

Utilities Statement
Stage C2
(Asset Information)
Stage C3
(Initial Design and Budget Cost Estimates)

**Gas Holder Site at Alexander
Turner Close, Reading**

**Prepared for
Danescroft (Kenavon Drive
Project Management) LLP
by**

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April 2019



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CONTENTS

SECTIONS

		PAGE
1.0	INTRODUCTION	1
2.0	GAS – SOUTHERN GAS NETWORK (SGN)	3
3.0	GAS: - GAS TRANSPORTATION COMPANY (GTC)	4
4.0	TELECOMMUNICATIONS: GAS TRANSPORTATION COMPANY	5
5.0	ELECTRIC: - GAS TRANSPORTATION COMPANY (GTC)	6
6.0	ELECTRIC: - NETWORK RAIL (NR)	7
7.0	CLEAN WATER – THAMES WATER UTILITIES (TWUL)	8
8.0	FOUL WATER – THAMES WATER UTILITIES (TWUL)	9
9.0	TELECOMMUNICATIONS: BT OPENREACH (BT)	10
10.0	GAS: SCOTTISH AND SOUTHERN ENERGY (SSE)	11
11.0	ELECTRIC: SCOTTISH AND SOUTHERN ENERGY	12
12.0	SUMMARY AND CONCLUSIONS	13



FIGURES

- Figure 1 Site Location Plan**
Figure 2 Development Proposals

APPENDICES

- Appendix A SGN GAS Maps and Communications**
Appendix B GTC GAS Maps and Communications
Appendix C GTC Telecommunications Maps and Communications
Appendix D GTC Electric Maps and Communications
Appendix E NR Electric Maps and Communications
Appendix F TW Clean Water Maps and Communications
Appendix G TW Foul Water Maps and Communications
Appendix H BT Telecommunications Maps and Communications
Appendix I SSE GAS Maps and Communications
Appendix J SSE Electric Maps and Communications



ACRONYMS AND ABBREVIATIONS

BT	BT Openreach
CI	Cast Iron
GTC	Gas Transportation Company
ha	Hectares
In	inches
IP	Intermediate Pressure
HV	High Voltage
LV	Low Voltage
m	Metres
OS	Ordnance Survey
PE	Polyethylene
POC	Point of connection
SGN	Southern Gas Networks
SI	Spun Iron
SSE	Scottish and Southern Energy
ST	Steel
SW	Southern Water
TWUL	Thames Water Utilities



1.0 INTRODUCTION

- 1.1 Stuart Michael Associates (SMA) Limited, consulting engineers, has prepared this Flood Risk Assessment and Drainage Statement (FRA&DS), hereafter referred to as the 'Report', on behalf of Danescroft (Kenavon Drive Project Management) LLP, hereafter referred to as the 'Client' for the Site known as Gas Works Site, Robert Parker Road, Reading, hereafter referred to as the 'Site'.
- 1.2 This report supports an outline planning application for 0.71 hectares of land for the development of 130 residential dwellings.

Location

- 1.3 The site is a former gas storage facility located approximately 1.5km east of Reading town centre. To the west of the site is the recent residential development on Robert Parker Road, developed by Bellway Homes. Network Rail land borders the northern boundary of the Site, and the Site is bound by the River Kennet to the south and east.
- 1.4 A location plan is presented as **Figure 1**.
- 1.5 Robert Parker Road provides access to Alexander Turner Close, the principal route though the recent development providing vehicle access to the site.

Development Proposals

- 1.6 It is proposed to develop the site to provide 130 dwellings.
- 1.7 A plan showing the development proposals is presented as **Figure 2**.

Scope of Report

- 1.8 Under the New Roads and Street Works Act 1991, utility companies are required to provide information as follows:
- C2 (preliminary enquiries) – The utility companies are required to supply information regarding the general position and nature of apparatus from their records and draw attention to any limitations in the quality of this information.



- C3 (initial design and budget estimates) – Requests for initial budget cost estimation are submitted to utility companies along with preliminary project designs. This includes the extent of the proposed works with potential diversion routes indicated for existing apparatus thought to be affected. The utility companies provide preliminary details of the effects on their apparatus (ie mitigation measures) and budget estimates of the measures (as assessed at preliminary design stage).
 - C4 (detailed design and estimates) – Requests for detailed estimates are submitted to utility companies along with final design details of the proposed project, working drawings and an outline programme. Stage C4 is a very important stage as it establishes in detail what the necessary utility mitigation measures are, who they are to be undertaken by and form the basis of the Official Works Order. The C4 detailed estimate also provides a benchmark for cost monitoring and final account reconciliation.
- 1.9 Between July 2018 and December 2018, utility providers in the area were contacted for stage C2 information to determine whether any assets would be affected by the development proposals.
- 1.10 In addition to stage C2 (asset information) requests, stage C3 (initial design and budget cost estimates) requests were also submitted to utility companies to develop initial project proposals regarding the protection, diversion, abandonment or reinforcement requirements for each utility at the site.
- 1.11 At the time of writing this report not all C3's had been provided.



2.0 GAS – SOUTHERN GAS NETWORK (SGN)

C2 – Asset Information

- 2.1 There is existing 3" PE & 24" CI low pressure SGN apparatus located within the site.
- 2.2 There are also existing 30" CI low pressure SGN apparatus located within Kennet Walk to the west of the Site.
- 2.3 A plan showing the location and route of SGN apparatus is included within **Appendix A.**

C3 - Initial design and budget cost estimates

- 2.4 SGN have been contacted and will not be giving a budget quote as GTC is in the area.
- 2.5 SGN have also announced that they are decommissioning the unused gas storage facilities and therefore are not going to charge us for a C3 quote. They will update us as this proceeds.



3.0 GAS: - GAS TRANSPORTATION COMPANY (GTC)

C2 – Asset Information

- 3.1 GTC has a network of 125mm PE Low Pressure gas pipelines along Alexander Turner Close connecting to Robert Parker Road to the west of the site. This network connects into the SGN's gas network.
- 3.2 It is expected that the Site will be served by the low pressure gas provided by GTC apparatus located within Alexander Turner Close, subject to sufficient capacity and approval by GTC.
- 3.3 A plan showing the location and route of GTC apparatus is included within **Appendix B**.

C3 - Initial design and budget cost estimates

- 3.4 GTC were contacted to establish whether there would be any diversions to their network but have requested a letter of authority to proceed.



4.0 TELECOMMUNICATIONS: - GAS TRANSPORTATION COMPANY (GTC)

C2 – Asset Information

- 4.1 GTC has a network of fibre along Alexander Turner Close connecting to Robert Parker Road to the west of the site.
- 4.2 It is expected that the Site will be served by fibre provided by GTC apparatus located within Alexander Turner Close, subject to sufficient apparatus and approval by GTC.
- 4.3 A plan showing the location and route of GTC apparatus is included within **Appendix C.**

C3 - Initial design and budget cost estimates

- 4.4 GTC were contacted to establish whether there would be any diversions to their network but have requested a letter of authority to proceed.



5.0 ELECTRIC: - GAS TRANSPORTATION COMPANY (GTC)

C2 – Asset Information

- 5.1 GTC has a network of 95mm LVWF low voltage along Alexander Turner Close connecting to Robert Parker Road to the west of the site.
- 5.2 It is expected that the Site will be served by electric provided by GTC apparatus located within Alexander Turner Close, subject to sufficient apparatus and approval by GTC.
- 5.3 A plan showing the location and route of GTC apparatus is included within **Appendix D**.

C3 - Initial design and budget cost estimates

- 5.4 GTC were contacted to establish whether there would be any diversions to their network but have requested a letter of authority to proceed.



6.0 ELECTRIC: - NETWORK RAIL (NR)

C2 – Asset Information

- 6.1 NR has a network of electric cables to the north of the site. These run alongside the railway.
- 6.2 It is not expected that the Site will be served by NR electric apparatus.
- 6.3 A plan showing the location and route of NR apparatus is included within **Appendix E**.



7.0 CLEAN WATER – THAMES WATER UTILITIES (TWUL)

C2 – Asset Information

- 7.1 Copies of the TWUL asset record plans and all communications with TWUL are reproduced at **Appendix F**.
- 7.2 TWUL apparatus is located within the vicinity of the site; within Robert Parker Road and Alexander Turner Close to the West.
- 7.3 125mm pipes are located within both Robert Parker Road and Alexander Turner Close.

C3 - Initial design and budget cost estimates

- 7.4 Thames Water have indicated a charge of £18,620.00 inc VAT for water infrastructure charges to serve the development.



8.0 FOUL WATER – THAMES WATER UTILITIES (TWUL)

C2 – Asset Information

8.1 Copies of the TWUL Asset Record Plans and any communications with TWUL are reproduced at **Appendix G**.

8.2 TWUL has foul water assets within Kennet walk to the west of the site.

C3 - Initial design and budget cost estimates

8.3 Thames Water have indicated a charge of £26,670.00 inc VAT for foul infrastructure charges to serve the development.



9.0 TELECOMMUNICATIONS: BT OPENREACH (BT)

- 9.1 A copy of the BT Asset Record Plans and any communications with BT are reproduced at **Appendix H**.

C2 – Asset Information

- 9.2 BT Openreach apparatus is located within the vicinity of the site; within Robert Parker Road and Kennet Walk to the west of the site. These include both underground cables. BT also has apparatus within the site itself.
- 9.3 The Site was registered on BT's online portal for new sites on 8th October, in order to obtain the relevant approval and connection quotation.

C3 - Initial design and budget cost estimates

- 9.4 BT has been contacted regarding their C3 budget quote to cover any necessary network reinforcements and protection works. BT requested a payment of £1,483.02 including VAT on 10th August 2018 to provide a quote.



10.0 GAS: SCOTTISH AND SOUTHERN ENERGY (SSE)

- 10.1 A copy of the SSE Asset Record Plans and any communications with SSE are reproduced at **Appendix I**.

C2 – Asset Information

- 10.2 Existing SSE 90 PE gas apparatus is located to the west of the Site. These pipes provide gas to houses along Kennet Walk.

C3 - Initial design and budget cost estimates

- 10.3 It is anticipated that the site will not be provided with gas from SSE.
- 10.4 No diversions will be needed for existing SSE gas utilities.



11.0 ELECTRIC: SCOTTISH AND SOUTHERN ENERGY

- 11.1 A copy of the SSE Asset Record Plans and any communications with SSE are reproduced at **Appendix J**

C2 – Asset Information

- 11.2 SSE 11kv HV DSWA cables are located within the site. They then run north along the River Kennet.

C3 - Initial design and budget cost estimates

- 11.3 SSE has provided their C3 budget cost and have confirmed there is no impact from the proposed development.



12.0 SUMMARY AND CONCLUSIONS

- 12.1 The preliminary enquiries placed with the key Utility providers (water, power, gas, and telecommunications) confirm that the Site is conveniently located in proximity to the existing mains networks.
- 12.2 SGN has low pressure gas pipes within the Site, low pressure pipes are also located within Kennet Walk to the west of the Site. However, it is expected that the Site will be served by the low pressure gas provided by GTC.
- 12.3 GTC has a network of low pressure gas mains to the west of the site. It is expected the site will be served by this supply.
- 12.4 GTC has a network of fibre in Alexander Turner Close connecting into Robert Parker Road. It is expected GTC will provide fibre to the site.
- 12.5 GTC has a network of low voltage along Alexander Close connecting into Robert Parker Road. It is expected the site will be served by this supply.
- 12.6 Network Rail has electric cables located on the railway to the north of the site. Diversionary works will not be required.
- 12.7 Thames Water have clean water apparatus located within vicinity of the site, within Robert Parker Road and Alexander Turner Close. Thames Water have quoted £18,620.00 Inc VAT to serve the development.
- 12.8 Thames Water also have Foul Water assets within Kennet Walk. They have quoted a charge of £27,930.00 Inc VAT to serve the development.
- 12.9 BT Openreach apparatus is located within Robert Parker Lane to the west of the Site, and Kennet walk.
- 12.10 BT requested a payment of £1,483.02 including VAT on 10th August 2018 to carry out their detailed design.
- 12.11 SSE have existing gas apparats to the west of the site supplying houses within Kennet Walk. These will not need any diverting.
- 12.12 SSE also have electric cables within the site. These run north along the River Kennet and will not need any diverting.

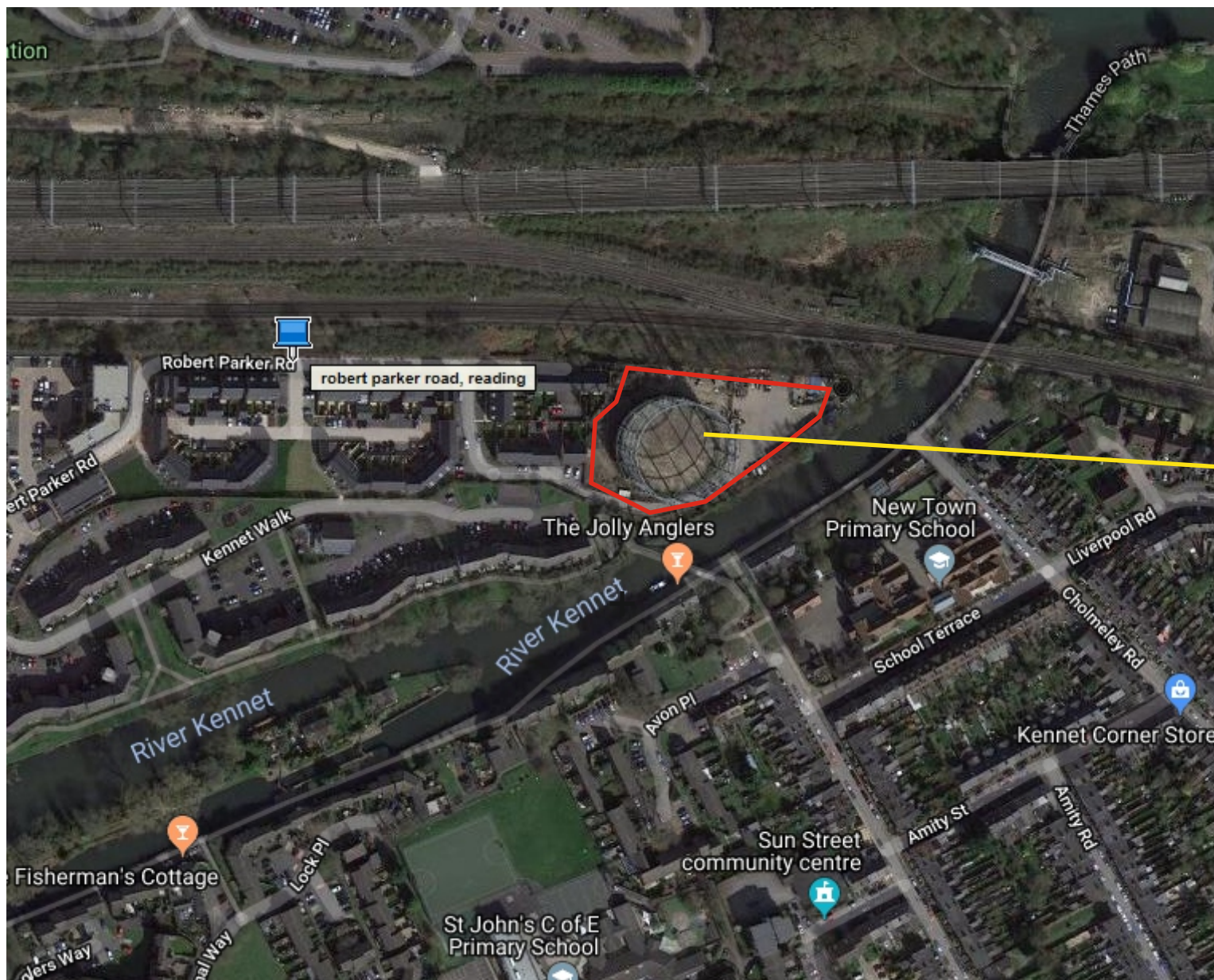


Figure 1

Site Location Plan



Notes:
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472904, 173681

JOB TITLE

**Robert Parker Road,
Reading**

DRAWING TITLE

**Location Plan
(Ordnance Survey)**

FIGURE NO.

Figure 1

SCALE:

nts

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Figure 2

Development Proposals



NOTES

- Do not scale from this drawing

- Check all dimensions on site

- Subject to site inspection

- This document is for information only and is subject to a preliminary risk analysis to be carried out by all relevant consultants

AREAS

- Refer to area schedule

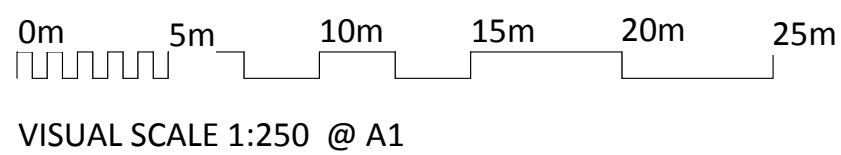
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Rev	Notes	Date	By	Auth
A	Layouts amended	18/04/18	LK	RC
B	Layouts amended - pre-app meeting 1	04/05/18	LK	RC
C	Layouts amended - DSE meeting	20/06/18	LK	RC
D	Layouts amended - pre-app meeting 2	19/07/18	LK	RC
E	Layouts amended	17/08/18	LK	RC
F	Layouts amended - meeting with Councillors	26/09/18	LK	RC
G	Layouts amended - pre-app meeting 3	04/10/18	LK	RC
H	Layouts amended post DTM	31/10/18	LK	RC

NOTES

Any decisions to be made on the basis of this drawing, whether as to project viability, pre-letting, lease agreements and the like, should make allowance for:

- Design development
- Accurate surveys
- Accurate boundary/site ownership documentation
- Construction methods and building tolerances
- Local Authority/Statutory consents



- 1B2P
- 2B3P WCH
- 2B4P
- 2B4P duplex
- 3B5P
- 3B5P House

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Date: 25/07/17
Drawn By: LK
Checked by: RC
Scale @ A1: 1 : 250
Scale @ A3: 1 : 500
CAD File No:

Danescroft (KDPM) LLP
SGN, Reading
Proposed Plan - Ground Floor

PRELIMINARY
16035

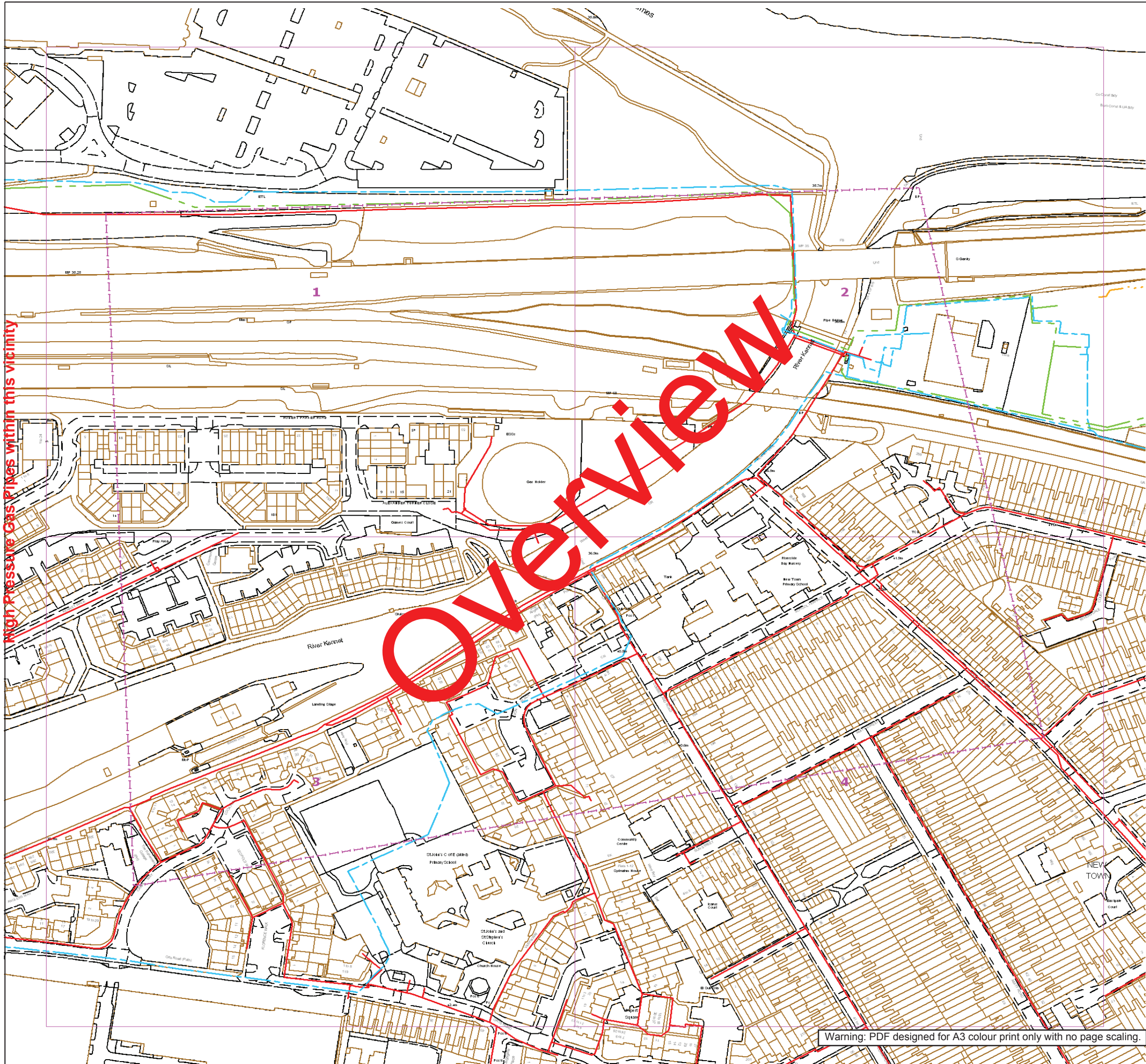
SK-100

H
Revision



Appendix A

SGN Asset Plans and Decommissioning Email



Contact Us

Mapping Enquiries:
All areas

General Enquiries:
All areas

Date Requested: 02/07/2018
Job Reference: 13181671
Site Location: 472919 173652
Requested by:
Mrs Evi Giakoumi
Your Scheme/Reference:
5757

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

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

Low Pressure Mains
Medium Pressure Mains
Intermediate Pressure Mains
High Pressure Mains

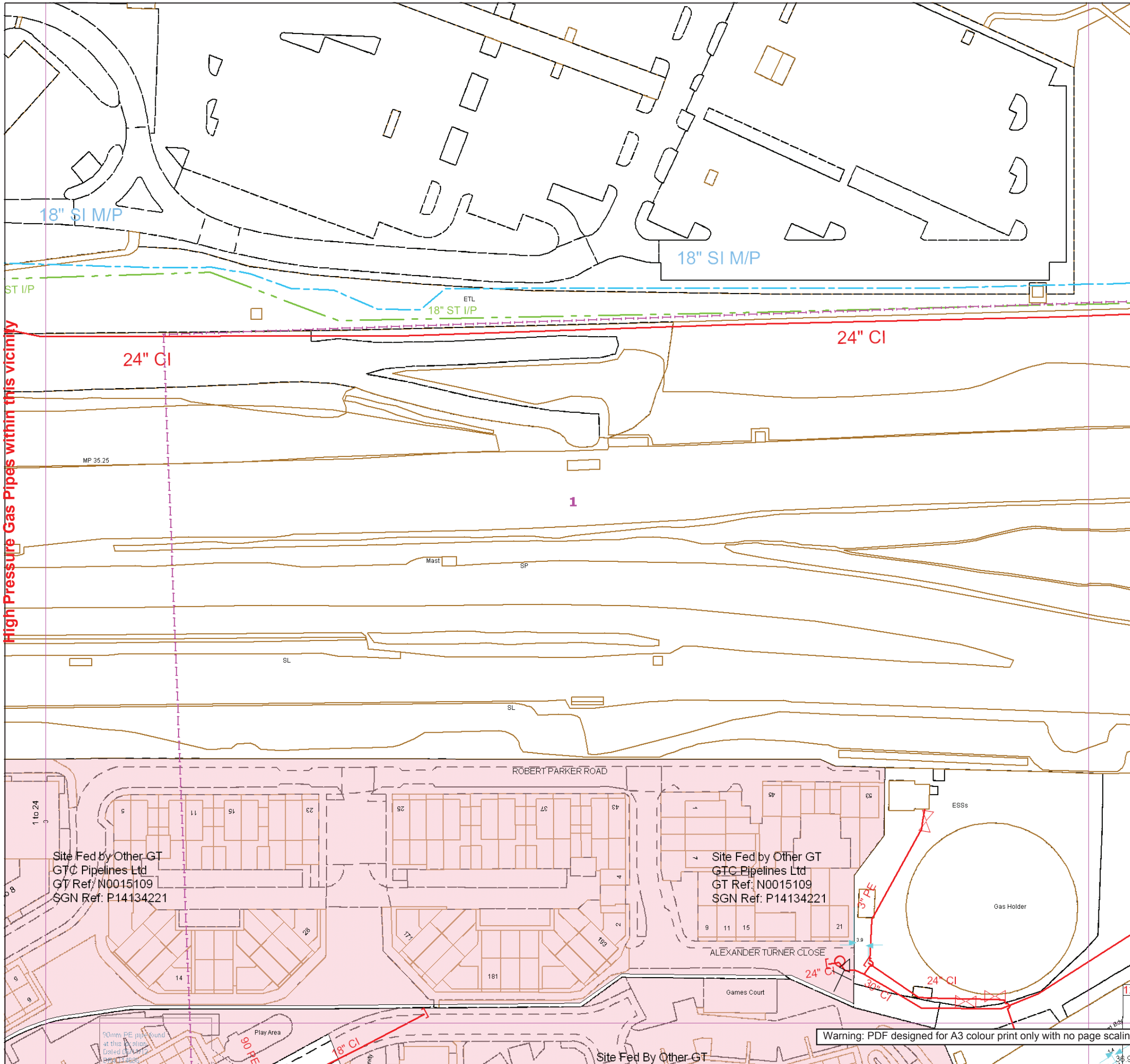
LAs
GTs
SSSIs

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

Digsite: Line: Area:



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Contact Us
Mapping Enquiries:
All areas

General Enquiries:
All areas

Date Requested: 02/07/2018
Job Reference: 13181671
Site Location: 472919 173652
Requested by:
Mrs Evi Giakoumi
Your Scheme/Reference:
5757
Exact Scales:
1:1000 Area or Circle dig site
1:1000 Line dig site

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

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

Low Pressure Mains
Medium Pressure Mains
Intermediate Pressure Mains
High Pressure Mains

LA's
GT's

SSSIs

Some Examples Of Plant Items

Valve Syphon Depth of Cover Diameter Change Material Change

Digsite: Line: Area:



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Scott Collis

From: Vandepeer, Dean <Dean.Vandepeer@sgn.co.uk>
Sent: 28 February 2019 09:47
To: Scott Collis
Subject: FW: 5757 - diversion/protection budget quote request reading holder station.

Good morning Scott.

Thank you for taking my call. As explained SGN has been tasked by OFGEM to decommission and clear all the disused gas holder sites. Reading holder station is due to start end of next month. With the decommissioning of all the gas mains and the demolition of the holder its self. This project is due to last 18 months – 2yrs. I could give you a budget quote to clear the site of gas but due to network restrictions outside of the site it will not be fully clear. Also the holder itself will remain until SGN can have it dismantled. I also deem this to be rather “unsporting” to charge your client money for this when SGN have already set aside a budget to complete the task at hand. I will keep you updated on the progress of these works if you so wish.

Regards,

Dean Vandepeer
Network Officer (Diversions)

T: +44 (0)1689881335

M: +44 (0)7583005421

E: Dean.vandepeer@sgn.co.uk

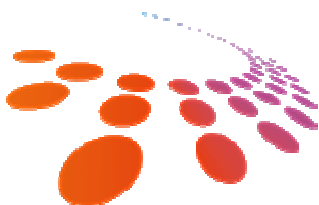
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sgn.co.uk

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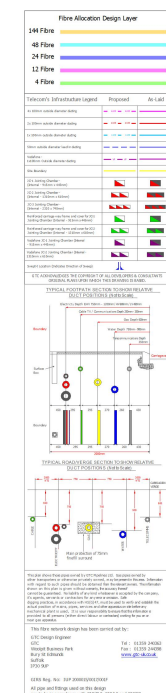
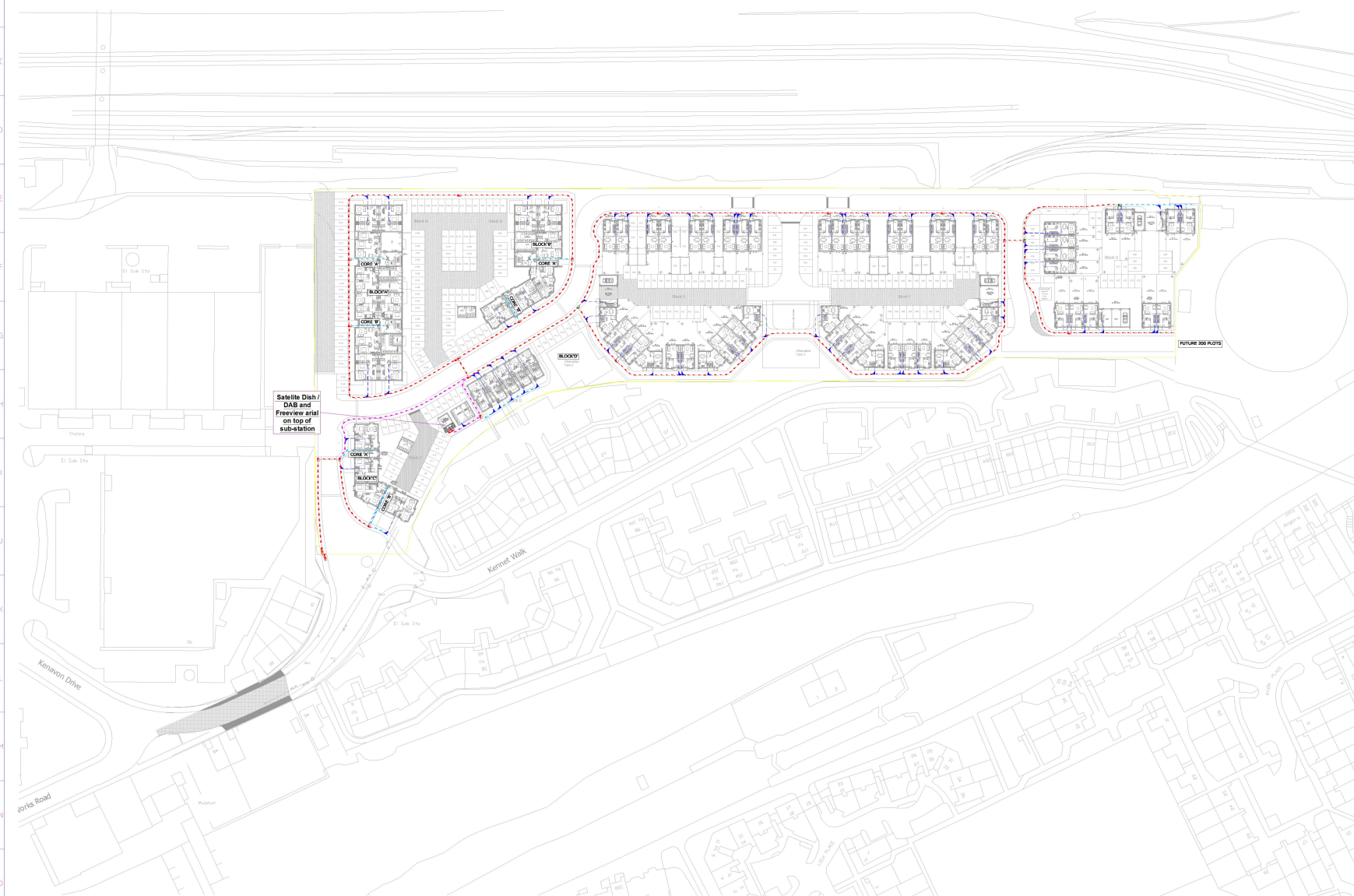
Appendix B

GTC Gas Asset Plans

Rev	Revision Notes	Date	Drawn by	Approved
1-0	Original drawing	04/11/14	SC	SR
1-1	Redesign Block A, Lift stairs and Whoom added	20/04/16	PC	MR



APPROVED FOR
CONSTRUCTION



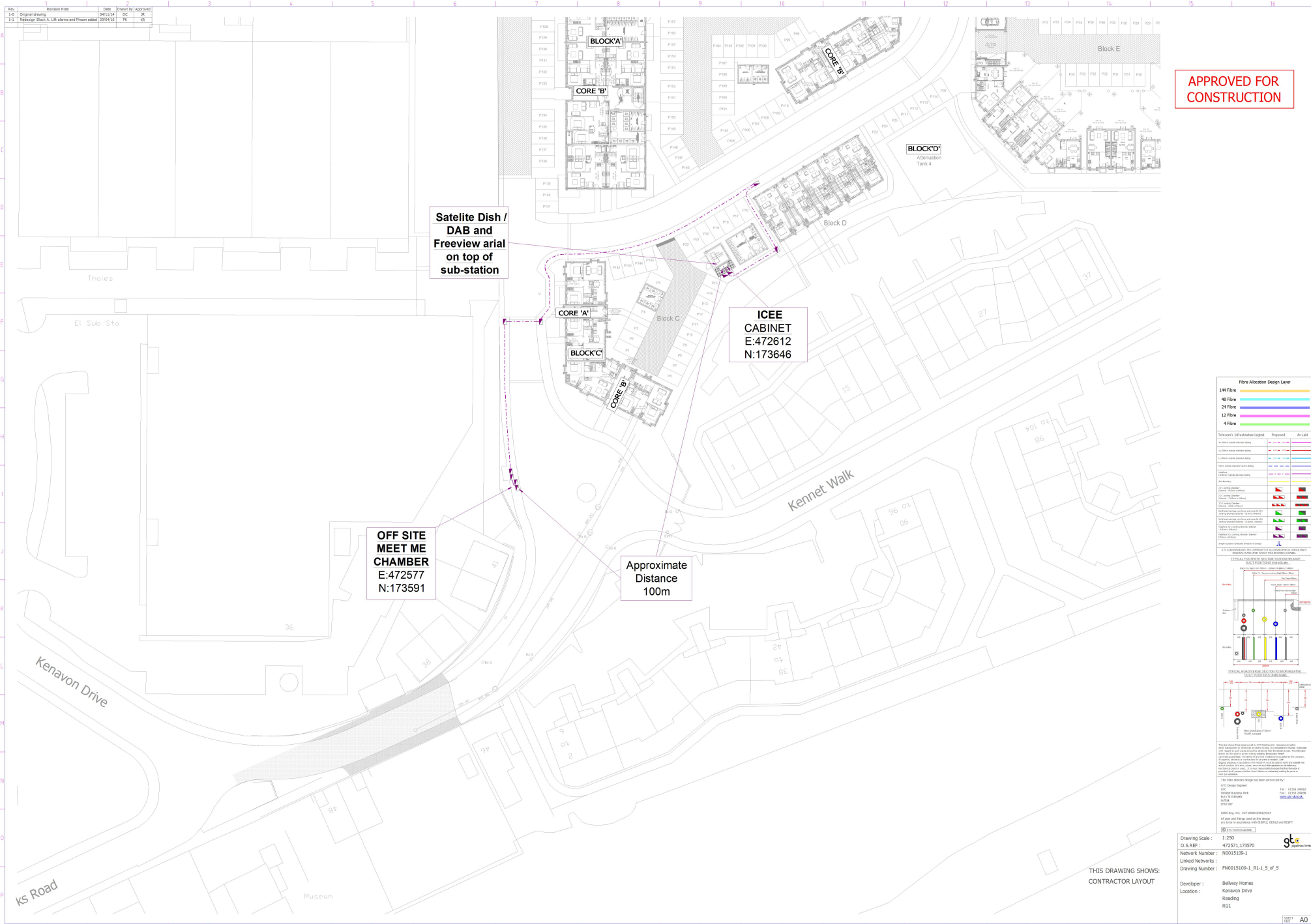
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THIS DRAWING SHOWS:
DEVELOPER LAYOUT

Drawing Scale : 1:500
O.S. REF : 472571,173570
Network Number : N0015109-1
Linked Networks : N0015109-1, R0-1,2,3,4,5
Drawing Number : F00015109-1, R0-1,2,3,4,5
Developer : Bellway Homes
Location : Kanewon Drive, Reading, RG1

GTC Plant Enquiry. Our Ref 896018, Your Ref 5757 generated for sc@stuartmichael.co.uk at 04/02/2019 14:11:13. This drawing is reproduced from our records archive at the time of enquiry.

GTC Plant Enquiry. Our Ref 896018, Your Ref 5757 generated for sc@stuartmichael.co.uk at 04/02/2019 14:11:15. This drawing is reproduced from our records archive at the time of enquiry.





Appendix C

GTC Telecommunications Asset Plans

Plot	MSDB2UP Phase	MSDB2UP Floor
3	BK	0
7	BR	1
8	GY	1
11	BK	2
12	BR	2
15	GY	3
LL 3 7-8 11-12 15	BK	0

Min 750mm

Tile tape

150mm

min 300mm

3 x 125mm RIGIDUCT

N0015109 MSDB3RJ RG1 3FL		
Plot	Phase	Floor
89	BK	0
90	BR	0
93	GK	1
94	GK	1
95	BR	1
96	GK	1
97	BR	1
100	BK	2
101	GK	2
102	BK	2
103	BK	2
104	GK	2
107	BK	3
108	BR	3
109	GK	3
110	BK	3
111	BR	3
114	GK	4
115	GK	4
116	GK	4
117	GK	4
187-117	BK	0

N0015109 MSDB2US RG1 3FG		
MSDB Details	MSDB2US	
Plot	Phase	Floor
120	BK	0
121	BK	0
122	GY	0
123	BK	0
124	GY	1
125	GY	1
126	BK	1
127	BR	1
128	GY	1
129	BK	2
130	BR	2
131	GY	2
132	BK	2
133	BR	2
134	GY	2
135	BK	3
136	BR	3
137	GY	3
138	BK	3
139	BR	3
140	GY	3
141	BK	4
142	BR	4
143	GY	4
144	BK	4
145	BR	4
146	GY	4
147	BK	5
148	BR	5
149	GY	5
150	BK	5
151	BR	5
152	GY	5
LL 120-152	BK	0

POC Details

Name:	
Capacity (kVA):	
DNO ref:	
Voltage:	11kV
Volt drop (%):	None
ELI: (mΩ)	None
Conn type:	Straight joint

MSDB Details	MSDB2UQ	Floor
Plot	Phase	
5	BK	1
6	BR	1
9	GY	2
10	BK	2
13	BR	3
14	GY	3
LL 5-6 9-10 13-14	BK	0

POC Details	
Name:	
Capacity (kVA):	
DNO ref:	
Voltage:	11kV
Volt drop (%):	None
ELI: (mΩ)	None
Conn type:	Straight joint

MSDB Details	MSDB2UT	Floor
153	BK	0
156	BR	0
157	GY	1
158	BK	1
159	BR	1
160	GY	1
161	BK	1

MSDB Details			MSDB3RK		
Plot			Phase		Floor
98			BK		1
99			BR		1
105			GY		2
106			BK		2
112			BR		3
113			GY		3
LL 98-99	105-106	112-113			0

N0015109 Sub_RG1 3FA		
Substation Details		
Way	Cable	Fuse (A)
1	95mm	315
2	185mm	255
3	95mm	315
4	95mm	500

Name:	
Number:	
Ownership:	
Transformer size (kVA):	800
LV cabinet:	4-way
CT ratio:	
TLF size (A):	
Security assess:	
Environ assess:	
Building type:	StandardBrickBuilt
RMU:	
Intake RMU #1:	

BLOCK B CORE A FLATS LAYOUT PLOTS
98-99,105-106,112-113
 All LSOH cable connecting to meters in communal cupboards on each floor will be **35mm² single phase (SNE)**.

THIRD FLOOR
 PLOTS 13-14

SECOND FLOOR
 PLOTS 9-10

FIRST FLOOR
 J1+10 WAY MSDB,
 PLOTS 5-6

GROUND FLOOR
 1 x 3ø L/L

70mm² Earth wire

31 MSDB

95mm² LWLF

3ø L/L

HDCC 200A

BLOCK C CORE B FLATS LAYOUT PLOTS
98-99,105-106,112-113
All LSOH cable connecting to meters in
communal cupboards on each floor will be
35mm² single phase (SNF).

N0015109_E5 RG1 3FG

**BLOCK A CORE B FLATS LAYOUT PLOTS
153, 156-192**

**All LSOH cable connecting to meters in
communal cupboards on each floor will be
35mm² single phase (SNE).**

FIFTH FLOOR
PLOTS 147-152

FOURTH FLOOR
J1+15 WAY MSDB
PLOTS 141-146

THIRD FLOOR
PLOTS 135-140

SECOND FLOOR
PLOTS 129-134

FIRST FLOOR
PLOTS 123-128

GROUND FLOOR
J2+24 WAY MSDB
1 x 3ϕ L/L, PLOTS 120-122

70mm² Earth wire

95mm² 3c+5OH

J1 MSDB

J2 MSDB

95mm² LVWF

BLOCK A CORE A, FLATS LAYOUT PLOTS 153, 156-192 All LSOH cable connecting to meters in communal cupboards on each floor will be 35mm² single phase (SNE).	
SIXTH FLOOR PLOTS 187-192	
FIFTH FLOOR PLOTS 181-186	
FOURTH FLOOR J1+24 WAY MSDB PLOTS 175-180	
THIRD FLOOR PLOTS 169-174	
SECOND FLOOR PLOTS 163-168	
FIRST FLOOR PLOTS 157-162	
GROUND FLOOR J2+24 WAY MSDB 1 x 3φ I/L, PLOTS 153, 156	70mm ² Earth wire 95mm ² 3pL-LSOH 95mm ² LWLF J2 MSDB

BLOCK B CORE A FLATS LAYOUT PLOTS
87-97,100-104,107-111,114-117
All LSOH cable connecting to meters in
communal cupboards on each floor will be
35mm² single phase (SNE).

BLOCK B CORE B FLATS LAYOUT PLOTS
98-99,105-106,112-113
All LSOH cable connecting to meters in communal cupboards on each floor will be 35mm² single phase (SNE).

THIRD FLOOR
PLOTS 112-113

SECOND FLOOR
PLOTS 105-106

FIRST FLOOR
J1+10 WAY MSD8,
PLOTS 98-99

GROUND FLOOR
1 x 3φ L/L

70mm² Earth wire

11 MSD8

95mm²

3φ LVWF

HDCC 200A

95mm² LVWF

CONTAMINATED SITE:
SITE REMEDIATION PLAN HAS BEEN CONFIRMED.
CONSTRUCTION OF MAINS AND SERVICES NOT TO PROGRESS UNTIL
SITE REMEDIATION CONFIRMED COMPLETE BY GTC PROJECT
MANAGER ONSITE.

This design is across multiple drawings for details please refer to all drawings

Electric Notes

All electric mains, services and ducts that shall contain electric cables, must be overlaid with electric identifiable marker tape 240mm beneath the finished surface. Electric mains & services should have a minimum of 250mm clearance from other utilities.

Backfill specification

Directly buried cables should be surrounded by cable sand installed to BS 11319 - Aggregate size of 0/2mm to CAT 4. A 75mm layer should be placed at the bottom of the trench and a further 75mm above the top of the cable.

Ducting Specification

- Ducting should be black twin walled corrugated rigidduct and should conform to ENATS 12/24
- Ducting should be used when taking cables across roads and into buildings
- Ducts are shown on the drawing as a thick black line
- Only one cable is allowed per duct

Electric Cable	Min. Duct Inside Diameter
Single Phase	52mm
3 Phase LV	150mm
HV	150mm

Service Sizes

All service cables to properties are single phase 35mm² Al Cable terminated in 100 amp out cut (except where specified).

Phase Identification

For new colour conversion mains, the connected phases will be shown as BR, GY (Where BR = brown (red) / BK = black (yellow) / GR = grey (blue).

Material Specification

All cables, equipment and construction method on this network are to be accordance with GS1 documentation.

Excavation Carried Out by BUUK

The trenches highlighted in blue will be excavated and reinstated by BU contractors, the excavation and reinstatement of the other trench will be the responsibility of the customer.

Plan Notes

This plan shows apparatus owned by the BUUK Group. Any third party apparatus indicated on these drawings is shown for indicative purposes only. The information shown on this plan is given without warranty, the accuracy cannot be guaranteed. No liability of any kind whatsoever is accepted by the company. Safe digging practices, in accordance with H53/G47, must be used to verify and establish the actual position of apparatus. This plan is reproduced by the permission of Ordnance Survey on behalf of HMSO. © Crown copyright and Database right 2007. All rights reserved Ordnance Survey Licence number 0100021063.

Developers Responsibility

When apparatus have been laid it becomes the responsibility of the developer to ensure it is suitably protected, therefore backfilling should be carried out as soon as possible. Replacement and repair of damaged apparatus, including administrative costs will be fully recharged to the developer. It will be the developer's responsibility to recover the costs from the third parties.

Revision Notes

For a revision history of this network design please see separate revision history document.

Last Edit By:

Last Approved By:

OS Ref:

Location:

Developer/Client:

Drawing Number/Title:

Network Number:

Project Number:

Scale:

Sheet Size:

Revision:

at the time of enquiry.

Please see appendix for stamps

10-01-2019

This drawing is a preliminary drawing for design purposes only. It is not to be used for construction purposes.

Notes:

All dimensions are given in metres unless otherwise stated. Dimensions are given to the nearest millimetre.

Scale: 1:1000

Author: [Name]

Check: [Name]

Drawn: [Name]

Project: [Name]

Location: [Name]

Client: [Name]

Contract: [Name]

Revision: [Name]

Comments: [Name]

Drawn: [Name]

Check: [Name]

Drawn: [Name]

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Check: [Name]

N0015109_E4 RG1 3FA

POC Details
Name:
Capacity (kVA):
DNO ref:
Voltage: 11kV
Volt drop (%): None
ELI (mΩ): None
Conn type: Straight joint

N0015109 RG1 3FA

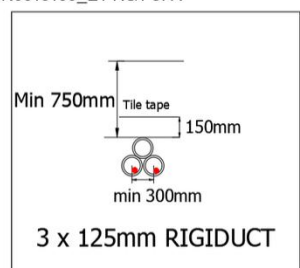
POC Details
Name:
Capacity (kVA):
DNO ref:
Voltage: 11kV
Volt drop (%): None
ELI (mΩ): None
Conn type: Straight joint

N0015109 Sub RG1 3FA

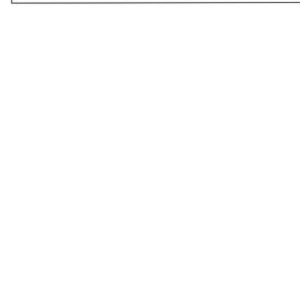
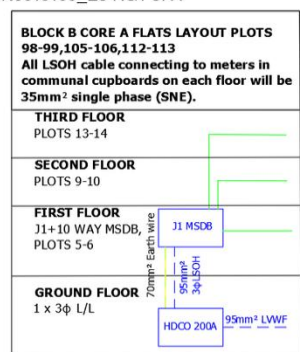
Way	Cable	Fuse (A)
1	95mm	315
2	95mm	250
3	95mm	315
4	95mm	500

Name:
Number:
Ownership:
Transformer size (kVA): 800
LV cabinet:
CT ratio:
TLF size (A):
Security assess:
Environ assess:
Building type: StandardBrickBuilt
RMU:
Intake RMU #1:

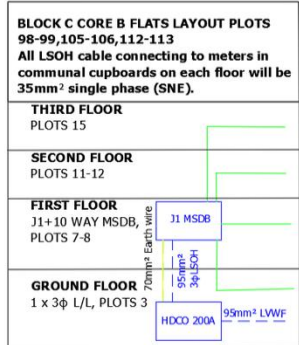
N0015109_E1 RG1 3FA



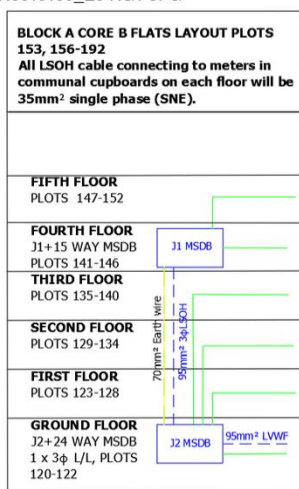
N0015109_E3 RG1 3FA



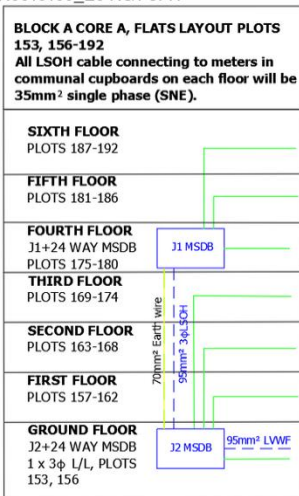
N0015109_E4 RG1 3FA



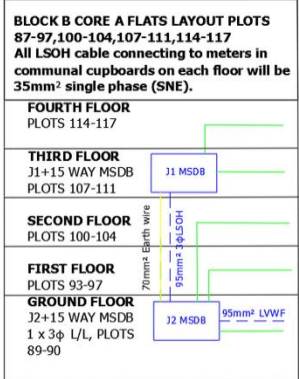
N0015109_E5 RG1 3FG



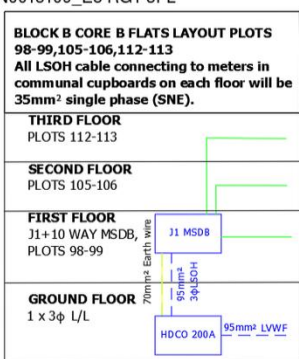
N0015109_E6 RG1 3FH



N0015109_E7 RG1 3FL



N0015109_E8 RG1 3FL



CONTAMINATED SITE:
SITE REMEDIATION PLAN HAS BEEN CONFIRMED.
CONSTRUCTION OF MAINS AND SERVICES NOT TO PROGRESS UNTIL
SITE REMEDIATION CONFIRMED COMPLETE BY GTC PROJECT
MANAGER ON SITE.

This design is across multiple drawings for details please refer to all drawings
Electric Notes
All electric mains, services and ducts that shall contain electric cables, must be overlaid with electric identifiable marker tape 240mm beneath the finished surface. Electric mains and services should have a minimum of 250mm clearance from other utilities.
Backfill specification
Directly buried cables should be surrounded by cable sand installed to BS EN 13139 - Aggregate size of 0/2mm to CAT 4. A 75mm layer should be placed on the bottom of the trench and a further 75mm above the top of the cable.

Ducting Specification
• Ducting should be black twin walled corrugated rigididuct and should conform to ENATS 1224
• Ducting should be used when taking cables across roads and into buildings
• Ducts are shown on the drawing as a thick black line
• Only one cable is allowed per duct

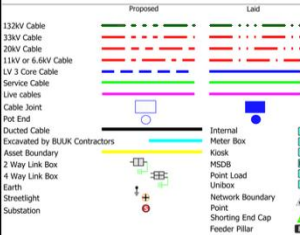
Electric Cable	Min. Duct Inside Diameter
Single Phase	32mm
3 Phase LV	50mm
HT	100mm

Service Sizes
All service cables to properties are single phase 35mm² Al Cable terminated in 100 amp cut out (except where specified).

Phase Identification
For new colour convention mains, the connected phases will be shown as BR, BK, GY Where BR = brown (red) / BK = black (yellow) / GY = grey (blue).

Material Specification
All cables, equipment and construction method on this network are to be in accordance with GSI documentation.

Excavation Carried Out by BUUK
The trench highlighted in blue will be excavated and reinstated by BUUK contractors, the excavation and reinstatement of the other trench will be the responsibility of the customer.



Plan Notes
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Developers Responsibility
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Revision Notes
For a revision history of this network design please see separate revision history document.

Last Edit By:
Last Approved By:

OS Ref:

Location:

Developer/Client:

Drawing Number/Title:

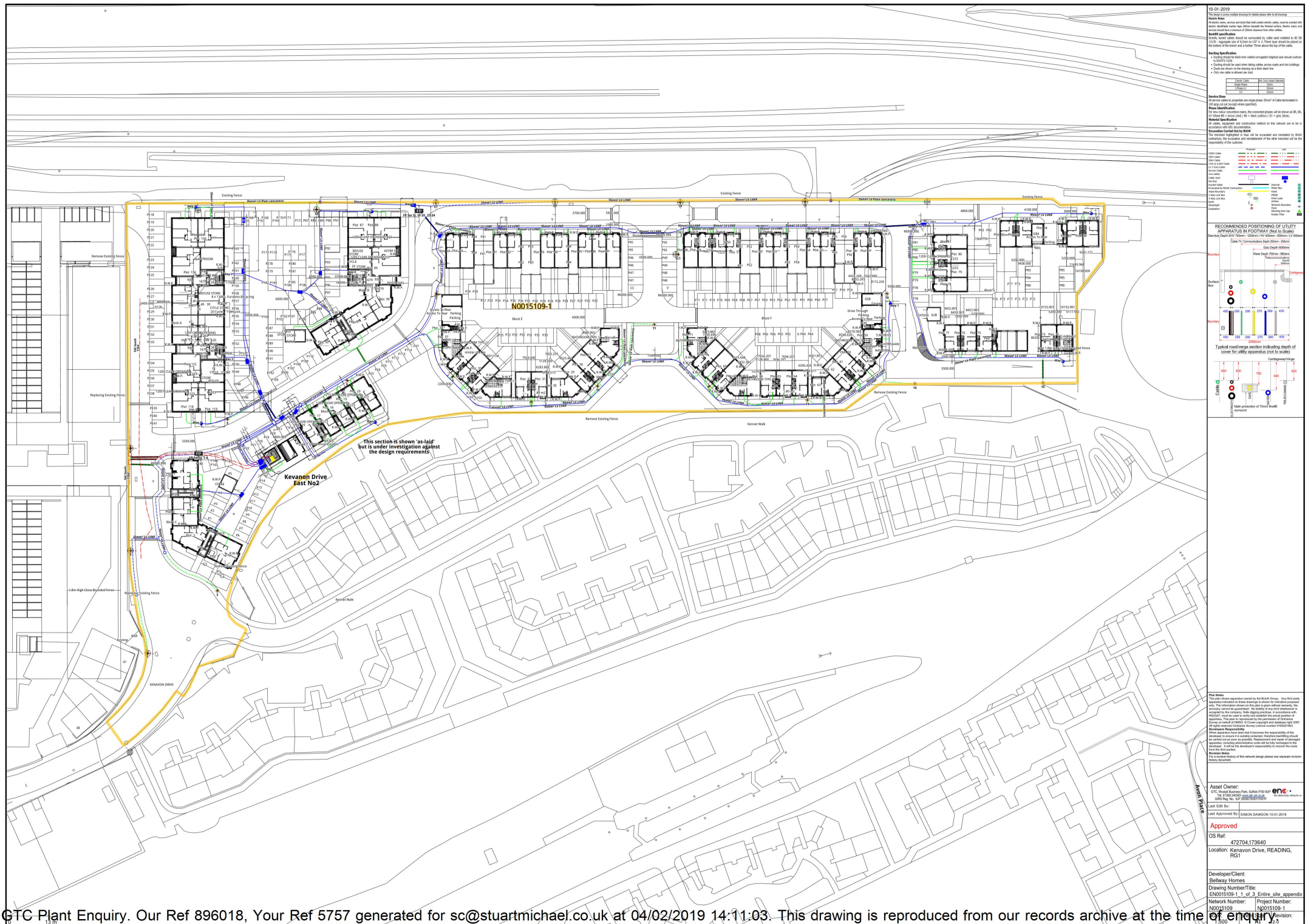
Network Number: Project Number:

Scale: Sheet Size: Revision:



Appendix D

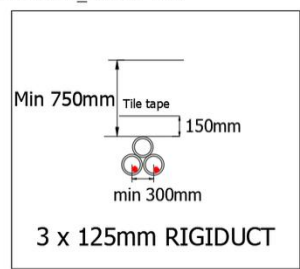
GTC Electric Asset Plans



N0015109_MSDB2UP RG1 3FA

Plot	Phase	Floor
3	BK	0
7	BR	0
8	GY	0
11	BK	0
12	BR	0
15	GY	0
LL 3-7-8-11-12-15	BK	0

N0015109_E1 RG1 3FA



N0015109_MSDB3RJ RG1 3FL

Plot	Phase	Floor
89	BK	0
90	BR	0
93	GY	0
94	BK	0
95	BR	0
96	GY	0
97	BK	0
100	BR	0
101	GY	0
102	BK	0
103	BR	0
104	GY	0
107	BK	0
108	BR	0
109	GY	0
110	BK	0
111	BR	0
114	GY	0
115	BK	0
116	BR	0
117	GY	0
LL 87-117	BK	0

N0015109_MSDB2US RG1 3FG

Plot	Phase	Floor
120	BK	0
121	BR	0
122	GY	0
123	BK	0
124	BR	0
125	GY	0
126	BK	0
127	BR	0
128	GY	0
129	BK	0
130	BR	0
131	GY	0
132	BK	0
133	BR	0
134	GY	0
135	BK	0
136	BR	0
137	GY	0
138	BK	0
139	BR	0
140	GY	0
141	BK	0
142	BR	0
143	GY	0
144	BK	0
145	BR	0
146	GY	0
147	BK	0
148	BR	0
149	GY	0
150	BK	0
151	BR	0
152	GY	0
LL 120-152	BK	0

N0015109 RG1 3FA

POC Details

Name:
Capacity (kVA):
DNO ref:
Voltage: 11kV
Volt drop (%): None
ELI: (mΩ) None
Conn type: Straight joint

N0015109_MSDB2UQ RG1 3FA

Plot	Phase	Floor
5	BK	1
6	BR	1
9	GY	1
10	BK	1
13	BR	1
14	GY	1
LL 5-6-9-10-13-14	BK	1

N0015109 RG1 3FA

POC Details

Name:
Capacity (kVA):
DNO ref:
Voltage: 11kV
Volt drop (%): None
ELI: (mΩ) None
Conn type: Straight joint

N0015109_MSDB2UT RG1 3FH

Plot	Phase	Floor
153	BK	0
156	BR	0
157	GY	0
158	BK	0
159	BR	0
160	GY	0
161	BK	0
162	BR	0
163	GY	0
164	BK	0
165	BR	0
166	GY	0
167	BK	0
168	BR	0
169	GY	0
170	BK	0
171	BR	0
172	GY	0
173	BK	0
174	BR	0
175	GY	0
176	BK	0
177	BR	0
178	GY	0
179	BK	0
180	BR	0
181	GY	0
182	BK	0
183	BR	0
184	GY	0
185	BK	0
186	BR	0
187	GY	0
188	BK	0
189	BR	0
190	GY	0
191	BK	0
192	BR	0
LL 153-156-192	GY	0

N0015109_MSDB3RK RG1 3FL

Plot	Phase	Floor
89	BK	1
90	BR	1
93	GY	1
94	BK	1
95	BR	1
96	GY	1
97	BK	1
100	BR	1
101	GY	1
102	BK	1
103	BR	1
104	GY	1
107	BK	1
108	BR	1
109	GY	1
110	BK	1
111	BR	1
114	GY	1
115	BK	1
116	BR	1
117	GY	1
LL 98-99-105-106-110-113	BK	1

N0015109_Sub RG1 3FA

Substation Details

Way	Cable	Fuse (A)
1	95mm	315
2	185mm	255
3	95mm	315
4	95mm	500

Name:
Number:
Ownership:
Transformer size (kVA): 800
LV cabinet:
CT ratio:
TF size (A):
Security assess:
Environ assess:
Building type:
RMU:
Intake RMU #1:

StandardBrickBuilt

N0015109_E3 RG1 3FA

POC Details

Name:
Capacity (kVA):
DNO ref:
Voltage: 11kV
Volt drop (%): None
ELI: (mΩ) None
Conn type: Straight joint

N0015109_E3 RG1 3FA

POC Details

Name:
Capacity (kVA):
DNO ref:
Voltage: 11kV
Volt drop (%): None
ELI: (mΩ) None
Conn type: Straight joint

N0015109_E3 RG1 3FA

POC Details

Name:
Capacity (kVA):
DNO ref:
Voltage: 11kV
Volt drop (%): None
ELI: (mΩ) None
Conn type: Straight joint

N0015109_E3 RG1 3FA

POC Details

Name:
Capacity (kVA):
DNO ref:
Voltage: 11kV
Volt drop (%): None
ELI: (mΩ) None
Conn type: Straight joint

N0015109_E3 RG1 3FA

POC Details

Name:
Capacity (kVA):
DNO ref:
Voltage: 11kV
Volt drop (%): None
ELI: (mΩ) None
Conn type: Straight joint

N0015109_E3 RG1 3FA

POC Details

Name:
Capacity (kVA):
DNO ref:
Voltage: 11kV
Volt drop (%): None
ELI: (mΩ) None
Conn type: Straight joint

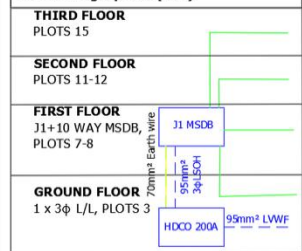
N0015109_E3 RG1 3FA

POC Details

Name:
Capacity (kVA):
DNO ref:
Voltage: 11kV
Volt drop (%): None
ELI: (mΩ) None
Conn type: Straight joint

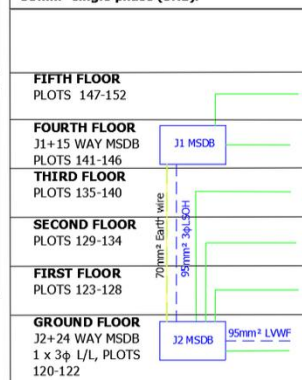
N0015109_E4 RG1 3FA

BLOCK C CORE B FLATS LAYOUT PLOTS 98-99,105-106,112-113
All LSOH cable connecting to meters in communal cupboards on each floor will be 35mm² single phase (SNE).



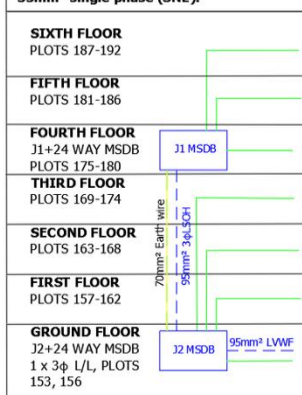
N0015109_E5 RG1 3FG

BLOCK A CORE B FLATS LAYOUT PLOTS 153, 156-192
All LSOH cable connecting to meters in communal cupboards on each floor will be 35mm² single phase (SNE).



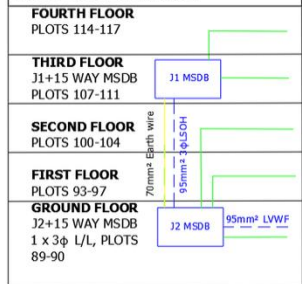
N0015109_E6 RG1 3FH

BLOCK A CORE A, FLATS LAYOUT PLOTS 153, 156-192
All LSOH cable connecting to meters in communal cupboards on each floor will be 35mm² single phase (SNE).



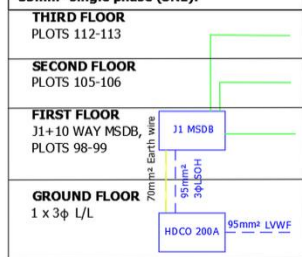
N0015109_E7 RG1 3FL

BLOCK B CORE A FLATS LAYOUT PLOTS 87-97,100-104,107-111,114-117
All LSOH cable connecting to meters in communal cupboards on each floor will be 35mm² single phase (SNE).



N0015109_E8 RG1 3FL

BLOCK B CORE B FLATS LAYOUT PLOTS 98-99,105-106,112-113
All LSOH cable connecting to meters in communal cupboards on each floor will be 35mm² single phase (SNE).



CONTAMINATED SITE:
SITE REMEDIATION PLAN HAS BEEN CONFIRMED.
CONSTRUCTION OF MAINS AND SERVICES NOT TO PROCEED UNTIL
SITE REMEDIATION CONFIRMED COMPLETE BY GTC PROJECT
MANAGER ON SITE.

This design is across multiple drawings for details please refer to all drawings

Electric Notes
All electric mains, services and ducts that shall contain electric cables, must be overlaid with electric identifiable marker tape 240mm beneath the finished surface. Electric mains and services should have a minimum of 250mm clearance from other utilities.

Backfill specification
Directly buried cables should be surrounded by cable sand installed to BS EN 13139 - Aggregate size of 0/2mm to CAT 4. A 75mm layer should be placed on the bottom of the trench and a further 75mm above the top of the cable.

Ducting Specification
• Ducting should be black twin walled corrugated rigidduct and should conform to ENATS 1224
• Ducting should be used when taking cables across roads and into buildings
• Ducts are shown on the drawing as a thick black line
• Only one cable is allowed per duct

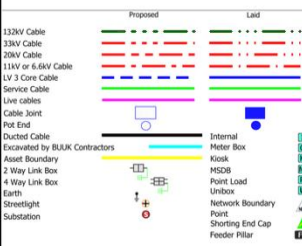
Electric Cable	Min. Duct Inside Diameter
Single Phase	32mm
3 Phase LV	50mm
HT	100mm

Service Sizes
All service cables to properties are single phase 35mm² Al Cable terminated in 100 amp cut out (except where specified).

Phase Identification
For new colour convention mains, the connected phases will be shown as BR, BK, GY Where BR = brown (red) / BK = black (yellow) / GY = grey (blue).

Material Specification
All cables, equipment and construction method on this network are to be in accordance with GSI documentation.

Excavation Carried Out by BUUK
The trench highlighted in blue will be excavated and reinstated by BUUK contractors, the excavation and reinstatement of the other trench will be the responsibility of the customer.



Plan Notes
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Revision Notes
For a revision history of this network design please see separate revision history document.

Last Edit By:

Last Approved By:

OS Ref:

Location:

Developer/Client:

Drawing Number/Title:

Network Number: Project Number:

Scale: Sheet Size: Revision:

N0015109_E4 RG1 3FA

POC Details
Name:
Capacity (kVA):
DNO ref:
Voltage: 11kV
Volt drop (%): None
ELI (mΩ): None
Conn type: Straight joint

N0015109 RG1 3FA

POC Details
Name:
Capacity (kVA):
DNO ref:
Voltage: 11kV
Volt drop (%): None
ELI (mΩ): None
Conn type: Straight joint

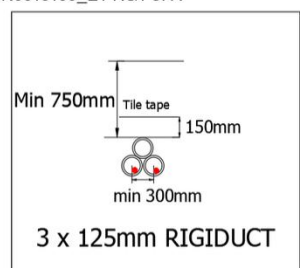
N0015109 Sub RG1 3FA

Way	Cable	Fuse (A)
1	95mm	315
2	95mm	250
3	95mm	315
4	95mm	500

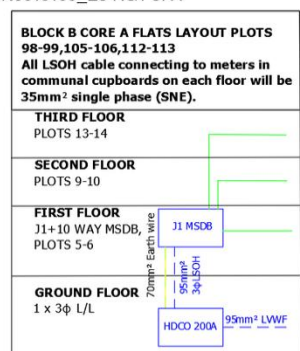
Name:
Number:
Ownership:
Transformer size (kVA): 800
LV cabinet:
CT ratio:
TLF size (A):
Security assess:
Environ assess:
Building type:
RMU:
Intake RMU #1:

StandardBrickBuilt

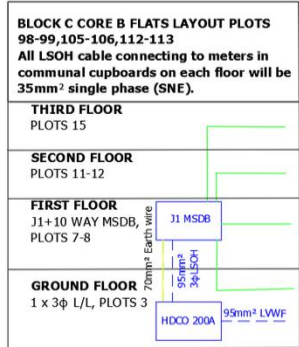
N0015109_E1 RG1 3FA



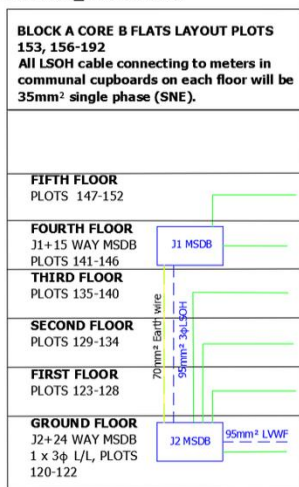
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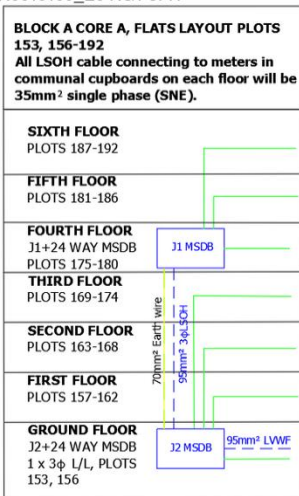
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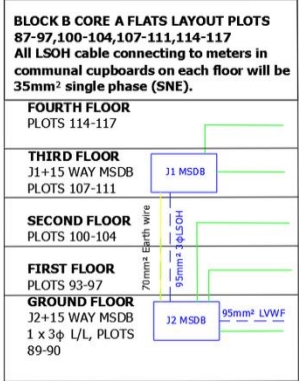
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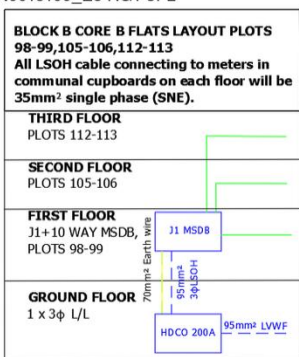
N0015109_E6 RG1 3FH



N0015109_E7 RG1 3FL



N0015109_E8 RG1 3FL



CONTAMINATED SITE:
SITE REMEDIATION PLAN HAS BEEN CONFIRMED.
CONSTRUCTION OF MAINS AND SERVICES NOT TO PROGRESS UNTIL
SITE REMEDIATION CONFIRMED COMPLETE BY GTC PROJECT
MANAGER ON SITE.

This design is across multiple drawings for details please refer to all drawings
Electric Notes
All electric mains, services and ducts that shall contain electric cables, must be overlaid with electric identifiable marker tape 240mm beneath the finished surface. Electric mains and services should have a minimum of 250mm clearance from other utilities.
Backfill specification
Directly buried cables should be surrounded by cable sand installed to BS EN 13139 - Aggregate size of 0/2mm to CAT 4. A 75mm layer should be placed on the bottom of the trench and a further 75mm above the top of the cable.

Ducting Specification
• Ducting should be black twin walled corrugated rigididuct and should conform to ENATS 1224
• Ducting should be used when taking cables across roads and into buildings
• Ducts are shown on the drawing as a thick black line
• Only one cable is allowed per duct

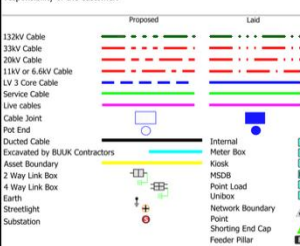
Electric Cable	Min. Duct Inside Diameter
Single Phase	32mm
3 Phase LV	50mm
HT	100mm

Service Sizes
All service cables to properties are single phase 35mm² Al Cable terminated in 100 amp cut out (except where specified).

Phase Identification
For new colour convention mains, the connected phases will be shown as BR, BK, GY Where BR = brown (red) / BK = black (yellow) / GY = grey (blue).

Material Specification
All cables, equipment and construction method on this network are to be in accordance with GSI documentation.

Excavation Carried Out by BUUK
The trench highlighted in blue will be excavated and reinstated by BUUK contractors, the excavation and reinstatement of the other trench will be the responsibility of the customer.



Plan Notes
This plan shows apparatus owned by the BUUK Group. Any third party apparatus indicated on these drawings is shown for indicative purposes only. The information shown on this plan is given without warranty, the accuracy cannot be guaranteed. No liability of any kind whatsoever is accepted by the company. Safe digging practices, in accordance with H5(GY47), must be used to verify and establish the actual position of apparatus. This plan is reproduced by the permission of Ordnance Survey on behalf of HMSO. © Crown copyright and database right 2007. All rights reserved Ordnance Survey Licence number 0100021063.

Developers Responsibility
When apparatus have been laid it becomes the responsibility of the developer to ensure it is suitably protected, therefore backfilling should be carried out as soon as possible. Replacement and repair of damaged apparatus, including administrative costs will be fully recharged to the developer. It will be the developer's responsibility to recover the costs from the third parties.

Revision Notes
For a revision history of this network design please see separate revision history document.

Last Edit By:
Last Approved By:

OS Ref:

Location:

Developer/Client:

Drawing Number/Title:

Network Number: Project Number:

Scale: Sheet Size: Revision:



Appendix E

Network Rail Asset Plans



Underground Services Team
National Records Centre
Audax Road
YORK

NRSWA Asset Enquiries

YO30 4GS

Tel:

Date: 31 July 2018

GM1

Your Reference **2018_22939**

Our Reference: **WES185955**

Dear NRSWA,

Re: Underground Services Search: **OP Alexander Turner CI, Reading**

Please find information available as per the checklist.

The information contained herein is based on Network Rail's records and, where appropriate, third parties such as utility companies. The search enclosed does not cover a search of local council records. Also, schematic Signal and Telecom (S&T) cables plans are not provided as part of the search results, therefore you must assume S&T cables are present until proven otherwise.

Although at the date of this letter the information is as up to date as possible, it is **NOT** a statement of validity, accuracy or completeness as to any of the enclosed search information and must not be relied on as such.

Your risk assessment **MUST** take into account:

- That the information supplied, including the services shown on the map from the Rail Infrastructure Network Model (RINM), does not provide any guarantee as to the accuracy of the actual location of services on site and **MUST** be considered as for guidance purposes only.
- That new/unrecorded services are likely to be present
- That the enclosed Underground Services search information has been collated only for the ELR and Mileage boundaries as stated on the original request form

Included in your underground services search is a list of local engineers and managers you **MUST** contact before any ground disturbance is carried out, to check whether further information is held locally.

Further guidance can be obtained from the Health and Safety Executive publication HSG47 "Avoiding Danger from Underground Services" and the Network Rail Publication NR/L2/INI/CP1030.

Should you become aware of any additional underground services or assets within the locality during your investigations and/or works, including redundant assets, please identify them as a matter of urgency to the site manager. Records of the location of these assets should be kept for onward transmission and entry into the Hazard Directory.

Yours sincerely

Gareth Milne

Distribution Administrator



UNDERGROUND SERVICES INFORMATION CHECKLIST

YOUR REF	2018_22939	OUR REF	WES185955
LOCATION	**OP** Alexander Turner Cl, Reading	ELR	MLN1
MILEAGE FROM	34.1670	MILEAGE TO	35.0310
Utility Company/Internal Source	Category	Enc	Notes
Site Map	GIS Systems	Yes	
Hazard Directory	Hazard	Yes	
Civils WES	NRG	Yes	
eB	NRG	Yes	

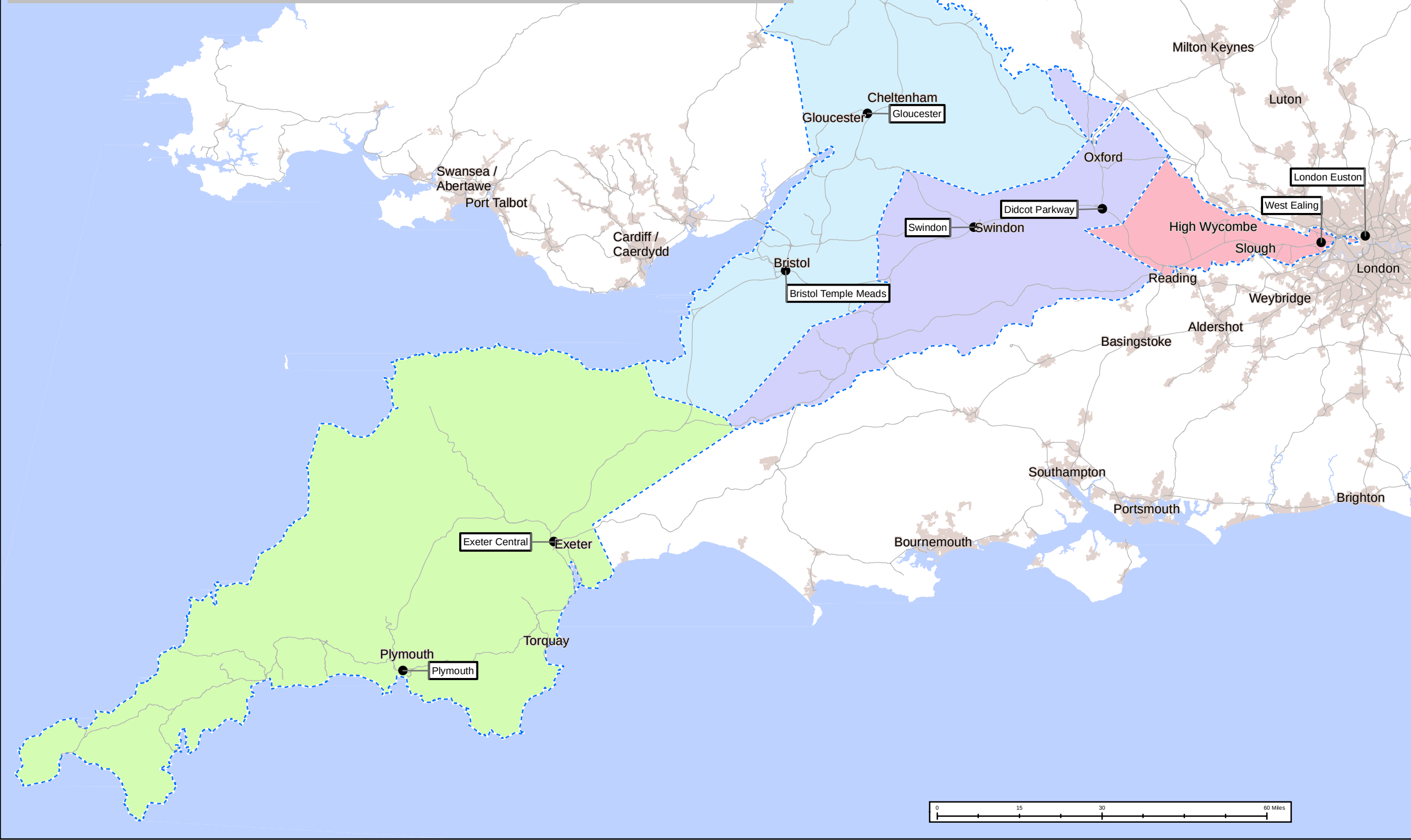
NIL RETURN: After interrogating the information made available to us, no records containing underground services information have been returned for this worksite. However, reference must be made to the guidelines supplied with this underground services search, which contain important information on safe working practices.

Upon receipt can you please check that the information provided agrees with this listing and if there are any discrepancies please contact the Underground Services Team at:

National Records Centre, Audax Road, York. YO30 4GS

buriedservicesnst@networkrail.co.uk

Route	Delivery Unit	Role	Name	Tel:	Mobile:
Western	Bristol	Acting Section Manager (Signalling)	Martin Chadwick	N/A	07739 786528
		Section Manager (D&P)	Patrick Leebody	N/A	07515 623346
		E&P Maintenance Engineer	Dave Cattle	N/A	07919 128293
		Route Communications Engineer	Mark Lifely	N/A	07920 857074
	Gloucester	Section Manager (Signalling)	Greg Martin	N/A	07808 244262
Route	Delivery Unit	Role	Name	Tel:	Mobile:
Western	Reading	Section Manager (Signalling)	Harminster Toor	N/A	07808 244550
		Route Communications Engineer	Mark Lifely	N/A	07920 857074
		Section Manager (Telecoms)	Mark Shellard	N/A	07899 934013
	Westbourne Park (Thames Valley East)	Section Manager (D&P)	Robert Squibb	N/A	07711 602199
	West Ealing	Acting Section Manager (Signalling)	Phil Hannafor	01256 490028	07808 244467
Route	Delivery Unit	Role	Name	Tel:	Mobile:
Western	Plymouth	Section Manager (Signalling)	Matt Johnson	N/A	07801 907401
		Works Delivery Manager (Signalling)	Matthew Davey	N/A	07710 960239
		S&T Maintenance Engineer	Jon Tancock	N/A	07920 155849
		E&P Maintenance Engineer	Dave Cattle	N/A	07919 128293
		Route Communications Engineer	Mark Lifely	N/A	07920 857074
	Exeter	Section Manager (Signalling)	Mark Reed	N/A	07747 627066
Route	Delivery Unit	Role	Name	Tel:	Mobile:
Western	Swindon	S&T Maintenance Engineer	Les Vere	N/A	07515 621198
	Didcot	Section Manager (Signalling)			
	Didcot (Thames Valley West)	Section Manager (D&P)	Michael Harris	N/A	07715 131546
	Westbury	Section Manager (Signalling)	Faro Nhamo	01179 4347269	07920 277771





Asset Information Services

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GeospatialReportingAnalysis@NetworkRail.co.uk

LOCAL CONTACTS LIST - WESTERN IMDMs

Job No.:	10104.112				
Scale:	1:1,200,000 @ A3				
Use Type:	[INTERNAL]	Date:	17/05/2018		
Version:	1	QA By:	SD	Produced By:	DJ

LEGEND

- Stations
- Rail Network
- IMDM Boundaries
- Urban Areas

IMDM Boundaries

- IMDM Bristol
- IMDM Plymouth
- IMDM Reading
- IMDM Swindon

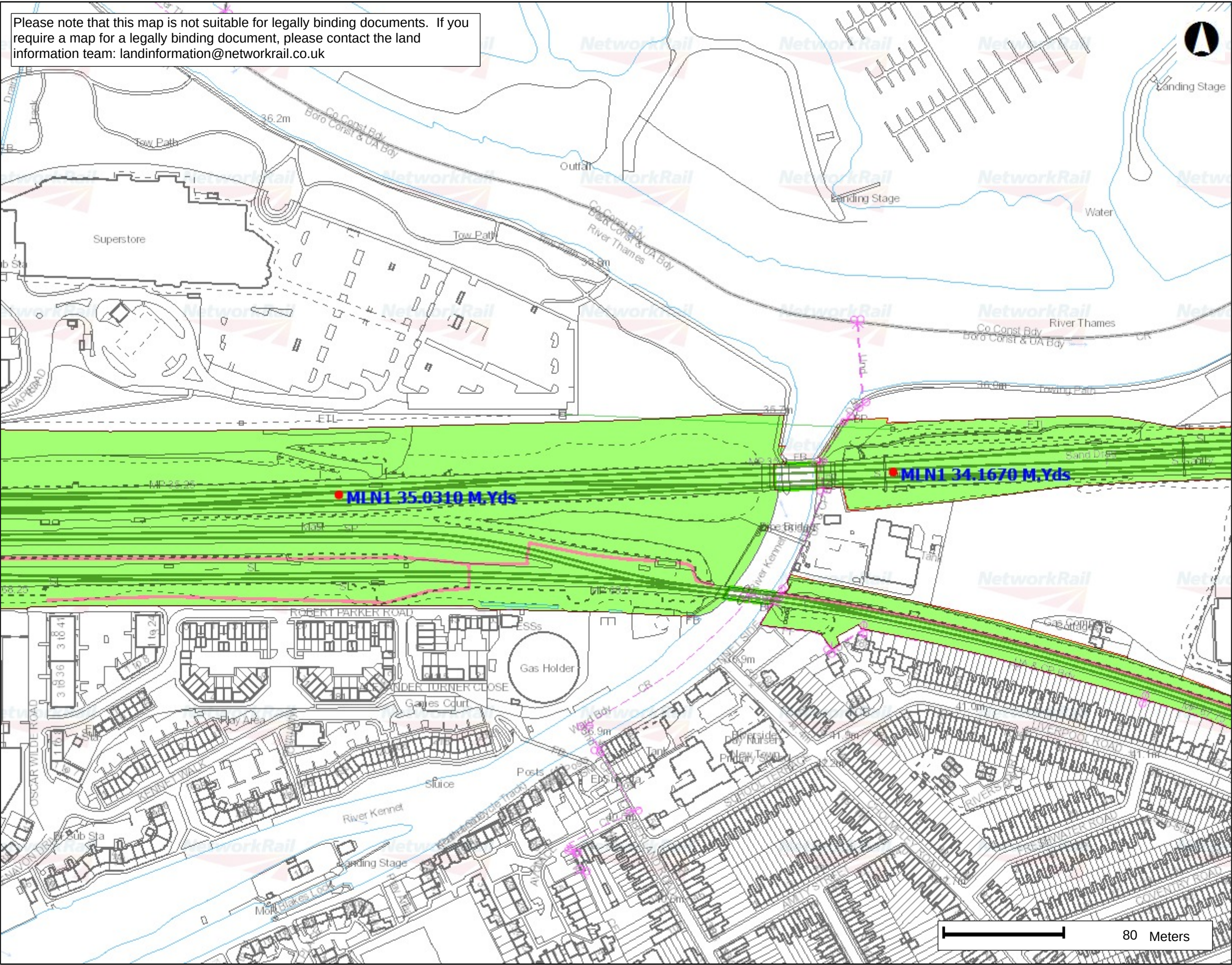
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GEO-RINM

This material from the Rail Infrastructure Network Model (RINM) is a guide only and although every effort will be made to ensure that the information is correct you should be aware that the information may be incomplete, inaccurate or out of date. Network Rail shall not be liable for any loss or damage, which may arise from the use of any information, contained.





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WES185955

Alexander Turner CI, Reading

Scale 1 : 2,500

Plot Date 31/07/18 08:37

Printed By

Output created from GeoRINM Viewer

DETAILS of OBSTRUCTIONS on B.C.C. Nos. VS 43 & VS 43A

OBSTRUCTION	DESCRIPTION	DEPTH	DISTANCE from		
			POINT 	POINT 	POINT 
A	100 mm. E/W PIPE	700	12.20	/	/
B	152 mm. C.I. PIPE	450	4.60	/	/
C	152 mm. C.I. PIPE	650	5.70	/	/
D	75 mm. C.I. PIPE & CABLE	500	/	14.00	/
E	4 No. CABLES	730	/	8.30	/
F	4 No. CABLES	550	/	6.40	/
G	1 No. CABLE	750	/	2.30	/
H	CABLE SLAB	500	/	1.20	/
J	CABLE SLAB	600	/	/	2.30
K	CABLE SLAB	900	/	/	3.80
L	CABLE SLAB	650	/	/	4.90
M	CABLE SLAB	700	/	/	6.60
N	100 mm. E/W PIPE	450	/	/	7.10
P	CABLE SLAB	800	/	/	7.40
Q	100 mm. E/W PIPE	550	/	/	7.80
R	1 No. CABLE	700	/	/	7.90
S	CABLE SLAB	400	/	/	8.60
T	CABLE SLAB	900	/	/	9.90

Standard metric troughing	S M T
Bell mouth in inspection chamber	
Surface route	
Buried route	
Lead to ducts	
Surface feeder joint	
Buried feeder joint	
Surface pilot joint	
Buried pilot joint	
Scale: 1:200	
Dimensions are for route location only & do not refer to cable lengths	

CHART PREPARED BY PIRELLI CONSTRUCTION Co. Ltd.
British Railways (S.R.), CM & EE Dept., Southern House, Croydon.

READING S/S — READING GRID

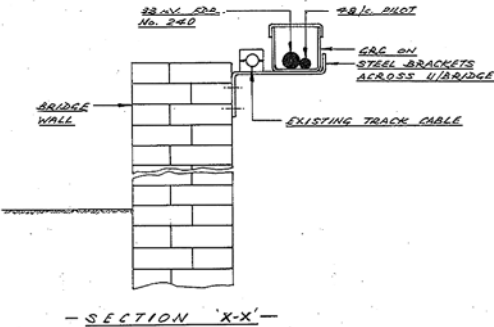
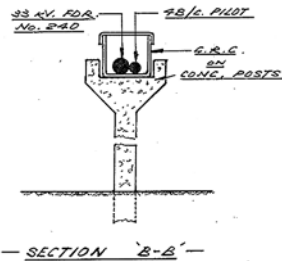
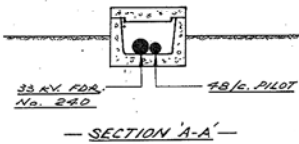
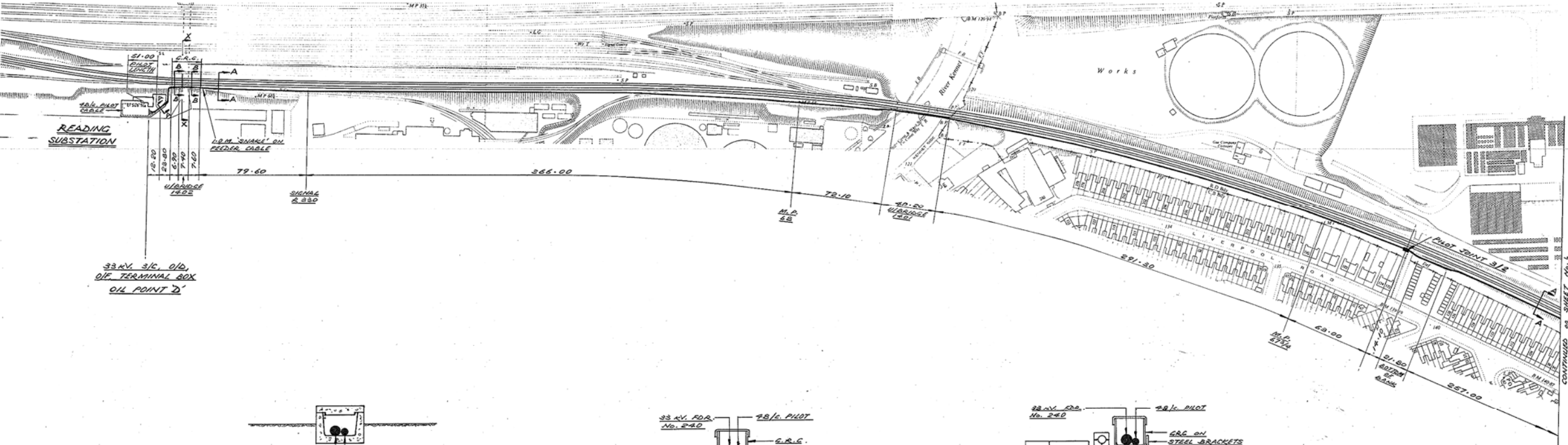
Feeder No. 241

& 1 x 28/ Core Supervisory Pilot Cable

Drn. *RM. 5-9-83*
Chd.

App.
Agd.

Chart No. **VS 43B**



DATE LAID	DRUM No.	SECTION	LENGTH (IN METRES)	TYPE OF CABLE	DATE JOINED	JOINTER	JOINT BAY	TYPE OF JOINT	DRG. No.
3-10-81	TZM 3557X	4	1983.80	33 kV, 3/CORE, 95 mm ² , ALUMIN. CONVD., CAS, PVC, OIL CABLE	4-10-81	M. WOOLMER	READING SUBSTATION	33 kV, 3/C O/D, OFF, TERMINAL BOX	WI. 529315/1
3-10-81	MZH 3769X	3	1008.90	48/CORE, (12 QUADS.), 1.27 mm. PLAIN CU. CONVD., CELL. PE INS., PE SHEATH, AWS, PVC SHEATH	21-10-81	J. WOOLMER	READING SUBSTATION	END BOX	✓
3-10-81	MZH 4635	2	1002.40		20-10-81	J. WOOLMER	3/2	STRAIGHT JOINT	6070151



Appendix F

TW Asset Plans and Budget Estimate



ALS Sewer Map Key

Public Sewer Types (Operated & Maintained by Thames Water)

	Foul: A sewer designed to convey waste water from domestic and industrial sources to a treatment works.		
	Surface Water: A sewer designed to convey surface water (e.g. rain water from roofs, yards and car parks) to rivers or watercourses.		
	Combined: A sewer designed to convey both waste water and surface water from domestic and industrial sources to a treatment works.		
	Trunk Surface Water		Trunk Foul
	Storm Relief		Trunk Combined
	Vent Pipe		Bio-solids (Sludge)
	Proposed Thames Surface Water Sewer		Proposed Thames Water Foul Sewer
	Gallery		Foul Rising Main
	Surface Water Rising Main		Combined Rising Main
	Sludge Rising Main		Proposed Thames Water Rising Main
	Vacuum		

Notes:

- 1) All levels associated with the plans are to Ordnance Datum Newlyn.
- 2) All measurements on the plans are metric.
- 3) Arrows (on gravity fed sewers) or flecks (on rising mains) indicate direction of flow.
- 4) Most private pipes are not shown on our plans, as in the past, this information has not been recorded.
- 5) 'na' or '0' on a manhole level indicates that data is unavailable.

Sewer Fittings

A feature in a sewer that does not affect the flow in the pipe. Example: a vent is a fitting as the function of a vent is to release excess gas.

	Air Valve
	Dam Chase
	Fitting
	Meter
	Vent Column

Operational Controls

A feature in a sewer that changes or diverts the flow in the sewer. Example: A hydrobrake limits the flow passing downstream.

	Control Valve
	Drop Pipe
	Ancillary
	Weir

End Items

End symbols appear at the start or end of a sewer pipe. Examples: an Undefined End at the start of a sewer indicates that Thames Water has no knowledge of the position of the sewer upstream of that symbol, Outfall on a surface water sewer indicates that the pipe discharges into a stream or river.

	Outfall
	Undefined End
	Inlet

Other Symbols

Symbols used on maps which do not fall under other general categories

	Public/Private Pumping Station
	Change of characteristic indicator (C.O.C.I.)
	Invert Level
	Summit

Areas

Lines denoting areas of underground surveys, etc.

	Agreement
	Operational Site
	Chamber
	Tunnel
	Conduit Bridge

Other Sewer Types (Not Operated or Maintained by Thames Water)

	Foul Sewer		Surface Water Sewer
	Combined Sewer		Gully
	Culverted Watercourse		Proposed
			Abandoned Sewer

The width of the displayed area is 500 m and the centre of the map is located at OS coordinates 472870, 173660.

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Evi Giakoumi
Stuart Michael Associates
Coombe House
Coombe Square
Thatcham
RG19 4JF



DS reference DS6053062



developer.services@thameswater.co.uk



08000 093 921
Mon-Fri 8am-5pm



thameswater.co.uk/developerservices

5th October 2018

Your clean water budget estimate / point of connection report

Site location: Danescroft Land, SGN Reading, 21 Alexander Turner Close, Reading RG1 3FQ

Dear Mrs Giakoumi,

Thank you for your correspondence dated 4th October regarding the above development consisting of 130 residential flats.

Please note that you are now able to calculate the likely charges involved in your scheme by consulting our guide, 'Charging arrangements for new connection services'.

<https://developers.thameswater.co.uk/New-connection-charging>

Please be aware that this report is based upon the details and drawings provided. If there are any subsequent changes to the details and information on your drawing, the contents of this report will become invalid and a new assessment will be needed.

We've listed below the approximate costs to serve the site.

Finding your best fit

When arranging supplies for your site, we want you to choose the installer that best suits your needs and timescales. This may or may not be us.

Independent self-lay providers could be able to offer cost-effective terms and fit in better with your construction programme, and might also be able to install multiple utilities. You can find out more about the self-lay option at

developers.thameswater.co.uk/Developing-a-large-site/Using-a-self-lay-provider

NAVs are companies that can become new water and/or wastewater providers within an existing water company's region to serve specific customers or developments. You may be able to use a NAV if you meet criteria defined by Ofwat. To find out more, visit Ofwat's website at

ofwat.gov.uk/regulated-companies/markets/nav-market or our website at <https://wholesale.thameswater.co.uk/wholesale-services/wholesale-providers>



Contaminated land

If our assessment of your full soil report deems the site to be 'contaminated', you'll need to install mains and service connections using barrier pipe, rather than plastic pipe.

What to do next

If you'd like to proceed with your design, you can apply for a formal quotation for water supply to developer.services@thameswater.co.uk for the attention of the self-lay team or design team.

For more information, see developers.thameswater.co.uk/domestic-and-small-commercial/water-supply/new-or-replacement-water-supply/how-to-get-a-quote.

Network capacity

Please find attached the standard network response letter.

Fire hydrant and sprinkler demand

Please note that we aren't able to confirm whether a fire hydrant or sprinkler demand can be accommodated on a new connection. **You'll need to contact an independent consultant or specialist company for hydrant testing for fire-fighting purposes.**

Working near our assets

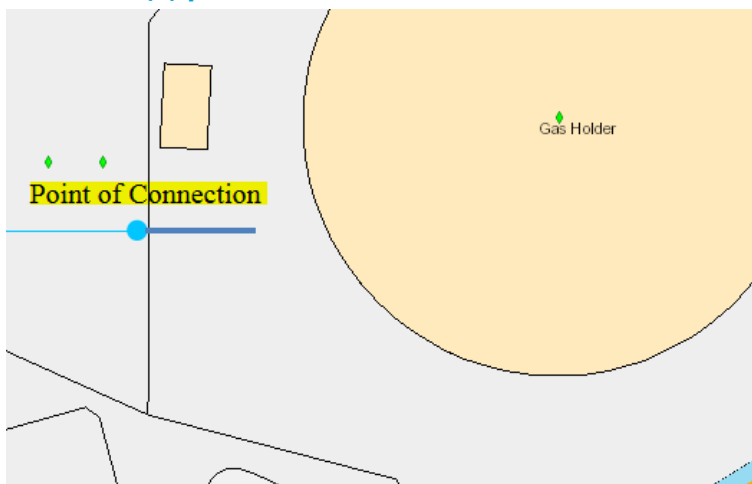
If you're planning significant work near our assets, it's important you minimise the risk of damaging them. You can find more information at developers.thameswater.co.uk/domestic-and-small-commercial/building-near-pipes.

Diversions

From our records, we don't anticipate that any clean water assets need to be diverted to accommodate your proposals.

Please note however that any diversions which are needed will be charged at full cost, payable in advance.

New main(s) point of connection location





New main(s) and water supply connections cost

There are two options available for installation of mains and water supply connections:

- Self-lay option, where a self-lay provider carries out the work on our behalf and we adopt the asset once completed. Self-lay providers are independent companies who you can ask to provide competitive quotes, and may be able to offer more flexible timescales, or be able to install multiple utilities.
- Statutory option, where we carry out the work.

Table 1. Budget cost for works undertaken:

Activity required	Self-lay budget cost	Statutory budget cost
Onsite Mainlaying: Lay approximately 74 metres of 125mm diameter Barrier Pipe water main in unmade ground. Offsite Mains Reinforcement: This can only be determined by the outcome of the Flow & Pressure Test or a Hydraulic Modelling Study which will be funded by Thames Water from the 1 st April 2018.	Total: £21,090.00 Asset Payment: £19,240.00 The above costs are only applicable if the site is requisitioned as one package	Total: £21,090.00 The above costs are only applicable if the site is requisitioned as one package
Residential flats: 2 x 63mm metered Barrier Pipe bulk supplies from the proposed main and 1 x 90mm metered Barrier Pipe bulk supplies from the proposed main and the supply of 133 internal fit meters (landlord supplies assumed) which need to be fitted within the riser cupboards in the public spaces on each floor at a height of no more than 1,500mm from the floor level. This is based on assumption as block details have not been provided.	Total: £11,970.00 133 x 20mm diameter meter, supply to be laid by the Self Lay Company	Total: £17,500.00

- Total: shows a total cost of the scheme
- Asset payment: shows the forecast sum to be paid to self-lay provider for asset installed and adopted by us

Infrastructure and network charges

133 x £140 for Water Infrastructure Charges =	£18,620.00
133 x £210 for Sewerage Infrastructure Charges =	£27,930.00

Please note that infrastructure charge credits may be applicable based on the water consumption at the site within the last five years.



Building water

It's important that you contact us before you start using water on your building work. If you don't, we'll base your charges on 0.17 per cent of the contract value. For more details visit developers.thameswater.co.uk/domestic-and-small-commercial/water-supply/water-for-building-work

Water quality and hardness

You can check water quality in your area at secure.thameswater.co.uk/dynamic/cps/rde/xchg/corp/hs.xsl/899.htm

Asset location search

You can contact our Property Searches team to request an asset location search (for which a fee is payable) showing where any nearby mains, sewers and other equipment is situated. Please visit thameswater-propertysearches.co.uk or call 0845 070 9148.

Disconnection

If you'd like to permanently disconnect your existing water supply, please apply at secure.thameswater.co.uk/dynamic/cps/rde/xchg/corp/hs.xsl/15131.htm

Important note about this estimate

Please note all information enclosed in this letter is for budgetary purposes only and should by no means be taken as the actual cost for serving this development site.

I hope you find this information helpful. If you've any further queries, please don't hesitate to contact us.

Yours sincerely,

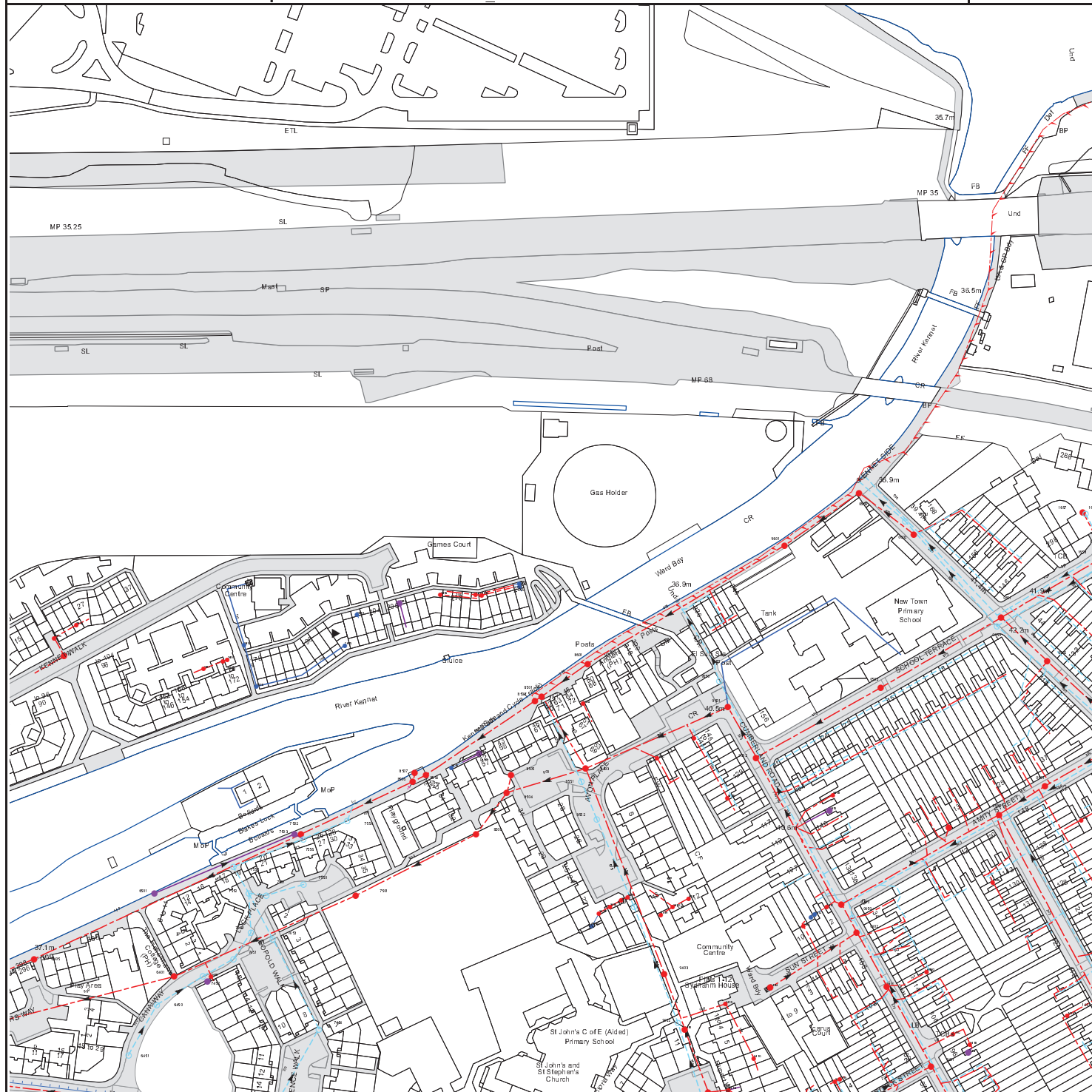
Claire Gould

Thames Water
Developer Services – Customer Experience Team
developer.services@thameswater.co.uk
0800 009 3921



Appendix G

TW Asset Plans and Budget Estimate



The width of the displayed area is 500 m and the centre of the map is located at OS coordinates 472870,173660

The position of the apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. Service pipes are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Thames Water for any error or omission. The actual position of mains and services must be verified and established on site before any works are undertaken.

Based on the Ordnance Survey Map with the Sanction of the controller of H.M. Stationery Office, License no. 100019345 Crown Copyright Reserved.

NB. Levels quoted in metres Ordnance Newlyn Datum. The value -9999.00 indicates that no survey information is available

Manhole Reference	Manhole Cover Level	Manhole Invert Level
141A	n/a	n/a
1401	41.69	38.59
951E	n/a	n/a
0403	40.61	37.44
0450	40.54	38.62
0402	40.61	37.56
0604	36.91	35.35
0503	41.19	37.63
0651	39.51	35.76
0603	40.16	37.25
041G	n/a	n/a
0504	n/a	n/a
051A	n/a	n/a
0650	41.95	36.84
0502	42.17	38.14
0601	41.97	38.11
0501	42.38	38.43
0602	42.34	n/a
151A	n/a	n/a
1657	41.32	39.44
1656	41.34	39.94
9401	40.58	37.88
941B	n/a	n/a
941A	n/a	n/a
041A	n/a	n/a
0401	40.77	37.93
941C	n/a	n/a
041D	n/a	n/a
041E	n/a	n/a
041C	n/a	n/a
941E	n/a	n/a
9452	40.28	38.13
941D	n/a	n/a
941M	n/a	n/a
041F	n/a	n/a
8501	36.81	34.73
8551	39.88	36.78
851D	n/a	n/a
8503	40.21	36.17
8601	36.81	34.82
841C	n/a	n/a
8552	39.85	36.79
841A	n/a	n/a
841B	n/a	n/a
851C	n/a	n/a
951F	n/a	n/a
9451	39.67	37.19
951C	n/a	n/a
941H	n/a	n/a
9403	40.01	37.13
941G	n/a	n/a
941F	n/a	n/a
951A	n/a	n/a
9550	40.57	37.86
951B	n/a	n/a
9501	40.59	36.74
9502	40.56	36.99
941L	n/a	n/a
941I	n/a	n/a
941J	n/a	n/a
941K	n/a	n/a
951D	n/a	n/a
6450	40.83	38.82
6401	40.61	34.93
7452	40.27	38.36
741A	n/a	n/a
741B	n/a	n/a
7454	n/a	n/a
661A	n/a	n/a
6501	37.43	36.51
761F	n/a	n/a
761G	n/a	n/a
7553	37.4	36.35
7451	39.95	38.25
7552	39.02	37.06
7450	39.68	38.01
751B	n/a	n/a
7551	39.38	37.46
7453	39.73	38.09
7503	37.01	35.59
7502	37.06	35.57
7556	n/a	n/a
7550	39.16	37.87
761D	n/a	n/a
7554	37.08	35.62
7501	n/a	n/a
8506	36.84	34.52
8507	36.86	n/a
8554	n/a	n/a
851A	n/a	n/a
8508	n/a	n/a

Manhole Reference	Manhole Cover Level	Manhole Invert Level
851B	n/a	n/a
8504	39.42	35.92
8505	39.5	36.43
8502	36.8	34.67
761E	n/a	n/a
661C	n/a	n/a
661B	n/a	n/a
761H	n/a	n/a
761A	n/a	n/a
861A	n/a	n/a
861D	n/a	n/a
861C	n/a	n/a
861B	n/a	n/a
861E	n/a	n/a
9601	36.86	35.15
6451	41.21	39.47
6405	n/a	n/a
The position of the apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. Service pipes are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Thames Water for any error or omission. The actual position of mains and services must be verified and established on site before any works are undertaken.		



Evi Giakoumi
Stuart Michael Associates
Coombe House
Coombe Square
Thatcham
RG19 4JF



DS reference DS6053062



developer.services@thameswater.co.uk



08000 093 921
Mon-Fri 8am-5pm



thameswater.co.uk/developerservices

5th October 2018

Your clean water budget estimate / point of connection report

Site location: Danescroft Land, SGN Reading, 21 Alexander Turner Close, Reading RG1 3FQ

Dear Mrs Giakoumi,

Thank you for your correspondence dated 4th October regarding the above development consisting of 130 residential flats.

Please note that you are now able to calculate the likely charges involved in your scheme by consulting our guide, 'Charging arrangements for new connection services'.

<https://developers.thameswater.co.uk/New-connection-charging>

Please be aware that this report is based upon the details and drawings provided. If there are any subsequent changes to the details and information on your drawing, the contents of this report will become invalid and a new assessment will be needed.

We've listed below the approximate costs to serve the site.

Finding your best fit

When arranging supplies for your site, we want you to choose the installer that best suits your needs and timescales. This may or may not be us.

Independent self-lay providers could be able to offer cost-effective terms and fit in better with your construction programme, and might also be able to install multiple utilities. You can find out more about the self-lay option at

developers.thameswater.co.uk/Developing-a-large-site/Using-a-self-lay-provider

NAVs are companies that can become new water and/or wastewater providers within an existing water company's region to serve specific customers or developments. You may be able to use a NAV if you meet criteria defined by Ofwat. To find out more, visit Ofwat's website at

ofwat.gov.uk/regulated-companies/markets/nav-market or our website at <https://wholesale.thameswater.co.uk/wholesale-services/wholesale-providers>



Contaminated land

If our assessment of your full soil report deems the site to be 'contaminated', you'll need to install mains and service connections using barrier pipe, rather than plastic pipe.

What to do next

If you'd like to proceed with your design, you can apply for a formal quotation for water supply to developer.services@thameswater.co.uk for the attention of the self-lay team or design team.

For more information, see developers.thameswater.co.uk/domestic-and-small-commercial/water-supply/new-or-replacement-water-supply/how-to-get-a-quote.

Network capacity

Please find attached the standard network response letter.

Fire hydrant and sprinkler demand

Please note that we aren't able to confirm whether a fire hydrant or sprinkler demand can be accommodated on a new connection. **You'll need to contact an independent consultant or specialist company for hydrant testing for fire-fighting purposes.**

Working near our assets

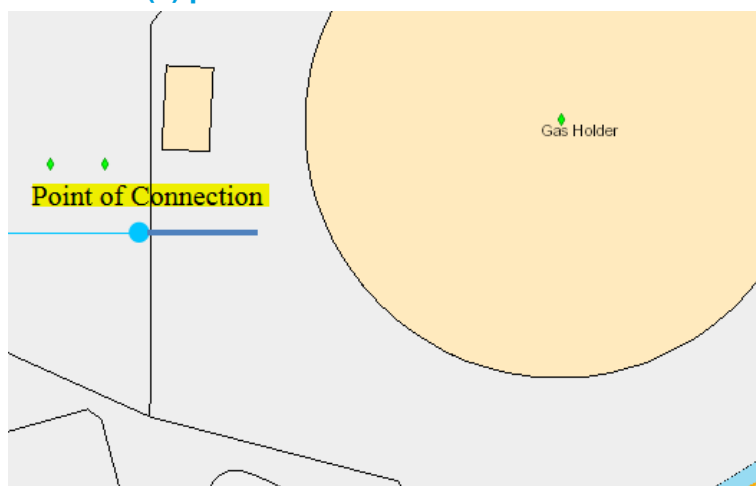
If you're planning significant work near our assets, it's important you minimise the risk of damaging them. You can find more information at developers.thameswater.co.uk/domestic-and-small-commercial/building-near-pipes.

Diversions

From our records, we don't anticipate that any clean water assets need to be diverted to accommodate your proposals.

Please note however that any diversions which are needed will be charged at full cost, payable in advance.

New main(s) point of connection location





New main(s) and water supply connections cost

There are two options available for installation of mains and water supply connections:

- Self-lay option, where a self-lay provider carries out the work on our behalf and we adopt the asset once completed. Self-lay providers are independent companies who you can ask to provide competitive quotes, and may be able to offer more flexible timescales, or be able to install multiple utilities.
- Statutory option, where we carry out the work.

Table 1. Budget cost for works undertaken:

Activity required	Self-lay budget cost	Statutory budget cost
Onsite Mainlaying: Lay approximately 74 metres of 125mm diameter Barrier Pipe water main in unmade ground. Offsite Mains Reinforcement: This can only be determined by the outcome of the Flow & Pressure Test or a Hydraulic Modelling Study which will be funded by Thames Water from the 1 st April 2018.	Total: £21,090.00 Asset Payment: £19,240.00 The above costs are only applicable if the site is requisitioned as one package	Total: £21,090.00 The above costs are only applicable if the site is requisitioned as one package
Residential flats: 2 x 63mm metered Barrier Pipe bulk supplies from the proposed main and 1 x 90mm metered Barrier Pipe bulk supplies from the proposed main and the supply of 133 internal fit meters (landlord supplies assumed) which need to be fitted within the riser cupboards in the public spaces on each floor at a height of no more than 1,500mm from the floor level. This is based on assumption as block details have not been provided.	Total: £11,970.00 133 x 20mm diameter meter, supply to be laid by the Self Lay Company	Total: £17,500.00

- Total: shows a total cost of the scheme
- Asset payment: shows the forecast sum to be paid to self-lay provider for asset installed and adopted by us

Infrastructure and network charges

133 x £140 for Water Infrastructure Charges = £18,620.00

133 x £210 for Sewerage Infrastructure Charges = £27,930.00

Please note that infrastructure charge credits may be applicable based on the water consumption at the site within the last five years.



Building water

It's important that you contact us before you start using water on your building work. If you don't, we'll base your charges on 0.17 per cent of the contract value. For more details visit developers.thameswater.co.uk/domestic-and-small-commercial/water-supply/water-for-building-work

Water quality and hardness

You can check water quality in your area at secure.thameswater.co.uk/dynamic/cps/rde/xchg/corp/hs.xsl/899.htm

Asset location search

You can contact our Property Searches team to request an asset location search (for which a fee is payable) showing where any nearby mains, sewers and other equipment is situated. Please visit thameswater-propertysearches.co.uk or call 0845 070 9148.

Disconnection

If you'd like to permanently disconnect your existing water supply, please apply at secure.thameswater.co.uk/dynamic/cps/rde/xchg/corp/hs.xsl/15131.htm

Important note about this estimate

Please note all information enclosed in this letter is for budgetary purposes only and should by no means be taken as the actual cost for serving this development site.

I hope you find this information helpful. If you've any further queries, please don't hesitate to contact us.

Yours sincerely,

Claire Gould

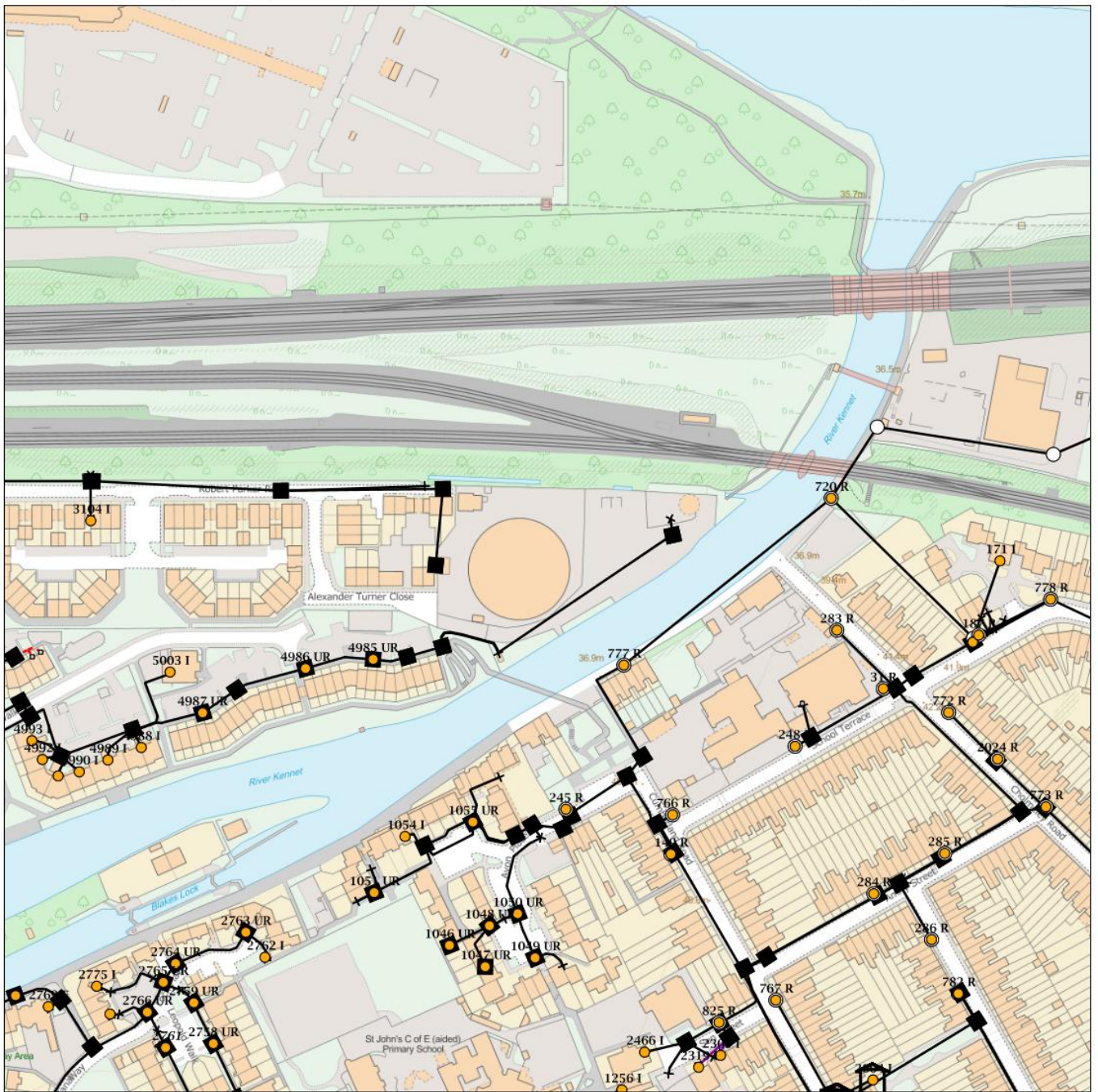
Thames Water
Developer Services – Customer Experience Team
developer.services@thameswater.co.uk
0800 009 3921



Appendix H

BT Asset Plans and Enquiry Letter

Maps by email Plant Information Reply



IMPORTANT WARNING

Information regarding the location of BT apparatus is given for your assistance and is intended for general guidance only. No guarantee is given of its accuracy.

It should not be relied upon in the event of excavations or other works being made near to BT apparatus which may exist at various depths and may deviate from the marked route.



openreach

CLICK BEFORE YOU DIG

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

email cbyd@openreach.co.uk

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

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KEY TO BT SYMBOLS

DP		Planned Pole	
Planned DP		Joint Box	
PCP		Change Of State	
Planned PCP		Split Coupling	
Built		Duct Tee	
Planned		Planned Box	
Inferred		Manhole	
Duct		Planned Manhole	
Building		Cabinet	
Kiosk		Planned Cabinet	
Hatchings		Other proposed plant is shown using dashed lines.	

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

BT Ref : NQQ11129S

Map Reference : (centre) SU7290673693

Easting/Northing : (centre) 472906,173693

Issued : 04/07/2018 11:12:58

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



Coombe House
Coombe Square
Thatcham
RG19 4JF

FAO: Evi Giakoumi

Our Ref: PJB/804577/RG
Your Ref:
10th August 2018

Dear Madam

ALEXANDER TURNER CLOSE, ROBERT PARK ROAD, READING

Thank you for your enquiry forwarded from our Openreach Newsites office.

An initial investigation of the above site proposals has been completed, and a detailed survey is now required to confirm that anticipated alterations to Openreach apparatus are the most cost effective means of protecting our network. Your proposals have been registered as works applicable to The Electronic Communications Code ("the 2017 Code"), Schedule 3A of the Communications Act 2003 and in line with Paragraph 16, Schedule 2, Transitional Provisions of the Digital Economy Act 2017

The estimated cost to provide a detailed estimate and specification for this work is **£1,483.02** (inclusive of VAT), which we will require in advance although the actual costs will be charged, whether more or less than this.

Because we consider a detailed investigation is essential to ensure our network is protected, we will contact you within 30 working days if payment has not been received unless you inform us that your proposals or circumstances have changed.

After receipt of payment, we will contact you where necessary and if there is no alternative to the alterations work, we will provide a single detailed estimate of the costs and a specification. However, if your proposals are not suitably detailed, then we may agree to provide a budget costing in advance of this. We would normally expect to complete this within 25 working days when we will also inform you of the next steps. If our expense is likely to exceed the advance payment you have made, particularly if additional or alternative costings are required, then further payments will be requested from you.

After provision of the final detailed estimate and your agreement to the associated specification, we will review our expenditure and provide a final invoice to settle the costs for this work before moving on to the next stage of the project.

If you have not already done so, please ensure you include preferred contact details, detailed plans and any supporting information for your proposals along with the advance payment.

See over for payment details.

Please note that we offer a site visit service to locate and mark the position of Openreach apparatus within your work area. To arrange a site visit from a Plant Protection Officer email cbyd@openreach.co.uk

Openreach provides a "Maps-by-Email" service to enable you to receive a copy of our plant records. If you haven't used this service before and would like to, please go to the following URL: <http://www.ournetwork.openreach.co.uk/locating-our-network/maps-by-email.aspx>

Yours faithfully

A handwritten signature in blue ink, appearing to read 'Pete Blackwell', with a stylized initial 'P'.

Pete Blackwell
Repayments Project Engineer

Repayments (Alterations)

PP G020
Reading Central ATE
41 Minster Street
Reading
RG1 2JB

email: pete.blackwell@openreach.co.uk
tele: 02087262117
mob: 07743 843281

Registered Office:
81 Newgate Street,
London EC1A 7AJ
Registered in England and Wales no. 1800000

Payment Details

There are three ways to pay the standard charge (£1,483.02 including VAT).

1. By Cheque

- This is our preferred method of payment
- Please make cheques payable to **British Telecommunications Plc**
- Send your cheque with your order / letter of authorisation to proceed with the works to the Project Engineer shown below (order not to contain contractual conditions)
- If an invoice is required to make payment, then contact the project engineer shown below, otherwise a retrospective invoice will be dispatched to you.
- Write your cheque number here: _____
- Write the cheque amount here: £ _____

2. Using Bank Automated Clearing Services (BACS)

When your order / letter of authorisation to proceed with the works has been received an invoice for payment will be returned with the necessary BACS payment details.

3. Telephone Credit Card Payments, to pay by credit card simply call our dedicated card payment team on Freephone 0808 100 0834, the opening hours are 9am to 4.30pm Monday to Friday.

Please quote the Openreach reference number / invoice number for all methods of payment otherwise payment may not be allocated to your job.

N.B. For either method of payment please complete this form and return with your order / letter of authorisation to the Project Engineer, address below. Please remember, however you pay, the works will not commence until this form and your payment have been received.

Title/Location of Work	ALEXANDER TURNER CLOSE, ROBOT PARK ROAD, READING
Project Engineer Name	Pete Blackwell
Postal Address	PP203, REPAYMENT PROJECTS OFFICE, READING CENTRAL TE, 41 MINSTER STREET, READING, BERKSHIRE, RG1 2JB
Openreach Reference	PJB/804577/RG
Client's Company Name	
Client Billing Address	
Client Contact	
Client Tel	

For advice or assistance in completing this form please call Jane Goodison 0131 345 0016 for all other queries contact the Project Engineer named above.

Our VAT number is **245719348**

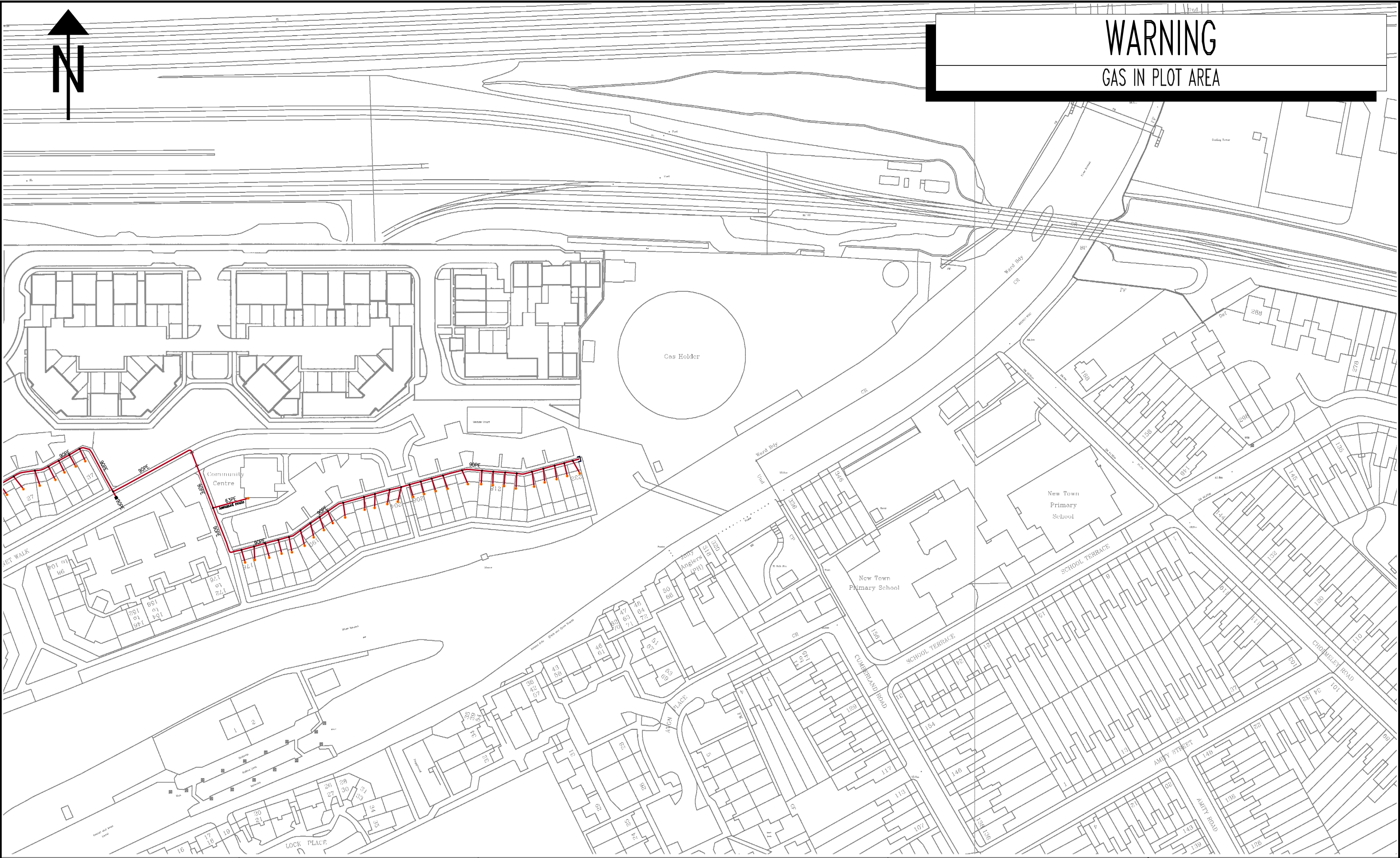


Appendix I

SSE Gas Asset Plans



WARNING
GAS IN PLOT AREA



NORMAL DEPTH TO THE TOP OF THE PIPE WHEN LAID

MAINS		SERVICES	
FOOTPATH	0.60m	PRIVATE	0.375m
VERGE	0.75m	PUBLIC	0.45m
ROAD	0.75m		

WARNING

There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of pipes. HS (G) 47 Booklet from the Health and Safety Executive - Avoiding Danger from Underground Services - should be consulted before commencing excavation work. (available from the HSE)

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READING 01189-126500

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GAS MAINS AND SERVICES

Alexander Turner CI
Reading RG1 3FQ

Grid Ref: SU72897365

Scale: 1:1250

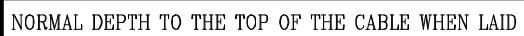
Date: 14/07/2018

MSS330507



Appendix J

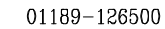
SSE Electric Asset Plans



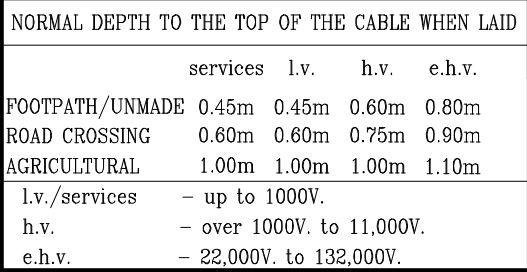
WARNING

WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE GS6 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)

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MSS330507



There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. (available from the HSE)

WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE GS6 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)

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Alexander Turner Cl
Reading RG1 3FQ

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If you are unsure & need to seek advice before commencing excavations please contact
READING
01189-126500

Grid Ref: SU72897365

Scale:	1:1250
--------	--------

Date: 14/07/2018

MSS330507