------------|------------------------|--|--|
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| EHV (Extra High Voltage) | 22,000V to 132,000V | | |
| Transmission | 275,000V and 400,000V | | |

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID

Services LV HV EHV

Footpath/unmade 0.45m 0.45m 0.6m 0.8m

Road Crossing 0.6m 0.6m 0.75m 0.9m

Agricultural 1m 1m 1m 1.1m

| Legend |
|---------------------|
| Service Cable |
| 25 MVA |
| 2 - 250V |
| 66kV |
| 11kV |
| 22kV |
| 66kV |
| 132kV |
| 275kV |
| 400kV |
| 500kV |
| 750kV |

Distribution Structures (Electrical)

| |
|---|
| Pole-erected structure |
| Pole structure, including overhead line |
| Pole structure, including overhead line |

..... 250kV

..... 132kV

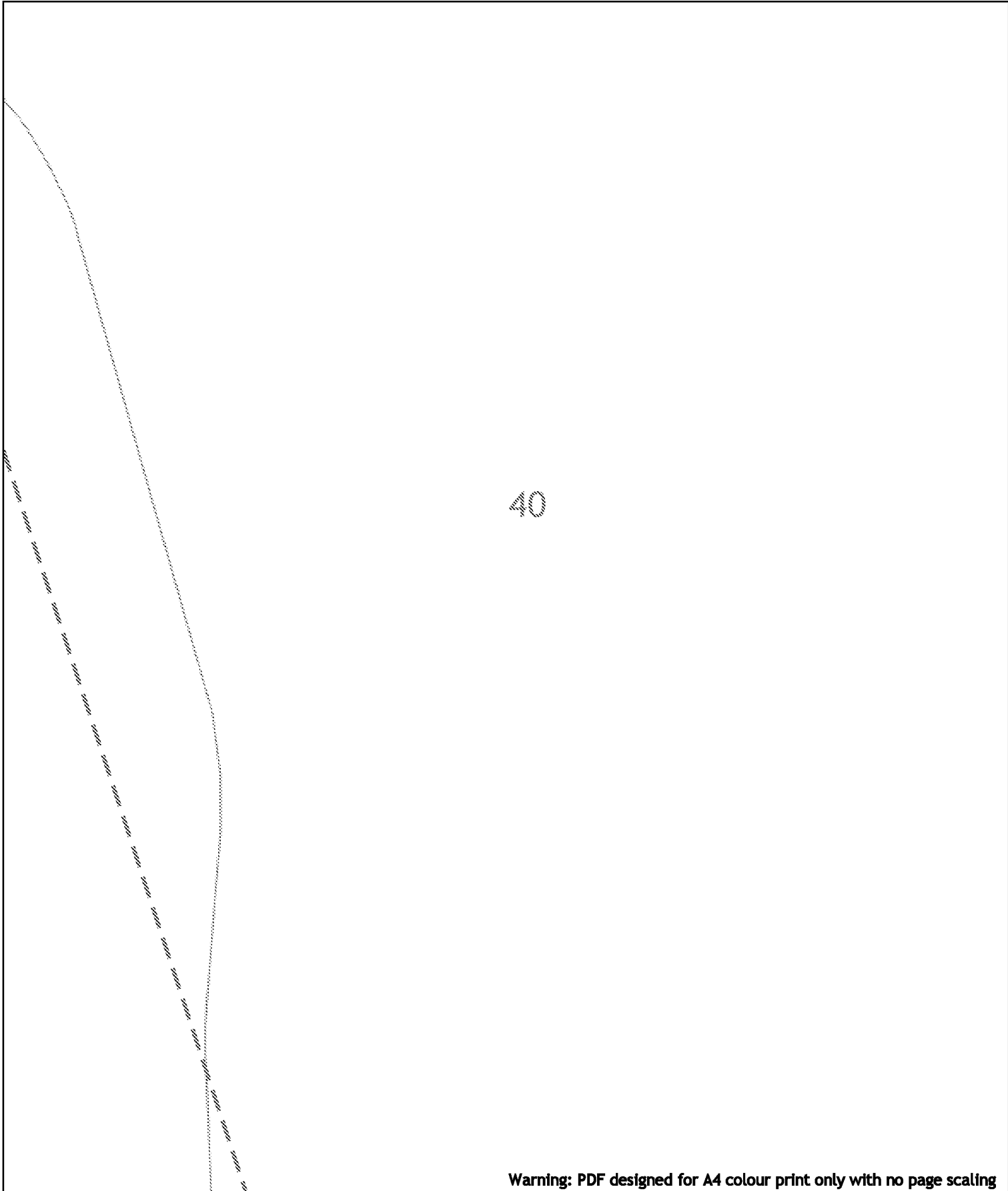


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020m

Dig Sites

Area:

Line:

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Job Reference: 29316491

Site Location: 494090 104774

Requested by: Mr Ben Evans

Your Scheme/Reference: LM 203277/SaP

| Voltages (V) | | | |
|-------------------------------|------------------------|--|--|
| LV (Low Voltage) and Services | Up to 1,000V | | |
| HV (High Voltage) | Over 1,000V to 11,000V | | |
| EHV (Extra High Voltage) | 22,000V to 132,000V | | |
| Transmission | 275,000V and 400,000V | | |

| Services | NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID | | | |
|-----------------|--|-------|-------|------|
| | LV | HV | EHV | |
| Footpath/unmade | 0.45m | 0.45m | 0.6m | 0.8m |
| Road Crossing | 0.6m | 0.6m | 0.75m | 0.9m |
| Agricultural | 1m | 1m | 1m | 1.1m |

Legend

Proposed Cable

25 MVA

132-220kV

275kV

400kV

500kV

765kV

1,100kV

1,320kV

1,750kV

2,200kV

2,750kV

3,300kV

3,800kV

4,400kV

5,000kV

5,500kV

6,000kV

6,600kV

7,200kV

7,700kV

8,300kV

8,800kV

9,300kV

9,800kV

10,300kV

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192,300kV

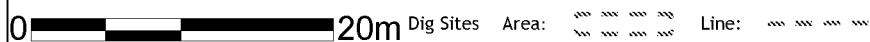
192,800kV

193,300kV

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Track

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 Scottish & Southern
Electricity Networks

Date Requested: 27/04/2023
Job Reference: 29316491
Site Location: 494090 104774
Requested by: Mr Ben Evans

| Voltages (V) | | | | |
|---|------------------------|-------|-------|------|
| LV (Low Voltage) and Services | Up to 1,000V | | | |
| HV (High Voltage) | Over 1,000V to 11,000V | | | |
| EHV (Extra High Voltage) | 22,000V to 132,000V | | | |
| Transmission | 275,000V and 400,000V | | | |
| NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID | | | | |
| | Services | LV | HV | EHV |
| Footpath/Unmade | 0.45m | 0.45m | 0.6m | 0.7m |
| Road Crossing | 0.6m | 0.6m | 0.75m | 0.7m |
| Agricultural | 1m | 1m | 1m | 1.1m |

[illegible]

Southern Electric Power Distribution plc
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43 Forbury Road Reading RG1 3JH
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020m

Dig Sites

Area:

Line:

Date Requested: 27/04/2023

Job Reference: 29316491

Site Location: 494090 104774

Requested by: Mr Ben Evans

Your Scheme/Reference: LM 203277/SaP

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| EHV (Extra High Voltage) | 22,000V to 132,000V | | |
| Transmission | 275,000V and 400,000V | | |
| NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID | | | |
| Services | LV | HV | EHV |
| Footpath/unmade | 0.45m | 0.45m | 0.8m |
| Road Crossing | 0.6m | 0.6m | 0.75m |
| Agricultural | 1m | 1m | 1.1m |

LEGEND

Proposed Cable

20 Meters

5 - 20M

12kV

25kV

60V

20kV

250k Cable

250k Cable

Distribution Structures (Electrical)

Pole - existing location

Pole - proposed location - single

Pole - proposed location - double

Gate Poles

1200V 14/20mm SWGL

Scottish & Southern Electricity Networks

Southern Electric Power Distribution plc

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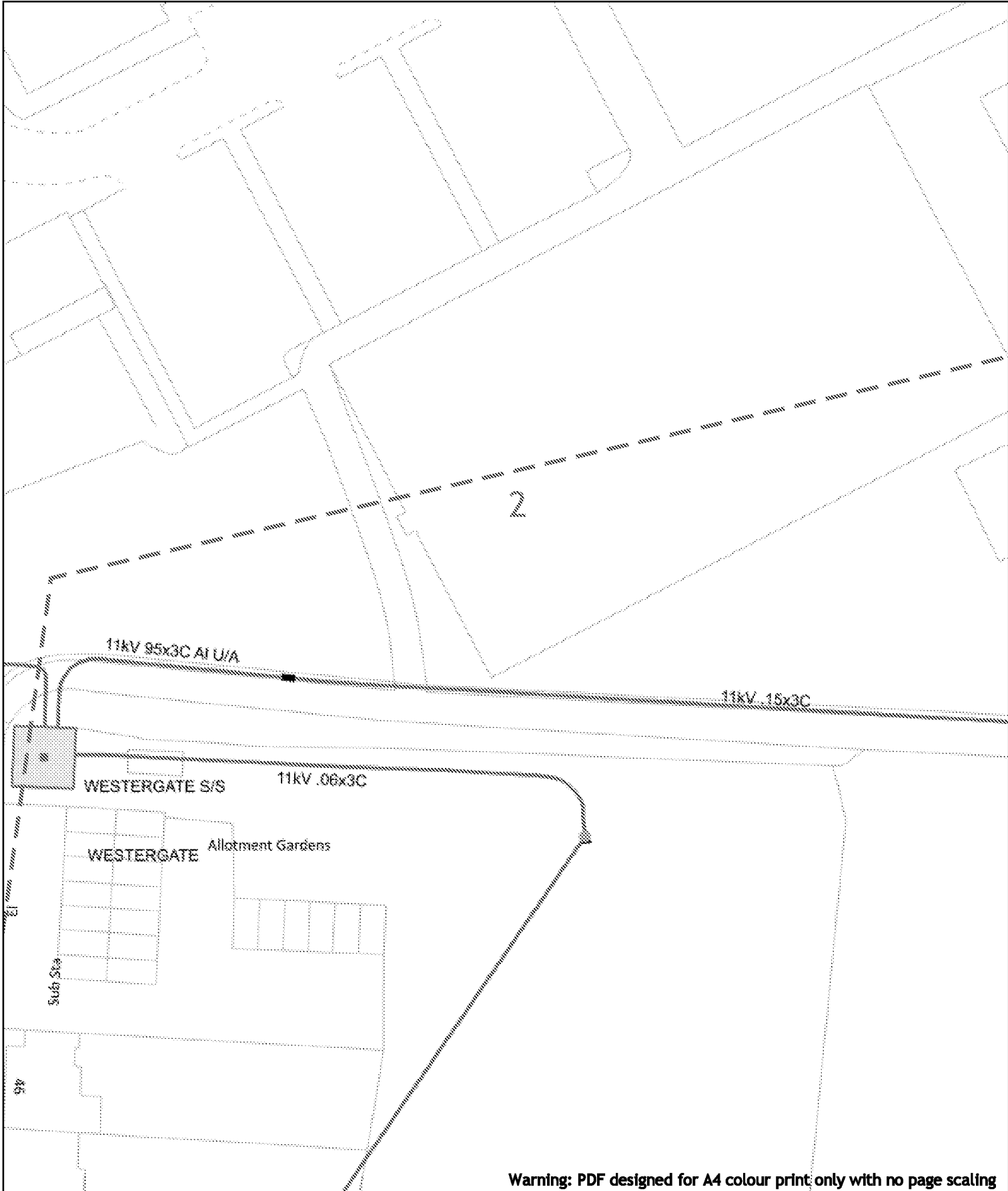
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| Transmission | 275,000V and 400,000V | | |
| NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID | | | |
| Services | LV | HV | EHV |
| Footpath/unmade | 0.45m | 0.45m | 0.6m |
| Road Crossing | 0.6m | 0.6m | 0.75m |
| Agricultural | 1m | 1m | 1.1m |

LEGEND

11kV 95x3C Al U/A

11kV 15x3C

11kV .06x3C

25kV 15x3C

132kV 15x3C

400kV 15x3C

Distribution Structure (Electric)

Pole-Setting Location

Pole-Setting Location - Single

Pole-Setting Location - Double

11kV 95x3C Al U/A

11kV 15x3C

11kV .06x3C

25kV 15x3C

132kV 15x3C

400kV 15x3C

North Arrow

Southern Electric

Southern Electric Power Distribution plc

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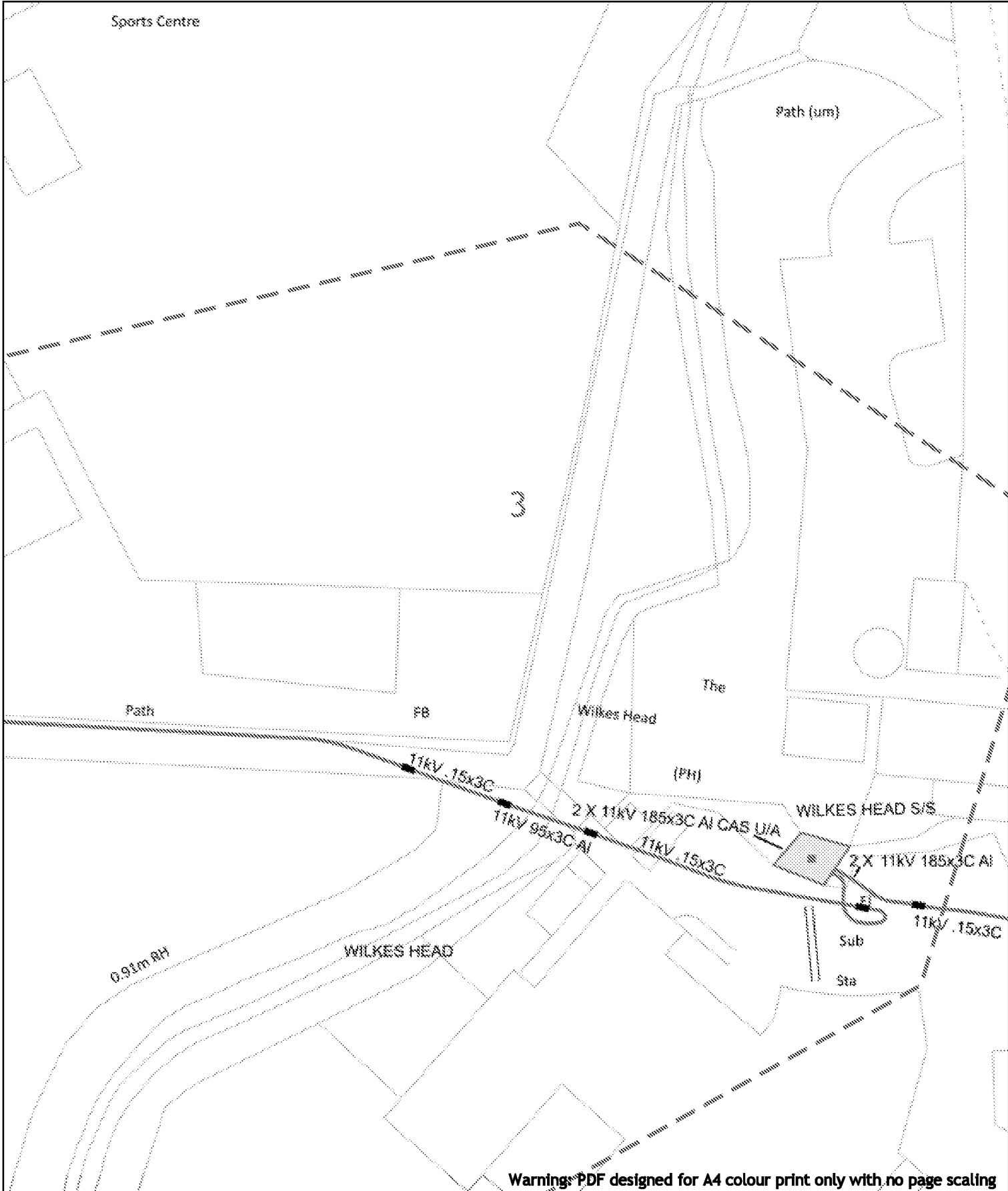
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Scale: 1:500 (When plotted at A4)

Voltages (V)

LV (Low Voltage) and Services Up to 1,000V

HV (High Voltage) Over 1,000V to 11,000V

EHV (Extra High Voltage) 22,000V to 132,000V

Transmission 275,000V and 400,000V

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID

Services LV HV EHV

Footpath/unmade 0.45m 0.45m 0.6m 0.8m

Road Crossing 0.6m 0.6m 0.75m 0.9m

Agricultural 1m 1m 1m 1.1m

Legend

Proposed Cable

20.5kV

22.5kV

25kV

27.5kV

30kV

33kV

36kV

39kV

42kV

45kV

48kV

51kV

54kV

57kV

60kV

63kV

66kV

69kV

72kV

75kV

78kV

81kV

84kV

87kV

90kV

93kV

96kV

99kV

102kV

105kV

108kV

111kV

114kV

117kV

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681kV

684kV

687kV

690kV

693kV

696kV

699kV

702kV

705kV

708kV

711kV

714kV

717kV

720kV

723kV

726kV

729kV

732kV

735kV

738kV

741kV

744kV

747kV

750kV

753kV

756kV

759kV

762kV

765kV

768kV

771kV

774kV

777kV

780kV

783kV

786kV

789kV

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2796kV

2799kV

2802kV

2805kV

2808kV

2811kV

2814kV

2817kV

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2823kV

2826kV

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2835kV

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2961kV

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2997kV

3000kV

Warning

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020m Dig Sites Area: Line:

Date Requested: 27/04/2023

Job Reference: 29316491

Site Location: 494090 104774

Requested by: Mr Ben Evans

Your Scheme/Reference: LM 203277/SaP

Scale: 1:500 (When plotted at A4)

Voltages (V)

LV (Low Voltage) and Services Up to 1,000V

HV (High Voltage) Over 1,000V to 11,000V

EHV (Extra High Voltage) 22,000V to 132,000V

Transmission 275,000V and 400,000V

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID

Services LV HV EHV

Footpath/unmade 0.45m 0.45m 0.6m 0.8m

Road Crossing 0.6m 0.6m 0.75m 0.9m

Agricultural 1m 1m 1m 1.1m

Legend

Proposed Cable

20.5kV

22.5kV

25kV

27.5kV

30kV

33kV

36kV

39kV

42kV

45kV

48kV

51kV

54kV

57kV

60kV

63kV

66kV

69kV

72kV

75kV

78kV

81kV

84kV

87kV

90kV

93kV

96kV

99kV

102kV

105kV

108kV

111kV

114kV

117kV

120kV

123kV

126kV

129kV

132kV

135kV

138kV

141kV

144kV

147kV

150kV

153kV

156kV

159kV

162kV

165kV

168kV

171kV

174kV

177kV

180kV

183kV

186kV

189kV

192kV

195kV

198kV

201kV

204kV

207kV

210kV

213kV

216kV

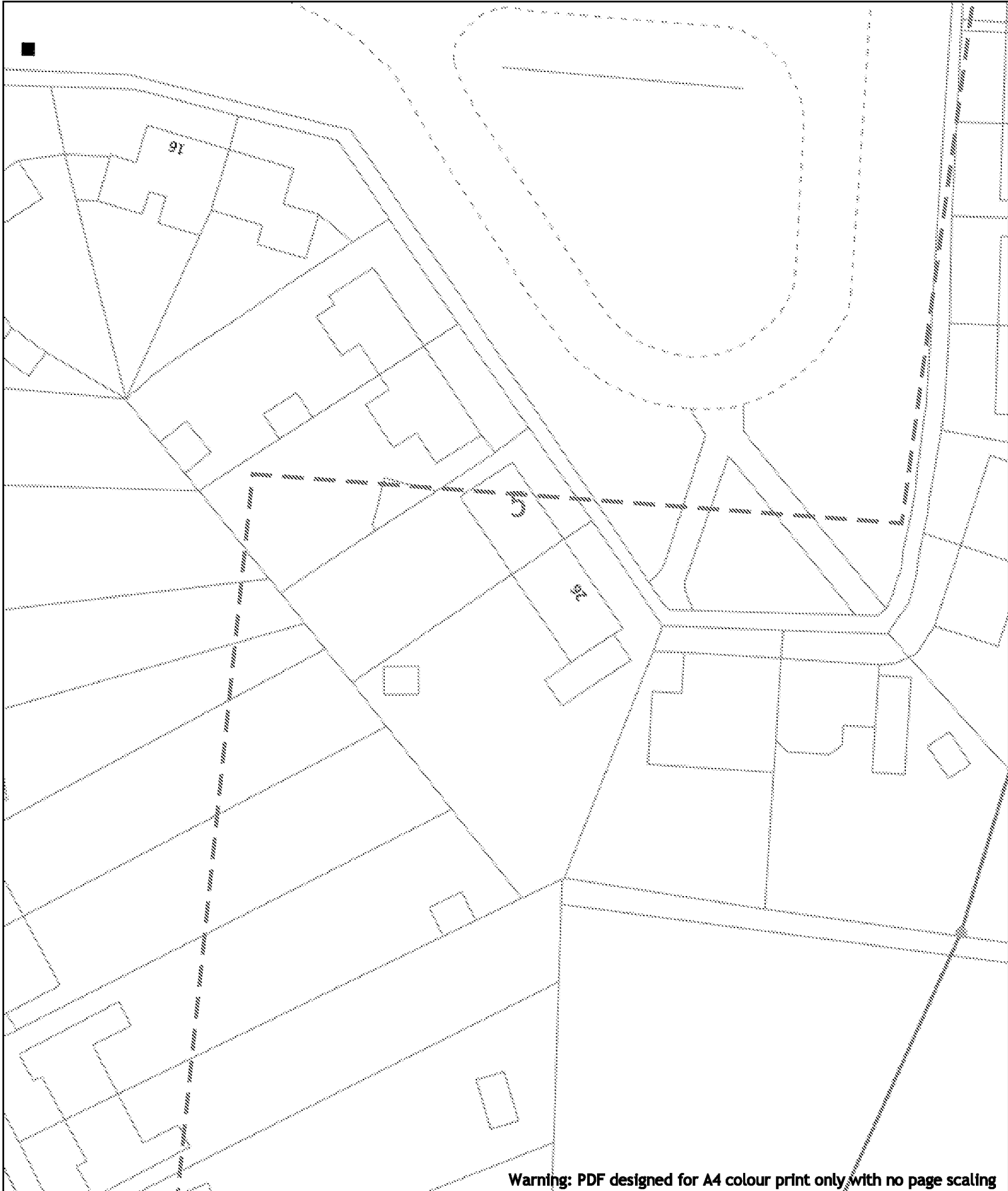
219kV

222kV

225kV

228kV

2



020m

Dig Sites

Area:

Line:

Date Requested: 27/04/2023

Job Reference: 29316491

Site Location: 494090 104774

Requested by: Mr Ben Evans

Your Scheme/Reference: LM 203277/SaP

| Voltages (V) | | | |
|--|------------------------|-------|-------|
| LV (Low Voltage) and Services | Up to 1,000V | | |
| HV (High Voltage) | Over 1,000V to 11,000V | | |
| EHV (Extra High Voltage) | 22,000V to 132,000V | | |
| Transmission | 275,000V and 400,000V | | |
| NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID | | | |
| Services | LV | HV | EHV |
| Footpath/unmade | 0.45m | 0.45m | 0.8m |
| Road Crossing | 0.6m | 0.6m | 0.75m |
| Agricultural | 1m | 1m | 1.1m |

NOTES

When installing cable in any of the above situations, the depth must be measured to the surface of the ground and depth of cable is 45-75mm from the ground and safety therefore - avoiding through holes the cable should be considered before commencing any work.

When installing cable in any of the above situations, the depth must be measured to the surface of the ground and depth of cable is 45-75mm from the ground and safety therefore - avoiding through holes the cable should be considered before commencing any work.

Southern Electric Power Distribution plc
Registered Office: No.1 Forbury Place
43 Forbury Road Reading RG1 3JH
Registered In England & Wales No.04094290

If you're unsure & need to seek advice before commencing excavations, please contact:
General Enquiries: 0800 048 3516

Subject to revision – Master held by SSEN Asset Data Team:
Asset Data Team
01256 337 294

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020m Dig Sites

Area:

Line:

Date Requested: 27/04/2023

Job Reference: 29316491

Site Location: 494090 104774

Requested by: Mr Ben Evans

Your Scheme/Reference: LM 203277/SaP

| Voltages (V) | | | | |
|--|------------------------|-------|-------|------|
| LV (Low Voltage) and Services | Up to 1,000V | | | |
| HV (High Voltage) | Over 1,000V to 11,000V | | | |
| EHV (Extra High Voltage) | 22,000V to 132,000V | | | |
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| NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID | | | | |
| Services | LV | HV | EHV | |
| Footpath/unmade | 0.45m | 0.45m | 0.6m | 0.8m |
| Road Crossing | 0.6m | 0.6m | 0.75m | 0.9m |
| Agricultural | 1m | 1m | 1m | 1.1m |

LEGEND

11kV Cable

22kV Cable

33kV Cable

66kV Cable

110kV Cable

132kV Cable

11kV Cable

22kV Cable

33kV Cable

66kV Cable

110kV Cable

132kV Cable

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66kV Cable

110kV Cable

132kV Cable

11kV Cable

22kV Cable

33kV Cable

66kV Cable

110kV Cable

132kV Cable

11kV Cable

22kV Cable

33kV Cable

66kV Cable

110kV Cable

132kV Cable

11kV Cable

22kV Cable

33kV Cable

66kV Cable

110kV Cable

132kV Cable

11kV Cable

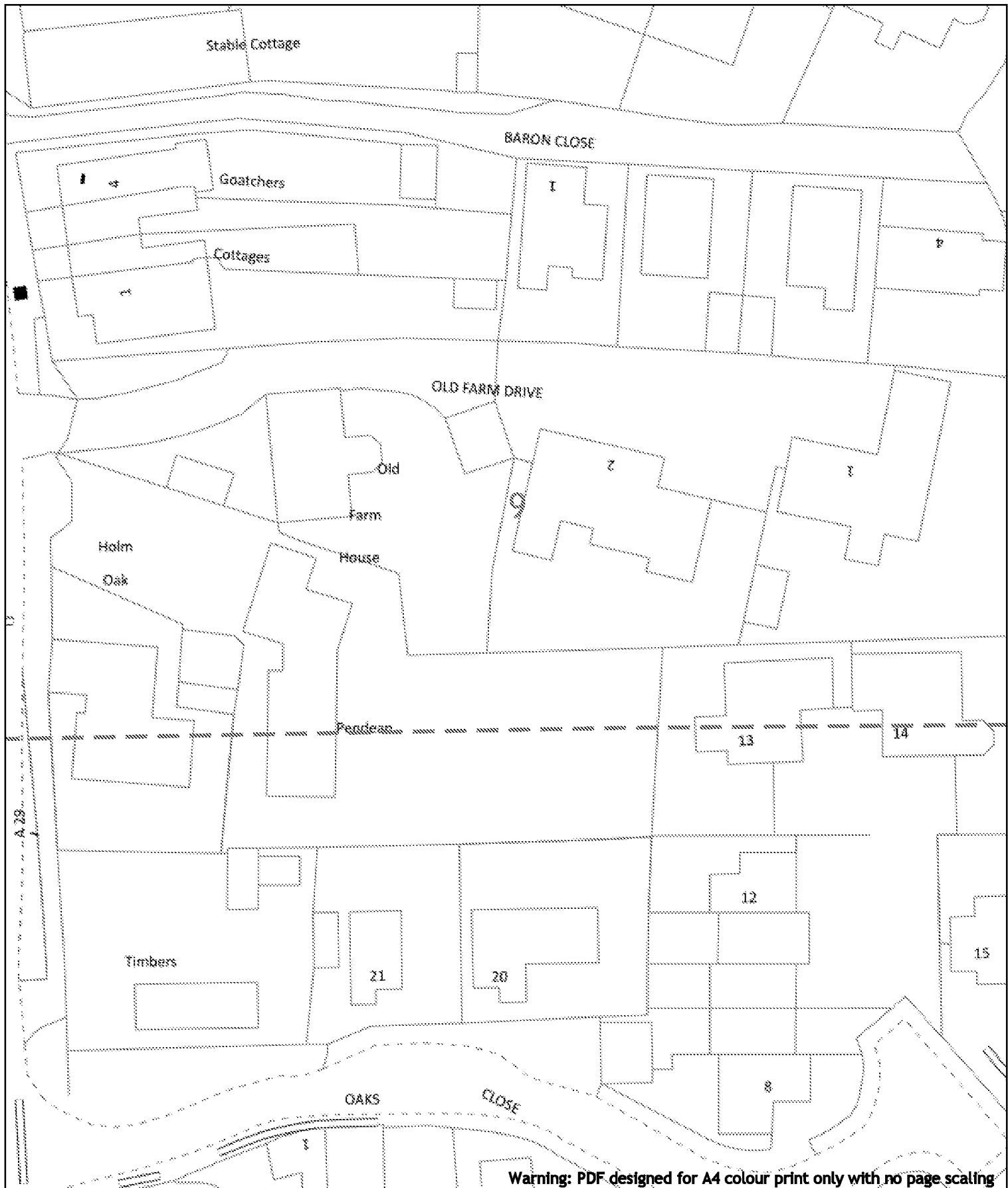
22kV Cable

33kV Cable



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General Enquiries: 0800 048 3516

Subject to revision – Master held by SSEN Asset Data Team:
Asset.Data@sse.com
 01256 337 294



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0 20m Dig Sites Area: Line:

Date Requested: 27/04/2023

Job Reference: 29316491

Site Location: 494090 104774

Requested by: Mr Ben Evans

Your Scheme/Reference: LM 203277/SaP

Scale: 1:500 (When plotted at A4)

Voltages (V)

LV (Low Voltage) and Services Up to 1,000V

HV (High Voltage) Over 1,000V to 11,000V

EHV (Extra High Voltage) 22,000V to 132,000V

Transmission 275,000V and 400,000V

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID

Services LV HV EHV

Footpath/unmade 0.45m 0.45m 0.6m 0.8m

Road Crossing 0.6m 0.6m 0.75m 0.9m

Agricultural 1m 1m 1m 1.1m

Legend

----- Reduced Level

----- 20 Metres

----- 2 = 230V

----- 12kV

----- 22kV

----- 66kV

----- 132kV

----- 275kV

----- 400kV

----- 220kV Cable

----- 500kV Cable

Distribution Structures (Electrical)

Non-energised location

High Voltage, energised location - Single

High Voltage, energised location - 3

Gas Pylon

120kV 140kV 170kV

NOTES

Notes are shown based on the proposed distribution system, the station layout, the cables must be designed, to the correct depth and depth of cables, for the 47.47m thick from the station and safety therefore - avoiding through the cables - should be considered before commencing any excavation work.

Notes are shown based on the proposed distribution system, the station layout, the cables must be designed, to the correct depth and depth of cables, for the 47.47m thick from the station and safety therefore - avoiding through the cables - should be considered before commencing any excavation work.

Scottish & Southern Electricity Networks

Southern Electric Power Distribution plc

Registered Office: No.1 Forbury Place

43 Forbury Road Reading RG1 3JH

Registered In England & Wales No.04094290

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0 20m Dig Sites Area: Line:

Date Requested: 27/04/2023
Job Reference: 29316491
Site Location: 494090 104774
Requested by: Mr Ben Evans

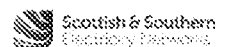
Your Scheme/Reference: LM
203277/SaP

Scale: 1:500 (When plotted at A4)

| Voltages (V) | | | | |
|--|------------------------|-------|-------|------|
| LV (Low Voltage) and Services | Up to 1,000V | | | |
| HV (High Voltage) | Over 1,000V to 11,000V | | | |
| EHV (Extra High Voltage) | 22,000V to 132,000V | | | |
| Transmission | 275,000V and 400,000V | | | |
| NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID | | | | |
| | Services | LV | HV | EHV |
| Footpath/Unmade | 0.45m | 0.45m | 0.6m | 0.7m |
| Road Crossing | 0.6m | 0.6m | 0.75m | 0.7m |
| Agricultural | 1m | 1m | 1m | 1.1m |

| Legend | |
|--------|---------------|
| ..... | Service Cable |
| ..... | 20 Mains |
| ..... | 2" - 30kV |
| ..... | 66kV |
| ..... | 11kV |
| ..... | 22kV |
| ..... | 66kV |
| ..... | 132kV |
| ..... | 275kV |
| ..... | 400kV |
| ..... | 500kV |
| ..... | 750kV |

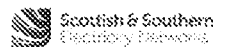
| Distribution Structures (Electrical) | |
|--------------------------------------|---|
| ..... | Pole - Cables Location |
| | Pole - Structure, Poletop Location - Single |
| | Pole - Structure, Poletop Location - Double |
| | 120kV 140/200kV Pole |



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43 Forbury Road Reading RG1 3JH
Registered In England & Wales No.04094290

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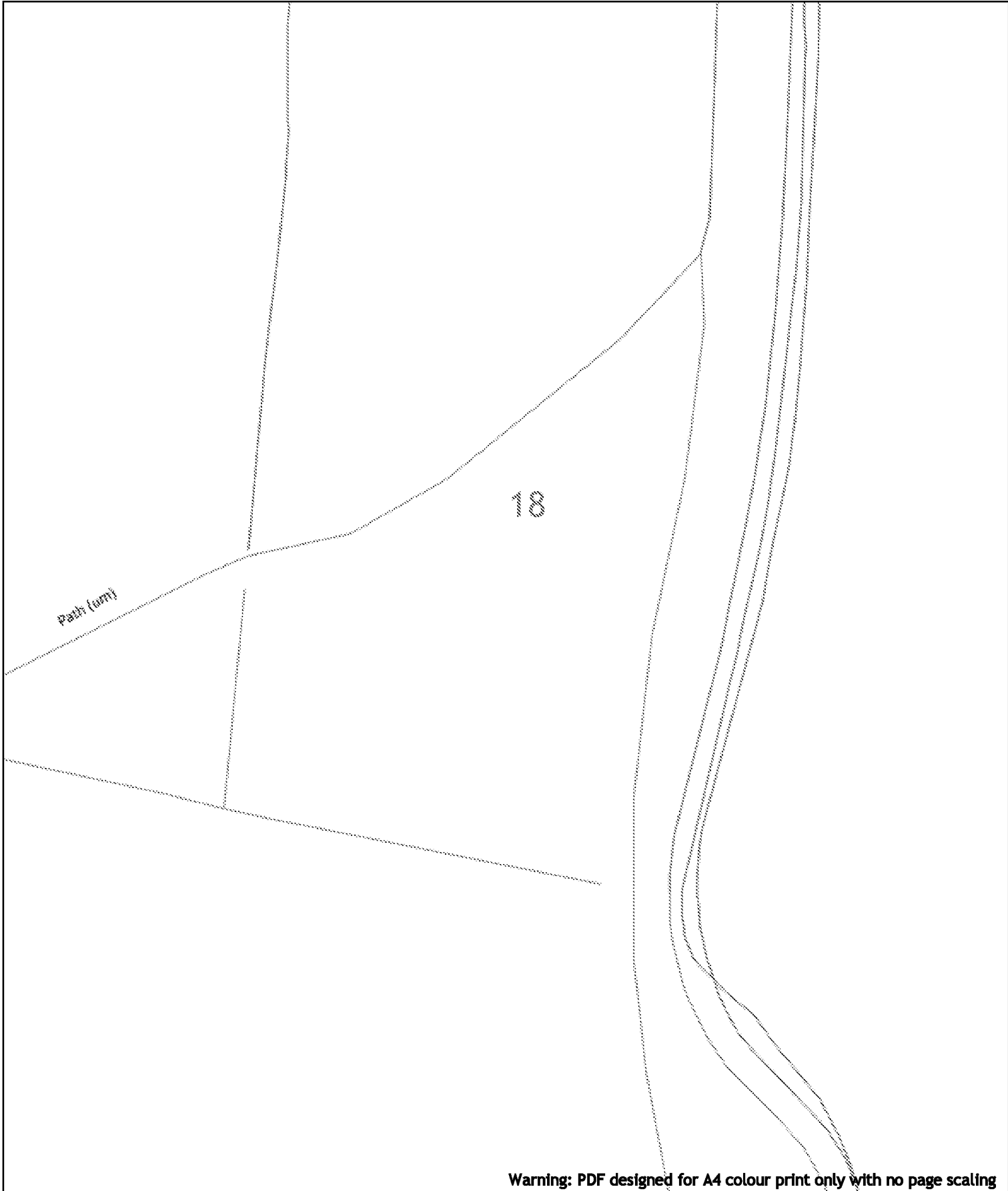
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Asset Reference: 203277/SaP
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[illegible]

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Asset.Data@ssen.com
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020m

Dig Sites

Area:

Line:

Date Requested: 27/04/2023

Job Reference: 29316491

Site Location: 494090 104774

Requested by: Mr Ben Evans

Your Scheme/Reference: LM 203277/SaP

| Voltages (V) | | | |
|-------------------------------|------------------------|--|--|
| LV (Low Voltage) and Services | Up to 1,000V | | |
| HV (High Voltage) | Over 1,000V to 11,000V | | |
| EHV (Extra High Voltage) | 22,000V to 132,000V | | |
| Transmission | 275,000V and 400,000V | | |

| Services | NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID | | | |
|-----------------|--|-------|-------|------|
| | LV | HV | EHV | |
| Footpath/unmade | 0.45m | 0.45m | 0.6m | 0.8m |
| Road Crossing | 0.6m | 0.6m | 0.75m | 0.9m |
| Agricultural | 1m | 1m | 1m | 1.1m |

Legend

Proposed Cable

Existing Cable

25-230V

660V

11kV

22kV

66kV

132kV

275kV

400kV

Distribution Structures (Electrical)

Pole location

Pole location with structure

Pole location with structure and cable

Pole location with structure and cable and tower

Other Symbols

1000V cable

1000V cable

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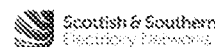
Scale: 1:500 (When plotted at A4)

| | | | | | | | |
|--|--|--|--|--------|------------|---|--|
| | | | | Legend | | Other features & warnings [Refer to] | |
| | | | | | 50mm cable |  | Flow direction |
| | | | | | 100mm |  | Flow direction, 150mm cable, 150mm depth |
| | | | | | 150mm |  | Flow direction, 150mm cable, 150mm depth |
| | | | | | 200mm |  | Flow direction, 150mm cable, 150mm depth |
| | | | | | 250mm |  | Flow direction, 150mm cable, 150mm depth |
| | | | | | 300mm |  | Flow direction, 150mm cable, 150mm depth |
| | | | | | 350mm |  | Flow direction, 150mm cable, 150mm depth |
| | | | | | 400mm |  | Flow direction, 150mm cable, 150mm depth |
| | | | | | 450mm |  | Flow direction, 150mm cable, 150mm depth |
| | | | | | 500mm |  | Flow direction, 150mm cable, 150mm depth |
| | | | | | 550mm |  | Flow direction, 150mm cable, 150mm depth |
| | | | | | 600mm |  | Flow direction, 150mm cable, 150mm depth |
| | | | | | 650mm |  | Flow direction, 150mm cable, 150mm depth |
| | | | | | 700mm |  | Flow direction, 150mm cable, 150mm depth |
| | | | | | 750mm |  | Flow direction, 150mm cable, 150mm depth |
| | | | | | 800mm |  | Flow direction, 150mm cable, 150mm depth |
| | | | | | 850mm |  | Flow direction, 150mm cable, 150mm depth |
| | | | | | 900mm |  | Flow direction, 150mm cable, 150mm depth |
| | | | | | 950mm |  | Flow direction, 150mm cable, 150mm depth |
| | | | | | 1000mm |  | Flow direction, 150mm cable, 150mm depth |
| | | | | | 1050mm |  | Flow direction, 150mm cable, 150mm depth |
| | | | | | 1100mm |  | Flow direction, 150mm cable, 150mm depth |
| | | | | | 1150mm |  | Flow direction, 150mm cable, 150mm depth |
| | | | | | 1200mm |  | Flow direction, 150mm cable, 150mm depth |
| | | | | | 1250mm |  | Flow direction, 150mm cable, 150mm depth |
| | | | | | 1300mm |  | Flow direction, 150mm cable, 150mm depth |
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| | | | | | 1650mm |  | Flow direction, 150mm cable, 150mm depth |
| | | | | | 1700mm |  | Flow direction, 150mm cable, 150mm depth |
| | | | | | 1750mm |  | Flow direction, 150mm cable, 150mm depth |
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| | | | | | 2000mm |  | Flow direction, 150mm cable, 150mm depth |
| | | | | | 2050mm |  | Flow direction, 150mm cable, 150mm depth |
| | | | | | 2100mm |  | Flow direction, 150mm cable, 150mm depth |
| | | | | | 2150mm | | Flow direction, 150mm cable, 150mm depth |
| | | | | | 2200mm | | Flow direction, 150mm cable, 150mm depth |
| | | | | | 2250mm | | Flow direction, 150mm cable, 150mm depth |
| | | | | | 2300mm | | Flow direction, 150mm cable, 150mm depth |
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| | | | | | 6000mm | | Flow direction, 150mm cable, 150mm depth |
| | | | | | 6050mm | | Flow direction, 150mm cable, 150mm depth |
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| | | | | | 6200mm | | Flow direction, 150mm cable, 150mm depth |
| | | | | | 6250mm | | Flow direction, 150mm cable, 150mm depth |
| | | | | | 6300mm | | Flow direction, 150mm cable, 150mm depth |
| | | | | | 6350mm | | Flow direction, 150mm cable, 150mm depth |
| | | | | | 6400mm | | Flow direction, 150mm cable, 150mm depth |
| | | | | | 6450mm | | Flow direction, 150mm cable, 150mm depth |
| | | | | | 6500mm | | Flow direction, 150mm cable, 150mm depth |
| | | | | | 6550mm | | Flow direction, 150mm cable, 150mm depth |
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| | | | | | 7000mm | | Flow direction, 150mm cable, 150mm depth |
| | | | | | 7050mm | | Flow direction, 150mm cable, 150mm depth |
| | | | | | 7100mm | | Flow direction, 150mm cable, 150mm depth |
| | | | | | 7150mm | | Flow direction, 150mm cable, 150mm depth |
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| | | | | | 7250mm | | Flow direction, 150mm cable, 150mm depth |
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| | | | | | 7350mm | | Flow direction, 150mm cable, 150mm depth |
| | | | | | 7400mm | | Flow direction, 150mm cable, 150mm depth |
| | | | | | 7450mm | | Flow direction, 150mm cable, 150mm depth |
| | | | | | 7500mm | | Flow direction, 150mm cable, 150mm depth |
| | | | | | 7550mm | | Flow direction, 150mm cable, 150mm depth |
| | | | | | 7600mm | | |

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0 20m Dig Sites Area: Line:

Date Requested: 27/04/2023

Job Reference: 29316491

Site Location: 494090 104774

Requested by: Mr Ben Evans

Your Scheme/Reference: LM
203277/SaP

Scale: 1:500 (When plotted at A4)

| Voltages (V) | | | | |
|--|------------------------|-------|-------|------|
| LV (Low Voltage) and Services | Up to 1,000V | | | |
| HV (High Voltage) | Over 1,000V to 11,000V | | | |
| EHV (Extra High Voltage) | 22,000V to 132,000V | | | |
| Transmission | 275,000V and 400,000V | | | |
| NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID | | | | |
| | Services | LV | HV | EHV |
| Footpath/Unmade | 0.45m | 0.45m | 0.6m | 0.8m |
| Road Crossing | 0.6m | 0.6m | 0.75m | 0.9m |
| Agricultural | 1m | 1m | 1m | 1.1m |

| Legend | |
|--------|---------------|
| ..... | Service Cable |
| ..... | 20 Mains |
| ..... | 2-120V |
| ..... | 16kV |
| ..... | 11kV |
| ..... | 22kV |
| ..... | 66kV |
| ..... | 132kV |
| ..... | 275kV |
| ..... | 400kV |
| ..... | 500kV |
| ..... | 750kV |

| Distribution Structures (Electric) | |
|------------------------------------|--|
| ..... | Pole-erected structure |
| ..... | Pole structure, pole-top location - single |
| ..... | Pole structure, pole-top location - double |
| ..... | 120kV 1400mm x 1000mm |

Scottish & Southern
Electricity Networks

Southern Electric Power Distribution plc
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0 20m Dig Sites Area: Line:

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Scale: 1:500 (When plotted at A4)

[illegible]

Distribution Structures (Elective)

- New Distribution
- Role Structure, Existing Location - Same
- Role Structure, Existing Location - n

be undertaken to determine whether soil depths of 1 m or 1.5 m are sufficient from the road surface to underlying groundwork.

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Path (un)

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0 20m Dig Sites Area: Line:

Date Requested: 27/04/2023
Job Reference: 29316491
Site Location: 494090 104774
Requested by: Mr Ben Evans

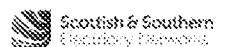
Your Scheme/Reference: LM
203277/SaP

Scale: 1:500 (When plotted at A4)

| Voltages (V) | | | | |
|--|------------------------|-------|-------|-------|
| LV (Low Voltage) and Services | Up to 1,000V | | | |
| HV (High Voltage) | Over 1,000V to 11,000V | | | |
| EHV (Extra High Voltage) | 22,000V to 132,000V | | | |
| Transmission | 275,000V and 400,000V | | | |
| NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID | | | | |
| | Services | LV | HV | EHV |
| Footpath/Unmade | 0.45m | 0.45m | 0.6m | 0.75m |
| Road Crossing | 0.6m | 0.6m | 0.75m | 0.75m |
| Agricultural | 1m | 1m | 1m | 1.1m |

| Legend | |
|--------|---------------|
| ..... | Service Cable |
| ..... | 20 Mains |
| ..... | 2-230V |
| ..... | 66V |
| ..... | 11kV |
| ..... | 22kV |
| ..... | 66kV |
| ..... | 132kV |
| ..... | 275kV |
| ..... | 400kV |
| ..... | 500kV |
| ..... | 750kV |

| Distribution Structures (Electrical) | |
|--------------------------------------|--|
| ..... | Pole-erecting location |
| ..... | Pole structure, pole-top location - single |
| | Pole structure, pole-top location - double |
| | Gas Point |
| | 1000V/1000V/1000V |



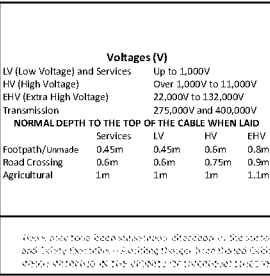
Southern Electric Power Distribution plc
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43 Forbury Road Reading RG1 3JH
Registered In England & Wales No.04094290

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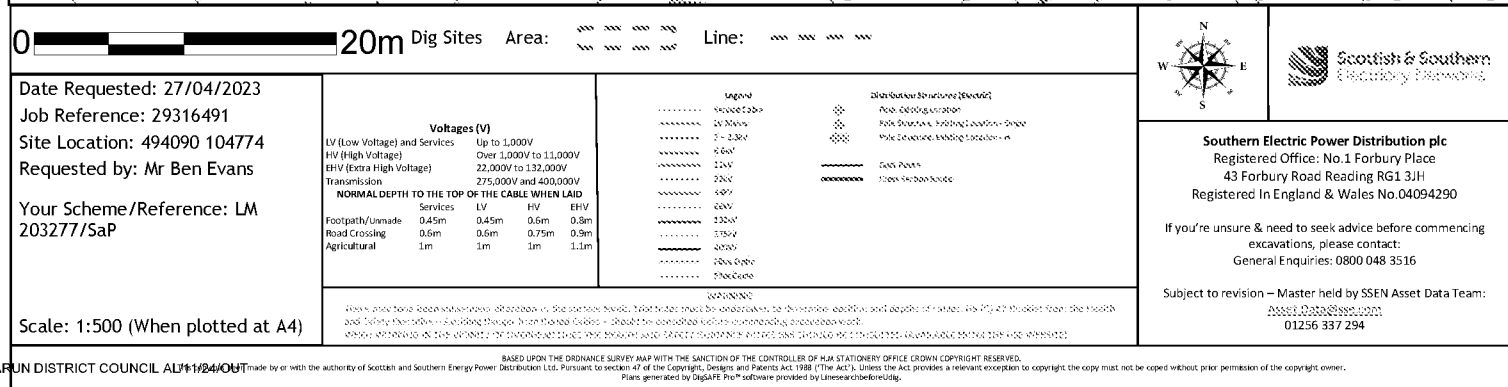
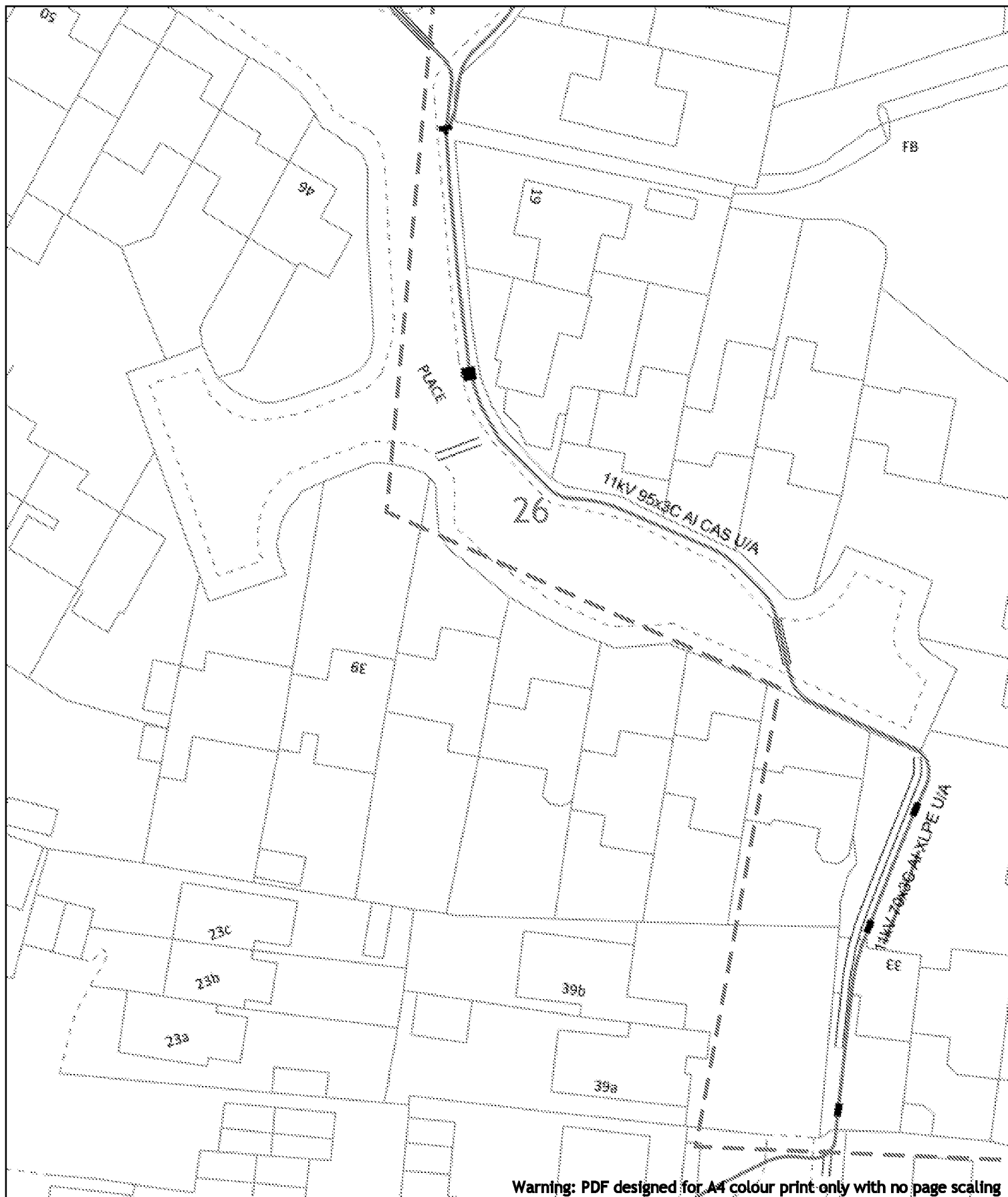
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Asset Reference: 203277/SaP
01256 337 294

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0  20m Dig Sites Area:     Line:      



| | |
|--|---|
|  |  |
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 43 Forbury Road Reading RG1 3JH
 Registered in England & Wales No.04094290 </p> | |
| <p align="center"> If you're unsure & need to seek advice before commencing excavations, please contact:
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| <p align="center"> Subject to revision – Master held by SS&N Asset Data Team:
 asset.data8888.com
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27

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0  20m Dig Sites Area:     Line:      

| Voltages (V) | | | | |
|---|------------------------|-------|-------|------|
| LV (Low Voltage) and Services | Up to 1,000V | | | |
| HV (High Voltage) | Over 1,000V to 11,000V | | | |
| EHV (Extra High Voltage) | 22,000V to 132,000V | | | |
| Transmission | 275,000V and 400,000V | | | |
| NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID | | | | |
| | Services | LV | HV | EHV |
| Footpath/Unmade | 0.45m | 0.45m | 0.6m | 0.8m |
| Road Crossing | 0.6m | 0.6m | 0.75m | 0.9m |
| Agricultural | 1m | 1m | 1m | 1.1m |

Note: The above recommendations are given as a guide only. The designer should take into account the local conditions and the requirements of the relevant standards.

[illegible]

28

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0 20m Dig Sites Area: Line:

Date Requested: 27/04/2023

Job Reference: 29316491

Site Location: 494090 104774

Requested by: Mr Ben Evans

Your Scheme/Reference: LM
203277/SaP

Scale: 1:500 (When plotted at A4)

| Voltages (V) | | | | |
|--|------------------------|-------|-------|-------|
| LV (Low Voltage) and Services | Up to 1,000V | | | |
| HV (High Voltage) | Over 1,000V to 11,000V | | | |
| EHV (Extra High Voltage) | 22,000V to 132,000V | | | |
| Transmission | 275,000V and 400,000V | | | |
| NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID | | | | |
| | Services | LV | HV | EHV |
| Footpath/Unmade | 0.45m | 0.45m | 0.6m | 0.75m |
| Road Crossing | 0.6m | 0.6m | 0.75m | 0.75m |
| Agricultural | 1m | 1m | 1m | 1.1m |

| Legend |
|---------------------|
| Service Cable |
| 25 Mains |
| 2 - 230V |
| 66kV |
| 11kV |
| 22kV |
| 66kV |
| 132kV |
| 275kV |
| 400kV |
| 500kV |
| 750kV |

| Distribution Structures (Electrical) |
|---|
| Pole-Setting Location |
| Pole Structure, Pole-top Location, Pole |
| Pole Structure, Pole-top Location, Pole |
| Pole Structure, Pole-top Location, Pole |

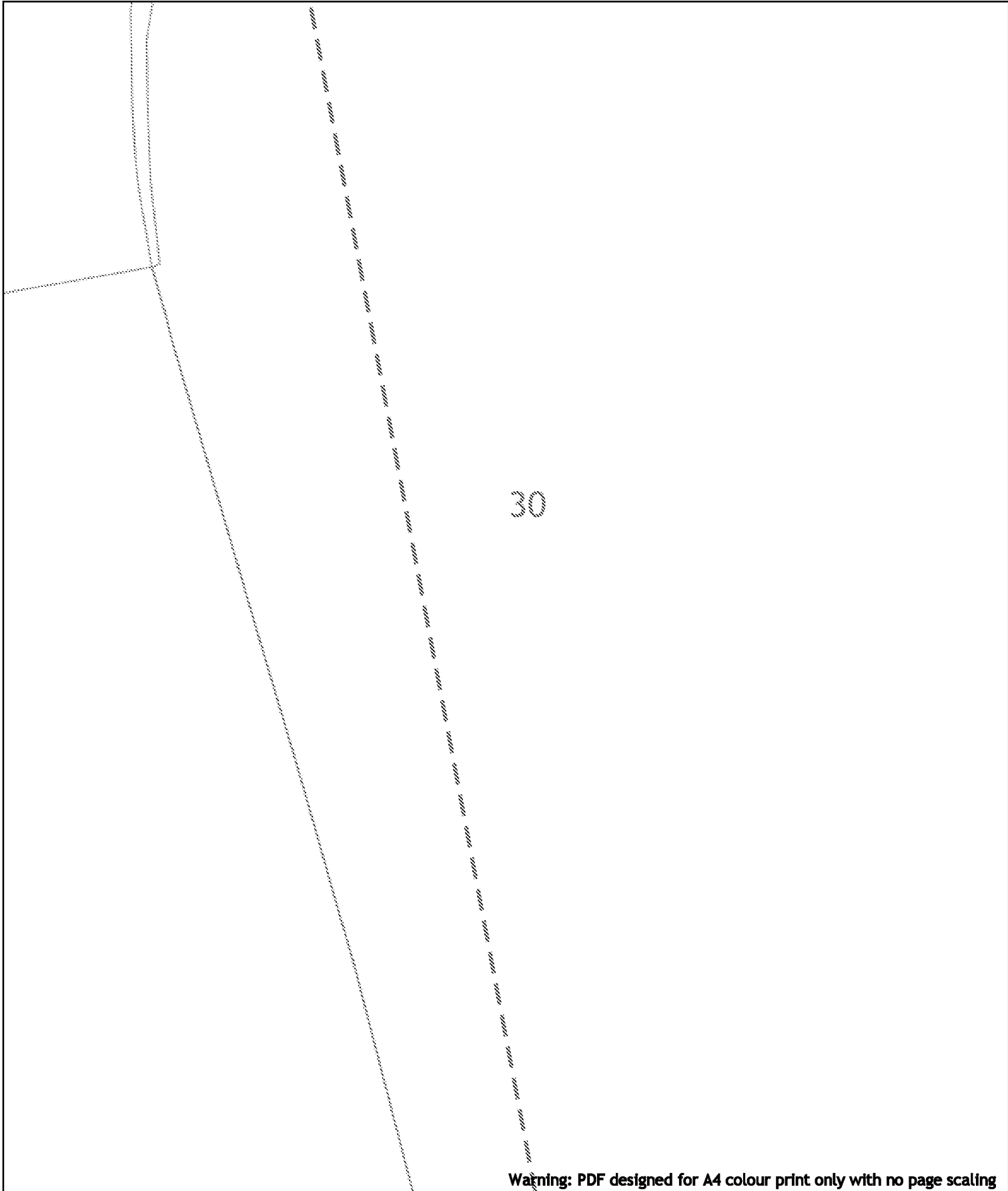


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Date Requested: 27/04/2023

Job Reference: 29316491

Site Location: 494090 104774

Requested by: Mr Ben Evans

Your Scheme/Reference: LM 203277/SaP

Scale: 1:500 (When plotted at A4)

Voltages (V)

LV (Low Voltage) and Services Up to 1,000V

HV (High Voltage) Over 1,000V to 11,000V

EHV (Extra High Voltage) 22,000V to 132,000V

Transmission 275,000V and 400,000V

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID

Services LV HV EHV

Footpath/unmade 0.45m 0.45m 0.6m 0.8m

Road Crossing 0.6m 0.6m 0.75m 0.9m

Agricultural 1m 1m 1m 1.1m

Legend

Service Cable

20 Mains

2-230V

66kV

11kV

22kV

66kV

132kV

275kV

400kV

220kV Cable

500kV Cable

Distribution Structures (Electric)

Pole-erecting location

Pole structure, pole-top location - single

Pole structure, pole-top location - double

Cable Poles

220kV-400kV double

NOTES

When erecting poles and/or towers, the location of the poles must be determined, to the nearest 100mm, and depth of the hole to be 400mm to 450mm from the ground and 100mm from the side of the hole. The poles must be set in concrete and the depth of the hole must be 400mm to 450mm from the ground and 100mm from the side of the hole.

When erecting poles and/or towers, the location of the poles must be determined, to the nearest 100mm, and depth of the hole to be 400mm to 450mm from the ground and 100mm from the side of the hole.

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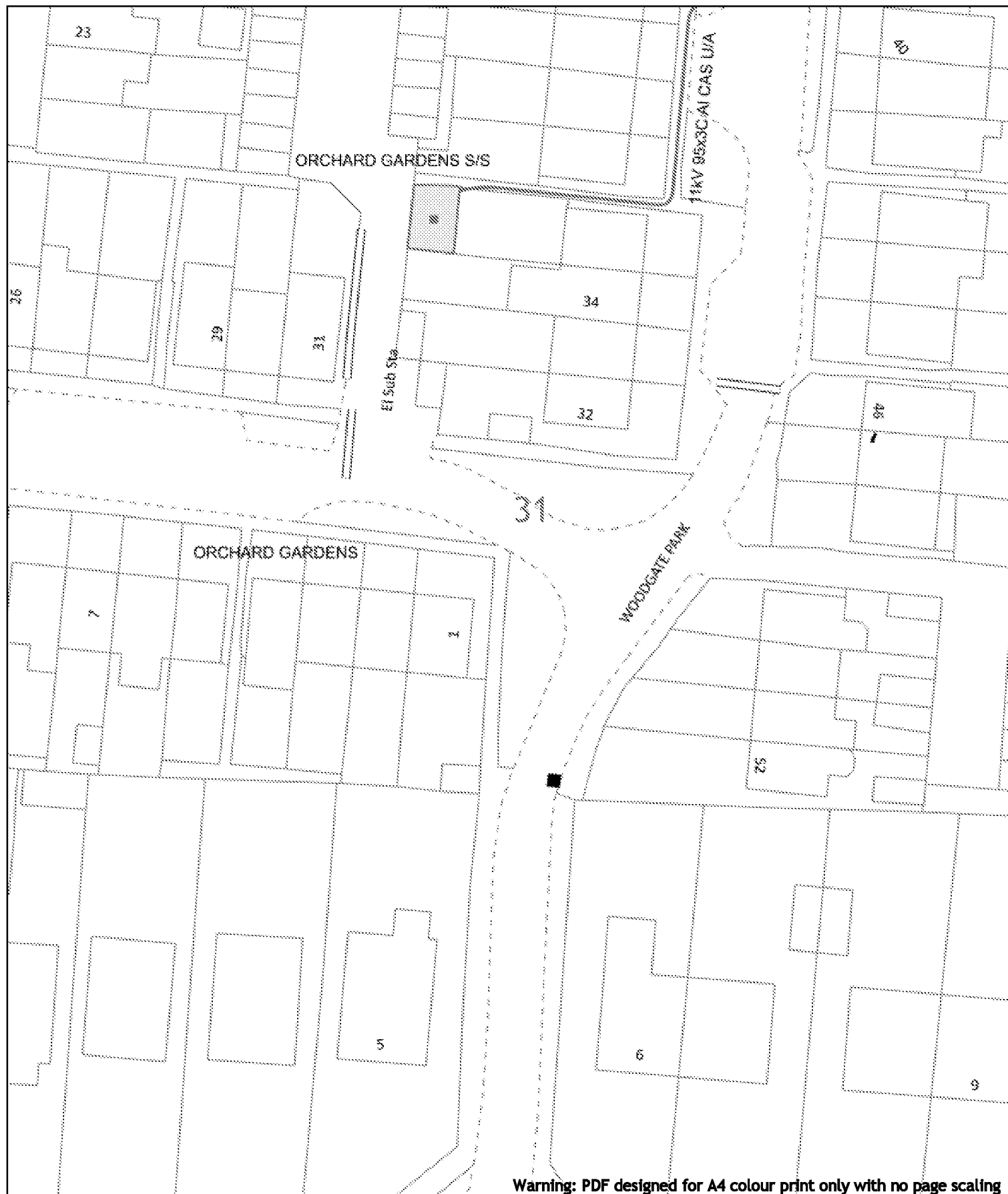
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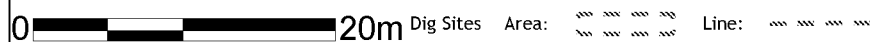
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Job Reference: 29316491

Site Location: 494090 104774

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

| Voltages (V) | | | | |
|--|------------------------|-------|-------|------|
| LV (Low Voltage) and Services | Up to 1,000V | | | |
| HV (High Voltage) | Over 1,000V to 11,000V | | | |
| EHV (Extra High Voltage) | 22,000V to 132,000V | | | |
| Transmission | 275,000V and 400,000V | | | |
| NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID | | | | |
| | Services | LV | HV | EHV |
| Footpath/Unmade | 0.45m | 0.45m | 0.6m | 0.8m |
| Road Crossing | 0.6m | 0.6m | 0.75m | 0.9m |
| Agricultural | 1m | 1m | 1m | 1.1m |

| | |
|-------|------------|
| | ungrad |
| ~~~~~ | 999999999 |
| ~~~~~ | 25 Mbytes |
| ~~~~~ | 2 - 2.5G |
| ~~~~~ | 6.6M |
| ~~~~~ | 128K |
| ~~~~~ | 220K |
| ~~~~~ | 600V |
| ~~~~~ | 600V |
| ~~~~~ | 1320W |
| ~~~~~ | 3750V |
| ~~~~~ | 4070V |
| ~~~~~ | 100m Cycle |
| ~~~~~ | 50m Cycle |

- Distribution Structures (Electric)
 - Radial Distribution
 - Pole Structure, Feeding Location - Single
 - Pole Structure, Feeding Location - n
- Fault Point
- Time Synchronization

2000

When preparing the assessment information, the student body of that state must be understood, to determine each's size and depth of interest. In 1971, at Boulder from the north and safety therein – finding things from these cities – should be considered before considering assessment work.

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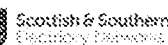
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Distribution Structures (Elective)

-  **Flowcharting Location**
-  **Pole Structures, Existing Location - Single**
-  **Pole Structure, Existing Location - m**

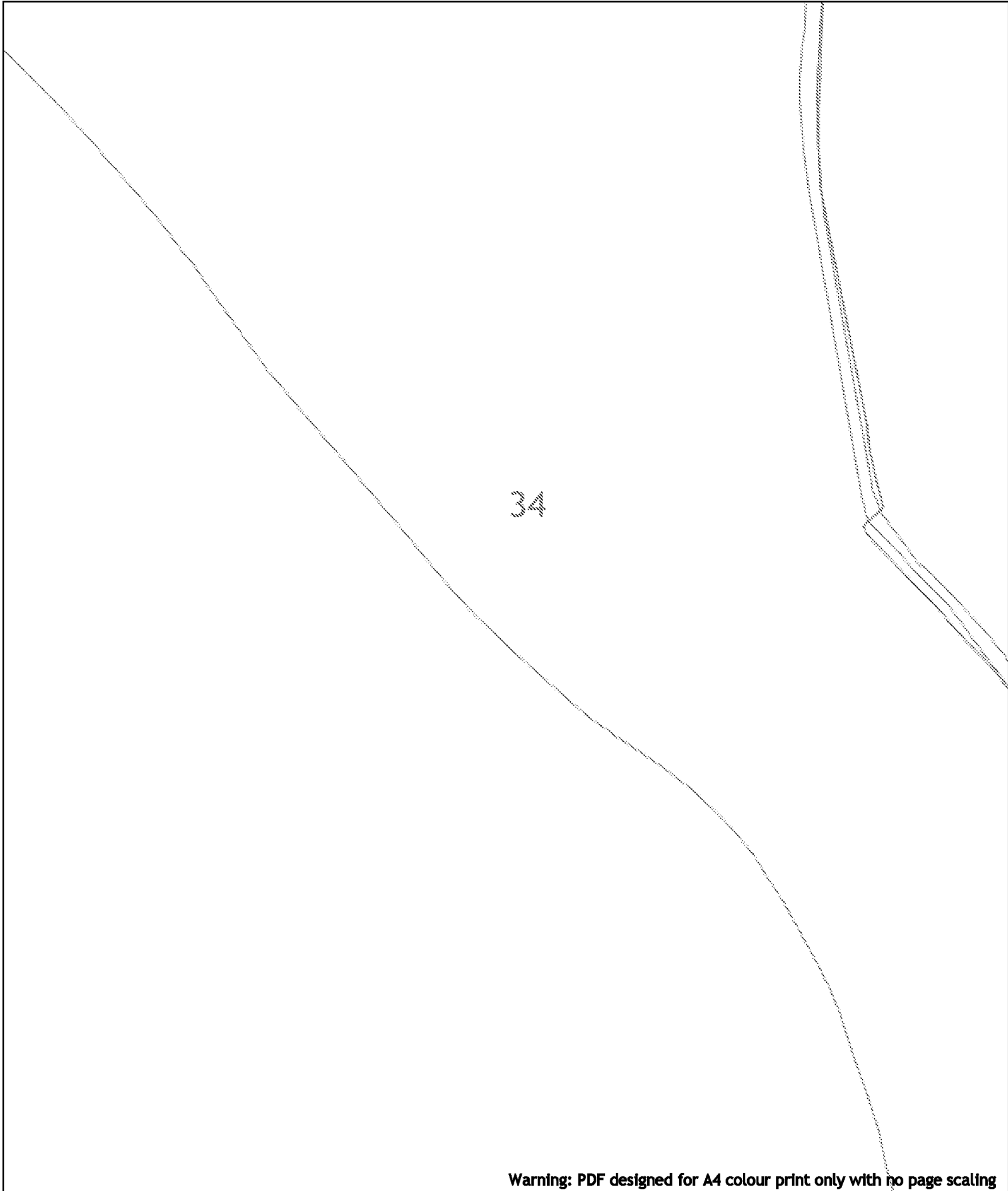
Cost Points

-  **Costs, Existing Location**

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When a structure becomes unusable after an event, the structure itself, that water must be withdrawn, to the surface each in a well depth of 1 meter. Its 17% of mud from the mud and taking them in a dredging machine (called a "dredge") should be considered either a non-renewable resource or a non-renewable resource.

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Job Reference: 29316491
Site Location: 494090 104774
Requested by: Mr Ben Evans

Your Scheme/Reference: LM
203277/SaP

| Voltages (V) | | | |
|--|------------------------|-------|-------|
| LV (Low Voltage) and Services | Up to 1,000V | | |
| HV (High Voltage) | Over 1,000V to 11,000V | | |
| EHV (Extra High Voltage) | 22,000V to 132,000V | | |
| Transmission | 275,000V and 400,000V | | |
| NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID | | | |
| Services | LV | HV | EHV |
| Footpath/unmade | 0.45m | 0.45m | 0.6m |
| Road Crossing | 0.6m | 0.6m | 0.75m |
| Agricultural | 1m | 1m | 1.1m |

LEGEND

..... Service Cable

..... 25 Mains

..... 2 - 230V

..... 66kV

..... 11kV

..... 22kV

..... 66kV

..... 132kV

..... 275kV

..... 400kV

..... 500kV

..... 765kV

Distribution Structures (Electrical)

..... Pole-erected structure

..... Pole structure, pole-top location - single

..... Pole structure, pole-top location - double

..... 120kV 140/200 200/200

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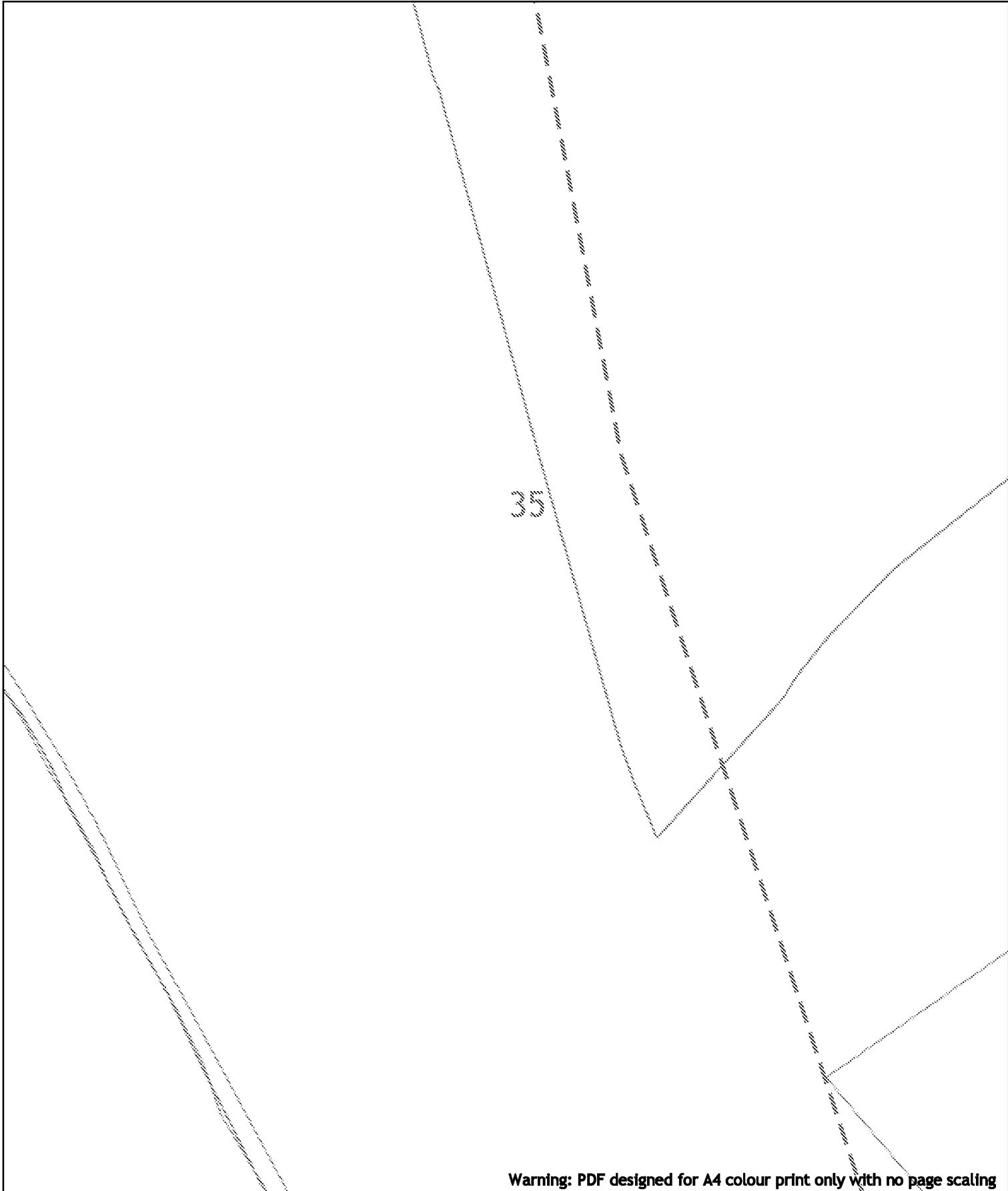
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Job Reference: 29316491

Site Location: 494090 104774

Requested by: Mr Ben Evans

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Scale: 1:500 (When plotted at A4)

Voltages (V)

LV (Low Voltage) and Services Up to 1,000V

HV (High Voltage) Over 1,000V to 11,000V

EHV (Extra High Voltage) 22,000V to 132,000V

Transmission 275,000V and 400,000V

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID

Services LV HV EHV

Footpath/unmade 0.45m 0.45m 0.6m 0.8m

Road Crossing 0.6m 0.6m 0.75m 0.9m

Agricultural 1m 1m 1m 1.1m

Legend

Proposed Cable

20 Meters

5 - 250V

600V

12kV

22kV

60kV

132kV

275kV

400kV

500kV

750kV

Reasoning

When a cable is laid in a trench or on a surface, the depth to the top of the cable must be measured, to the nearest millimetre, and depth of 1 metre for 11kV and 22kV cables from the ground and 1.1 metres for 132kV and 275kV cables. For cables in a trench, the depth to the top of the cable must be measured, to the nearest millimetre, and depth of 1 metre for 11kV and 22kV cables from the ground and 1.1 metres for 132kV and 275kV cables.

Distribution Structures (Electric)

Non-energised location

Public domain, energised location - single phase

Public domain, energised location - three phase

Gas Point

12000-140000 Voltage

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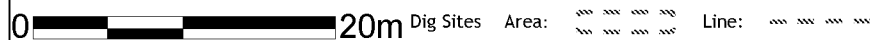
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 Scottish & Southern
Electricity Networks

Date Requested: 27/04/2023

Job Reference: 29316491

Site Location: 494090 104774

Requested by: Mr Ben Evans

Your Scheme/Reference: LM
203277/SaP

Scale: 1:500 (When plotted at A4)

| Voltages (V) | | | | |
|---|------------------------|-------|-------|------|
| LV (Low Voltage) and Services | Up to 1,000V | | | |
| HV (High Voltage) | Over 1,000V to 11,000V | | | |
| EHV (Extra High Voltage) | 22,000V to 132,000V | | | |
| Transmission | 275,000V and 400,000V | | | |
| NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID | | | | |
| | Services | LV | HV | EHV |
| Footpath/Unmade | 0.45m | 0.45m | 0.6m | 0.7m |
| Road Crossing | 0.6m | 0.6m | 0.75m | 0.7m |
| Agricultural | 1m | 1m | 1m | 1.1m |

[illegible]

~~~~~

When measuring beamwatermen stations in the station field, first water must be withdrawn to determine each station and depth of water. As 10' of water from the float and 10' of water from the float (10' of water from the float) should be considered water in the water.

**SOURCE:** U.S. DEPARTMENT OF COMMERCE, BUREAU OF ECONOMIC ANALYSIS; DATA FROM THE NATIONAL DEFENSE SCIENCE AND ENGINEERING SURVEY, 1970-1986.

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Job Reference: 29316491  
Site Location: 494090 104774  
Requested by: Mr Ben Evans

Your Scheme/Reference: LM  
203277/SaP

Scale: 1:500 (When plotted at A4)

Voltages (V)				
LV (Low Voltage) and Services	Up to 1,000V			
HV (High Voltage)	Over 1,000V to 11,000V			
EHV (Extra High Voltage)	22,000V to 132,000V			
Transmission	275,000V and 400,000V			
NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
	Services	LV	HV	EHV
Footpath/Unmade	0.45m	0.45m	0.6m	0.7m
Road Crossing	0.6m	0.6m	0.75m	0.7m
Agricultural	1m	1m	1m	1.1m

Legend
..... Service Cable
..... 25 MVA
..... 2 - 250V
..... 66kV
..... 11kV
..... 22kV
..... 66kV
..... 132kV
..... 275kV
..... 400kV
..... 500kV
..... 750kV

Disturbance Structures (Electrical)
..... Pole-erecting location
..... Pole structure, including location of base
..... Pole structure, including location of base

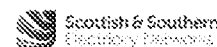


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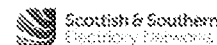
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When a structure becomes unusable after an event, the structure itself, that water must be withdrawn, to the surface each in a well depth of 1 meter. Its 17' 27" thick from the inside and taking thereon, building thereon from inside (also) should be considered either unnecessary or dangerous work.

When a structure is in the danger of being damaged, the structure will have to be removed and the structure will have to be removed. It is not possible to remove the structure.

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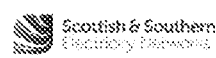
Scale: 1:500 (When plotted at A4)

When a structure becomes unusable after an event, the structure itself, that water must be withdrawn, to the surface each in a well depth of 1 meter. Its 17' 27" thick from the inside and taking them in building things from inside (also) should be considered either unimpaired or damaged work.

When a structure is in the danger of being damaged, the structure will have a structure that will be in the danger of being damaged, and the structure will be in the danger of being damaged.

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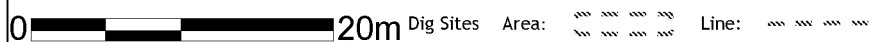
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Track

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 Scottish & Southern  
Electricity Networks

Date Requested: 27/04/2023  
Job Reference: 29316491  
Site Location: 494090 104774  
Requested by: Mr Ben Evans

Voltages (V)				
LV (Low Voltage) and Services	Up to 1,000V			
HV (High Voltage)	Over 1,000V to 11,000V			
EHV (Extra High Voltage)	22,000V to 132,000V			
Transmission	275,000V and 400,000V			
<b>NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID</b>				
	Services	LV	HV	EHV
Footpath/Unmade	0.45m	0.45m	0.6m	0.7m
Road Crossing	0.6m	0.6m	0.75m	0.7m
Agricultural	1m	1m	1m	1.1m

[illegible]

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Asset.Data@ssen.com  
 01256 337 294

Scale: 1:500 (When plotted at A4)

Notes: Interviews were semi-structured interviews. The structure of the interviews was flexible, but the topics were predetermined. The interviews were conducted in a semi-structured manner, with the interviewer asking a series of questions and following up on the responses. The interviews were conducted in a semi-structured manner, with the interviewer asking a series of questions and following up on the responses. The interviews were conducted in a semi-structured manner, with the interviewer asking a series of questions and following up on the responses.

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## Watch it!

### Safety advice brought to you by Scottish and Southern Electricity Networks Distribution (SSEN Distribution)

These notes are intended to help all those who have to work in the vicinity of electrical apparatus. Employers have a legal obligation to ensure that their operatives are fully instructed in the correct procedures.

**The Electricity at Work Regulations 1989** impose health and safety requirements upon employers, employees and self-employed persons with respect to electricity at work. The regulations impose restrictions on persons being engaged in work activities on or near live conductors.

**Regulation 14 requires that:** "No person shall be engaged in any work activity on or near any live conductor (other than one suitably covered with insulating material so as to prevent danger) that danger may arise unless:

- ♦ it is **unreasonable** in all circumstances for it to be dead; and
- ♦ it is **reasonable** in all circumstances for him to be at work on or near it while it is live; and
- ♦ suitable precautions (including where necessary the provision of suitable protective equipment) are taken to prevent injury."

The purpose of the regulations is to require precautions to be taken against the risk of death or personal injury from electricity in work activities.

### Publications

The Health and Safety Executive have produced a document entitled 'Avoiding Danger from Underground Services', and the Appendix 1 deals specifically with electric cables. Copies are available from the HSE's Accredited Agents and good booksellers, Ref. HS (G) 47.

Copies of Health and Safety Guidance note GS 6 relating to safe working in proximity to overhead lines, are available from the Health and Safety Executive's website - [www.hse.gov.uk](http://www.hse.gov.uk).

### Note

**In situations of emergency or danger, or where the advice contained in these notes cannot be followed, you must consult SSEN Distribution immediately. Tel. 0800 0727282 for southern England or 0800 300999 for Scotland.**

**Additional copies of these "Watch it!" leaflets can be obtained from our Asset Data Team office upon request. Tel. 01256 337294, or [asset.data@sse.com](mailto:asset.data@sse.com).**

You must read and accept the following safety notes as part of the contract to receive our network plans. You will have the option to print these and issue them to site staff.

### Watch it! - Working in the vicinity of underground cables

Our plans show the positions and normal depths for the buried cables and pipes at the time when they were installed. However, alterations to road alignments surface levels and buildings may have occurred subsequently without our knowledge. If you discover plant or cables that are not marked or incorrectly marked, then you are required to contact us as soon as possible to give us the opportunity to amend our plans.

These plans show the equipment owned by SSEN Distribution. There may be other privately owned plant in the area, which is outside of our control. You should always check with the Local Authority, National Grid Company, Department of the Environment, other Electricity Companies and other utilities before proceeding.

It is not intended that the issue of these plans will absolve either party from their obligation under any of the acts that control digging in the public highways.

### Supplies To Properties, etc.

The location of cables supplying individual properties, street lighting, traffic signs, telephone kiosks etc. are not always shown on the plans. You should assume that each property, streetlight etc. will have its own supply cable.

### Major Circuits

Where our plans indicate the presence of cables with a voltage exceeding 11,000 volts, you are advised to contact our local depot (telephone number is on the plans), before commencing any excavations within the vicinity of these cables. These major circuits form an extremely important link in SSEN Distributions' networks, damaging or modifying these circuits is a major and costly undertaking. Any development should therefore be designed to allow these circuits to remain undisturbed and accessible in their present location.

For your own and your workmates' safety, please follow the **do's** and **don'ts** listed below:

- ✓ **do** make sure you have plans of the underground cables in the area **before** any excavation work starts. Remember that some cables may not be shown on plans. If carrying out emergency work, excavate as though there are buried live cables in the vicinity.
- ✓ **do** use a cable locator to determine the position of existing cables in the work area. The positions should be marked and tests made as work proceeds. **If in doubt, get advice from your supervisor.**
- ✓ **do** ask for a cable to be made dead if it is buried in concrete.

- ✓ **do** backfill carefully, using stone-free soil around the cables, replacing marker-tapes and / or covers.
- ✓ **do** notify us immediately if you accidentally damage our cables. Arrange to keep people well clear of a cable that has been damaged until we have confirmed it has been made safe.
- ✓ **do** make sure before starting to demolish a building that all cables have been disconnected. We welcome prior notice of the intention to demolish buildings. This enables us to ensure that the site has been made safe electrically.
- ✓ **don't** operate a bulldozer, scraper, dragline or excavator; unless you are satisfied that there are no buried cables in the working area.
- ✓ **don't** use picks, pins, forks or pointed instruments in soft clay or soil when cables are present. Exercise extreme caution where such instruments are used to free lumps of stone, or break up firmly compacted ground. **Never** throw a fork or sharp instrument into the ground.
- ✓ **don't** dig trial holes over the indicated route of the cable. Excavate alongside instead.
- ✓ **don't** use exposed cables as a convenient step or handhold.
- ✓ **don't** handle or attempt to alter the position of any cable.

**Remember** that a damaged cable may cause extensive loss of supplies, make expensive repairs necessary and cause serious or even fatal injury.

If effective measures are not adopted to protect our equipment, we will take steps to recover the cost of any damage caused. Persons causing damage resulting in loss of supply to customers can be held legally responsible for any claims made by those customers. Promptness in reporting an incident will minimise costs.

In most cases it is not practicable to make cables dead without interrupting supplies to our customers. But given adequate notice, we will wherever possible, give advice regarding special precautions which may be necessary on any site where particular problems are likely to be encountered. The right is reserved to make a charge for this service.

Electricity cables can exist anywhere - under paths or roads, in gardens or driveways, on new housing or industrial development sites or even farmland.

### **Watch it! - Working in the vicinity of overhead lines**

For your own and your workmates' safety, please follow the **do's** and **don'ts** listed below

- ✓ **do** carefully note the position of all overhead lines before commencing work.
- ✓ **do** co-operate with us during planning and sitework stages.
- ✓ **do** follow the advice given in HSE Guidance Note GS 6 when siting barriers, goal posts, bunting etc.
- ✓ **do** keep overhead lines in view when moving scaffolding or machinery and take special care when felling or lopping trees.
- ✓ **do** remember that the raising or slewing of a crane or excavator jib may cause danger when operating near an overhead line.

- ✓ **do** avoid any machinery that is in contact with an overhead line until we confirm that conditions are safe.
- ✓ **do** warn others to keep well clear.
- ✓ **don't** drive a high vehicle below an overhead line when an alternative route is available.
- ✓ **don't** raise the bed of a tipper lorry beneath an overhead line or drive under the line with the body of the vehicle raised.
- ✓ **don't** steady any suspended load until you are satisfied that there is no danger from overhead lines.
- ✓ **don't** handle or use scaffold platforms, poles, pipes or ladders unless they are at a safe distance from overhead lines.
- ✓ **don't** transport long objects beneath overhead lines, unless they are carried in a horizontal position.
- ✓ **don't** approach or touch any broken or fallen overhead lines.

### **Always remember that:**

- Electricity can jump gaps.
- Contact or near contact with a crane jib, scaffold or ladder can cause a discharge of electricity with a risk of fatal or severe shock and burns to any person in the vicinity.

If effective measures are not adopted to protect our equipment, we will take steps to recover the cost of any damage caused. Persons causing damage resulting in loss of supply to customers can be held legally responsible for any claims made by those customers. Promptness in reporting an incident will minimise costs.

In most cases it is not practicable to make overhead lines dead without interrupting supplies to customers. However, provided adequate notice is given, then we will, whenever possible, give advice regarding special precautions which may be necessary on site where specific problems may be encountered. The right is reserved to make a charge for this service.

Scottish and Southern Electricity Networks is a trading name of: Scottish and Southern Energy Power Distribution Limited Registered in Scotland No. SC213459; Scottish Hydro Electric Transmission plc Registered in Scotland No. SC213461; Scottish Hydro Electric Power Distribution plc Registered in Scotland No. SC213460 (all having their Registered Offices at Inveralmond House 200 Dunkeld Road Perth PH1 3AQ); and Southern Electric Power Distribution plc Registered in England & Wales No. 04094290 having its Registered Office at No.1 Forbury Place 43 Forbury Road Reading RG1 3JH which are members of the SSE Group [www.ssen.co.uk](http://www.ssen.co.uk)

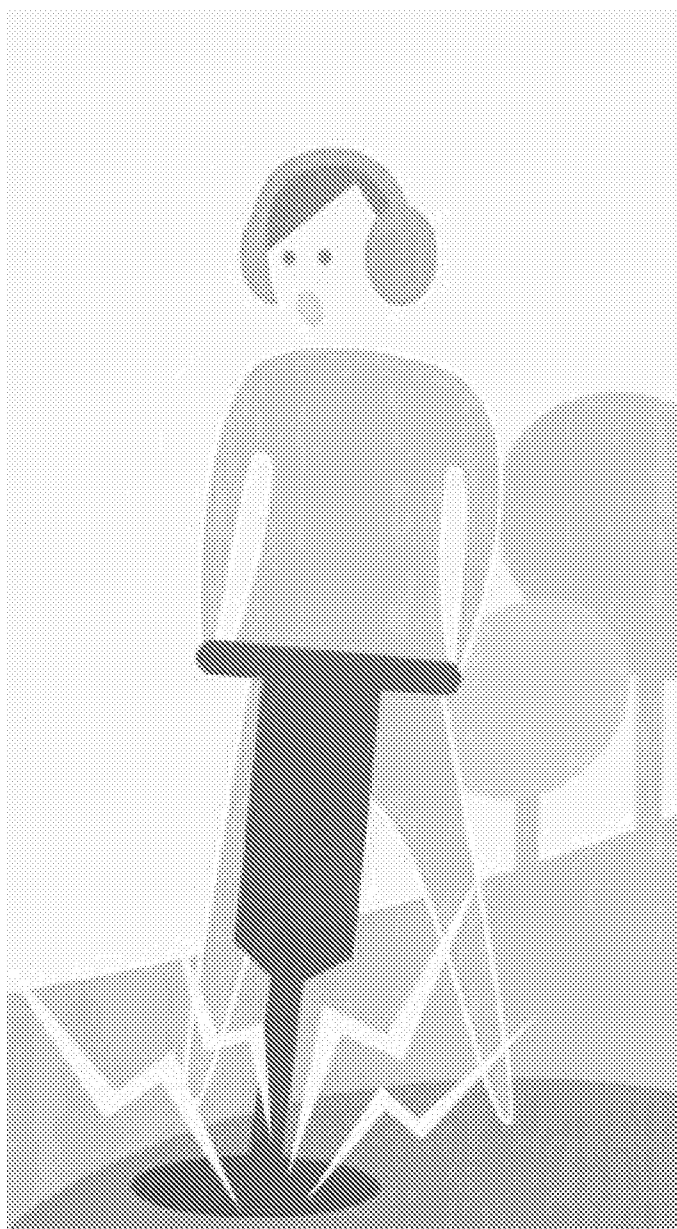


Scottish & Southern  
Electricity Networks

POWER CUT?  
CALL 105

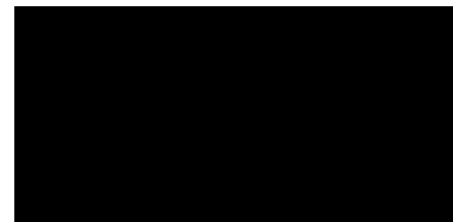


## GUIDE TO INTERPRETING MAINS RECORDS PLAN



Inveralmond House, 200 Dunkeld Road, Perth PH1 3AQ  [ssen.co.uk](http://ssen.co.uk)

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## **INTRODUCTION**

The Health & Safety Executive have produced a document entitled 'Avoiding danger from underground services'. Copies are available from HMSO's accredited agents and good booksellers, Ref HS(G)47, ISBN 0118854925.

**WHEN WORKING IN THE VICINITY OF ELECTRICITY CABLES AND OVERHEAD LINES PLEASE FOLLOW THE DO'S & DON'T'S LISTED BELOW.**

### **DO'S**

- Do** Make sure that you have plans of the cables in the area before any excavation work starts. Remember that some cables such as service cables may not be shown on the plans. Cables owned by other companies are not shown, e.g. local authorities, Department of the Environment, National Grid Co. etc.
- Do** Make sure that you understand the plans that have been supplied to you. For detailed explanation of the symbols used by Scottish & Southern Electricity Networks Distribution (SSEN Distribution) refer to this guide & the key shown on the plan
- Do** Use a cable avoidance tool (CAT) to determine the position of the existing cables in the work area. The positions should be clearly marked, and further tests made as work proceeds. **If in doubt, get advice from your supervisor.**
- Do** Hand dig trial holes over the indicated route of the cable, excavate alongside.
- Do** Ask for a cable to be made dead if it is buried in concrete. Please note that this is likely to be a costly process.
- Do** Watch for signs of cables as work progresses, such as marker tapes or cable covers which may be exposed.
- Do** Backfill carefully using stone free soil around cables, replacing marker tapes and covers.



- Do** Ensure that there is maximum clearance above all cable & joints.
- Do** Notify SSEN Distribution immediately should accidental damage to cables occur however large or small. Arrange to keep people well clear of the cable that has been damaged. Do not backfill an area where cable damage has occurred.

## **DON'T'S**

- Don't** Operate a bulldozer, scraper, dragline or excavator unless you are satisfied that there are no buried cables or overhead lines in the working area.
- Don't** Use picks, forks or pointed instruments in soft clay or soil where cables are present, exercise extreme caution where such instruments are used to free lumps of stone or to break up firmly compacted ground.
- Don't** Use exposed cables as a convenient step or handhold.
- Don't** Handle or attempt to alter the position of any cable.

**REMEMBER THAT A DAMAGED CABLE MAY CAUSE EXTENSIVE LOSS OF SUPPLIES, MAKE EXPENSIVE REPAIRS NECESSARY AND CAUSE SERIOUS OR EVEN FATAL INJURY.**

**IF IN DOUBT ASK SSEN DISTRIBUTION**



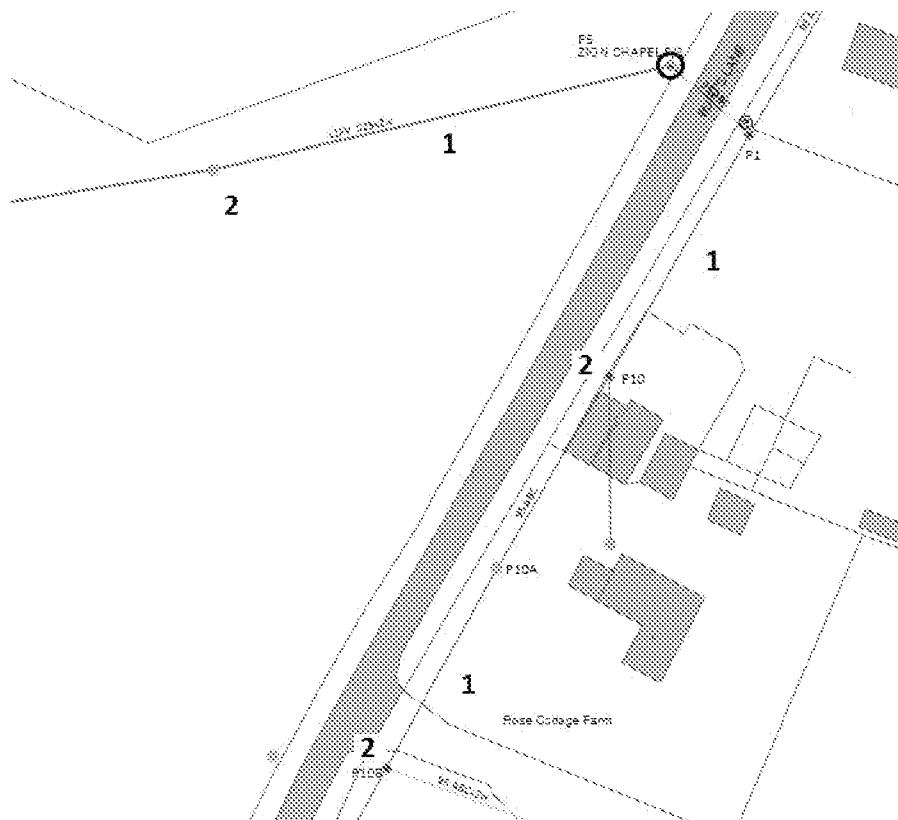
## UNDERSTANDING THE INFORMATION ON THE PLANS.

AVERAGE DEPTH OF CABLES:      Footpaths 0.6 metres  
                                                 Road Crossings 0.75metres

NB These depths are only approximate, depths may vary. It should also be noted that surface levels can change subsequent to the cables being laid.

**Mains records symbols definitions and examples:**

**A.      Overhead lines & Poles – These are depicted as follows:**



1. Overhead Line – These can be either High Voltage or Low Voltage, colour denotes voltage.
2. Poles.
3. Pole Mounted Transformer.



**B. Typical example of Low Voltage cable records:**

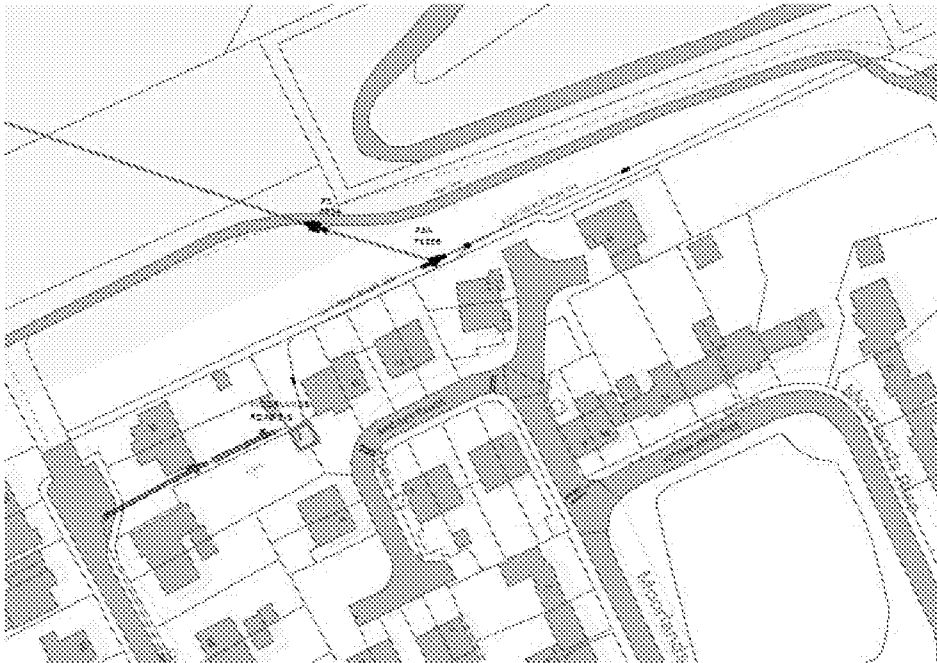


1. Sub Station
2. Low Voltage Underground cable.
3. Link Boxes: This is a box with a manhole cover marked as belonging to SSEN Distribution containing links. Either two or four cables will lead away from a link box.
4. Straight Joint: This is where two separate cables are joined together.
5. Breech Joint: This is where another cable is attached to the main.
6. Pot End: This is the end of the cable. In certain circumstances service cables to properties can be taken from the pot end. These services may not be shown on the plans.
7. Road crossing duct where a cable is routed under a path or road.
8. Cable terminations/Pole Box: Where underground cables are connected to overhead lines
9. Overhead line.
10. Street Lamps.

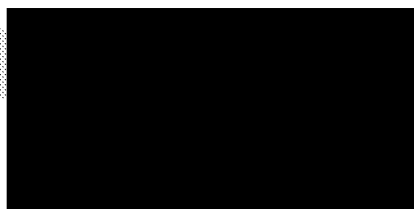


11. Services to properties: The service cable to an individual property are not always shown on the mains records that SSEN Distribution supply.  
In some cases, a service can be looped from an adjacent property.

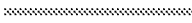
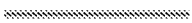
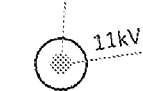
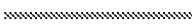
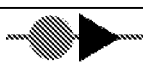
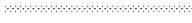
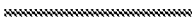
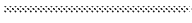
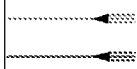
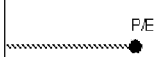
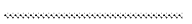
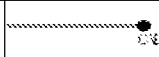
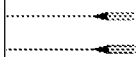
**C) Typical example of High Voltage cable record.**



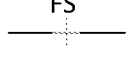
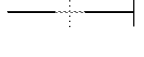
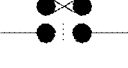
1. Sub Station
2. High Voltage Underground cable – Colour denotes voltage.
3. Straight Joint: This is where two separate cables are joined together.
4. Breech Joint: This is where another cable is attached to the main.
5. Cable terminations/Pole Box: Where underground cables are connected to overhead lines
6. Overhead Switch.



## SSEN DISTRIBUTION ELECTRIC SYMBOLS

Service cable		Single Poles	
LV Mains		H Poles	
LV Mains and Services (Split Phase)		3 Poles	
2-3.3kV		Tower	
6.6kV		Pole Mounted Transformer	
11kV		Circuit Breaker	
22kV		Switch Disconnecter/ OH Air Break	
33kV		Pole Box	
66kV		Straight Joint	
132kV		Mains Breech Joint (Tee)	
Fibre Optic		Service Breech Joint	
Pilot Cable		Trifurcating Joint	
Assumed Route		Pot End	
Out of Service		Capped End	
Ducting		Sealing End	



Service Connector Joint		Surge Diverters	
Overhead Connector		Pillar	
Wall Box Joint		Substation	
Flying Stay		Non Electrical Item	
Stay		Street Furniture	
PME Earth		LV Link Box	
Neutral Earth		LV Supply Point	
Pit		ASLs	
Other Network		Embedded Network	