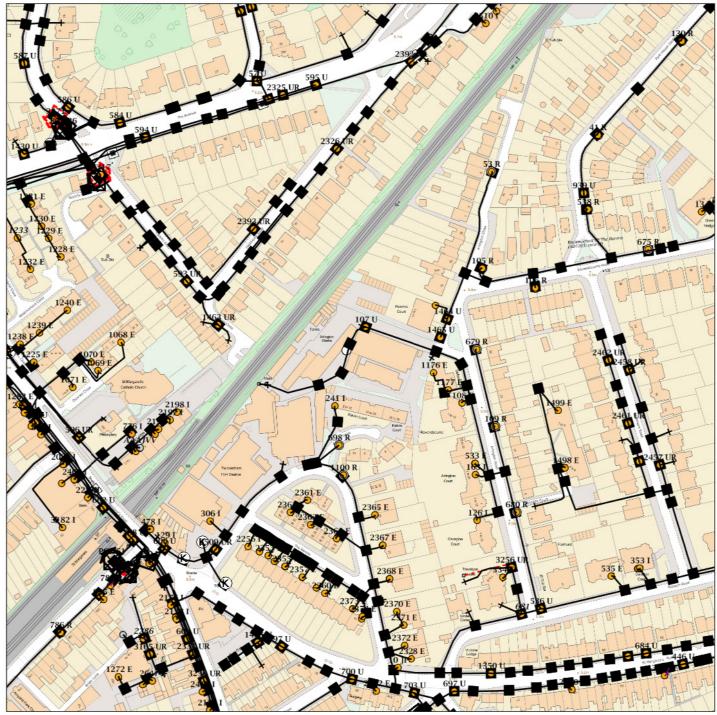
# Maps by email Plant Information Reply



#### 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 <u>cbyd@openreach.co.uk</u>

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

Reproduced from the Ordnance Survey map by BT by permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office (C) Crown Copyright British Telecommunications plc 100028040

KEY TO BT SYMBOLS	Pole	0
DP •	Planned Pole	0
Planned DP	Joint Box	
PCP 🔯	Change Of State	+
Planned PCP	Split Coupling	X
Built	Duct Tee	<b>A</b>
Planned	Planned Box	
Inferred	Manhole	
Building	Planned Manhole	
Kiosk (K)	Cabinet	Û
Hatchings	Planned Cabinet	Û
	Other proposed plant is shown usin	ng dashed lines.

BT Symbols not listed above maybe disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation

BT Ref: XEY02241E

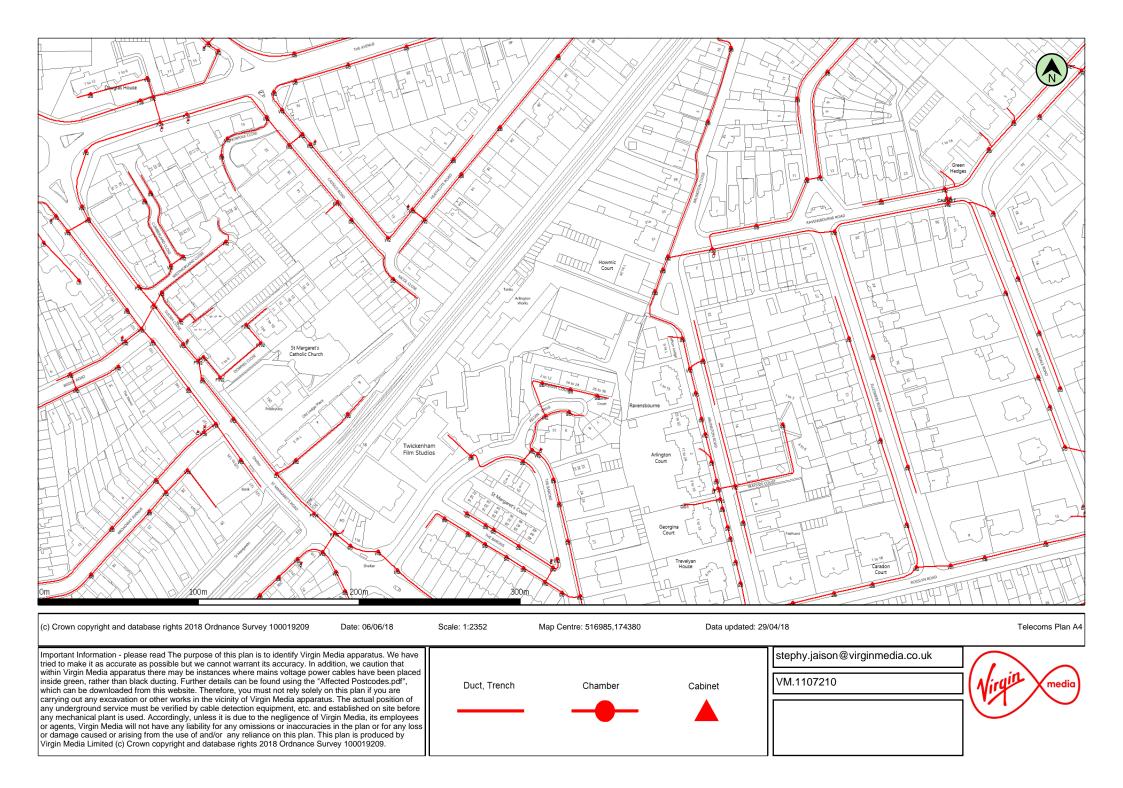
Map Reference: (centre) TQ1698574380 Easting/Northing: (centre) 516985,174380

Issued: 30/05/2018 14:24:49



# Appendix G

Virgin Media Records





# Appendix H

**CenturyLink Records** 



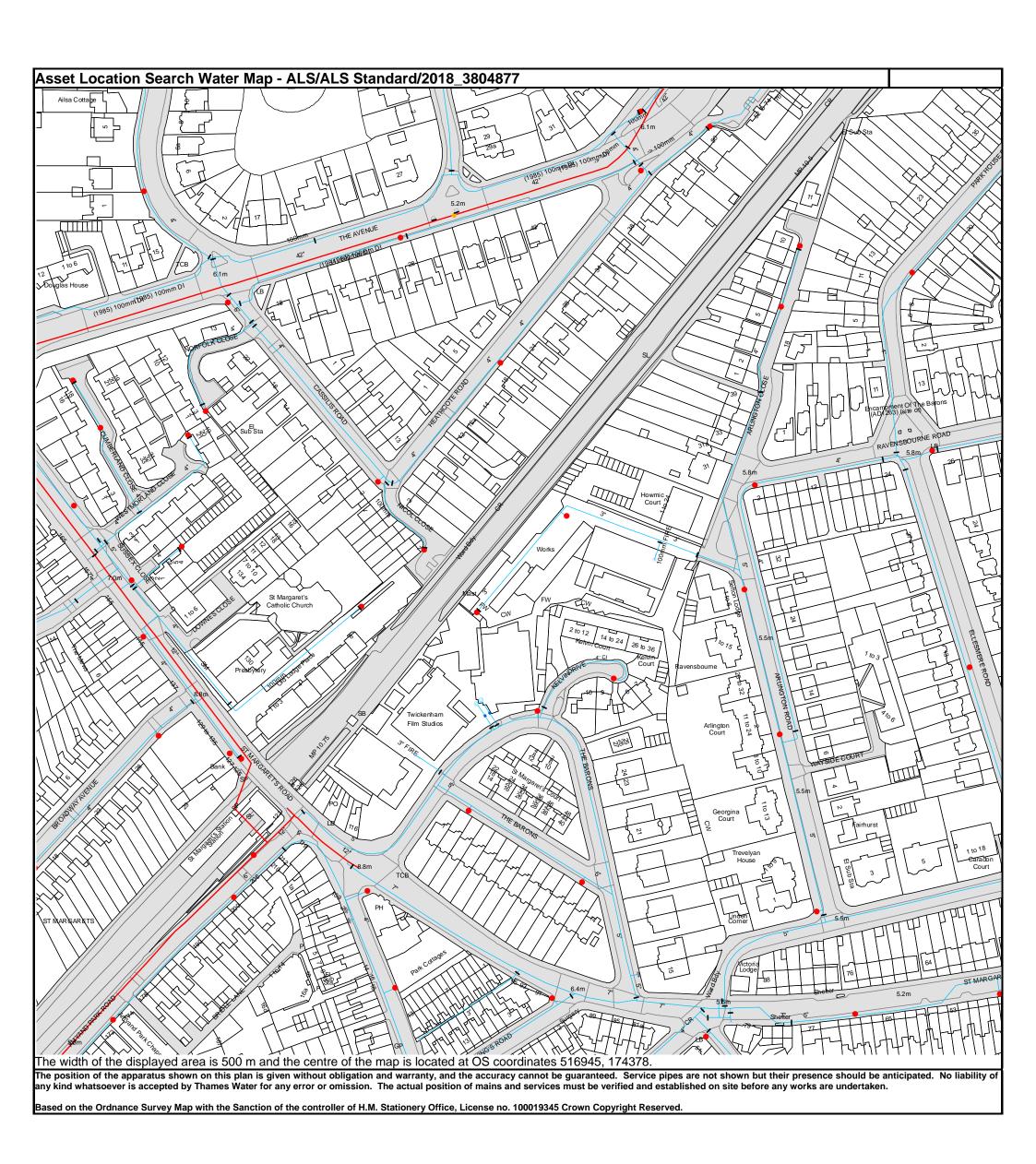


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# Appendix I

**Thames Water Potable Water Records** 



<u>Thames Water Utilities Ltd</u>, Property Searches, PO Box 3189, Slough SL1 4W, DX 151280 Slough 13 T 0845 070 9148 E <u>searches@thameswater.co.uk</u> I <u>www.thameswater-propertysearches.co.uk</u>



#### Water Pipes (Operated & Maintained by Thames Water)

	- <b>P</b> (- <b>P</b>
4"	<b>Distribution Main:</b> The most common pipe shown on water maps. With few exceptions, domestic connections are only made to distribution mains.
16"	<b>Trunk Main:</b> A main carrying water from a source of supply to a treatment plant or reservoir, or from one treatment plant or reservoir to another. Also a main transferring water in bulk to smaller water mains used for supplying individual customers.
3" SUPPLY	<b>Supply Main:</b> A supply main indicates that the water main is used as a supply for a single property or group of properties.
3" FIRE	<b>Fire Main:</b> Where a pipe is used as a fire supply, the word FIRE will be displayed along the pipe.
3° METERED	<b>Metered Pipe:</b> A metered main indicates that the pipe in question supplies water for a single property or group of properties and that quantity of water passing through the pipe is metered even though there may be no meter symbol shown.
	<b>Transmission Tunnel:</b> A very large diameter water pipe. Most tunnels are buried very deep underground. These pipes are not expected to affect the structural integrity of buildings shown on the map provided.
	<b>Proposed Main:</b> A main that is still in the planning stages or in the process of being laid. More details of the proposed main and its reference number are generally included near the main.

PIPE DIAMETER	<b>DEPTH BELOW GROUND</b>
Up to 300mm (12")	900mm (3')
300mm - 600mm (12" - 24")	1100mm (3' 8")
600mm and bigger (24" plus)	1200mm (4')

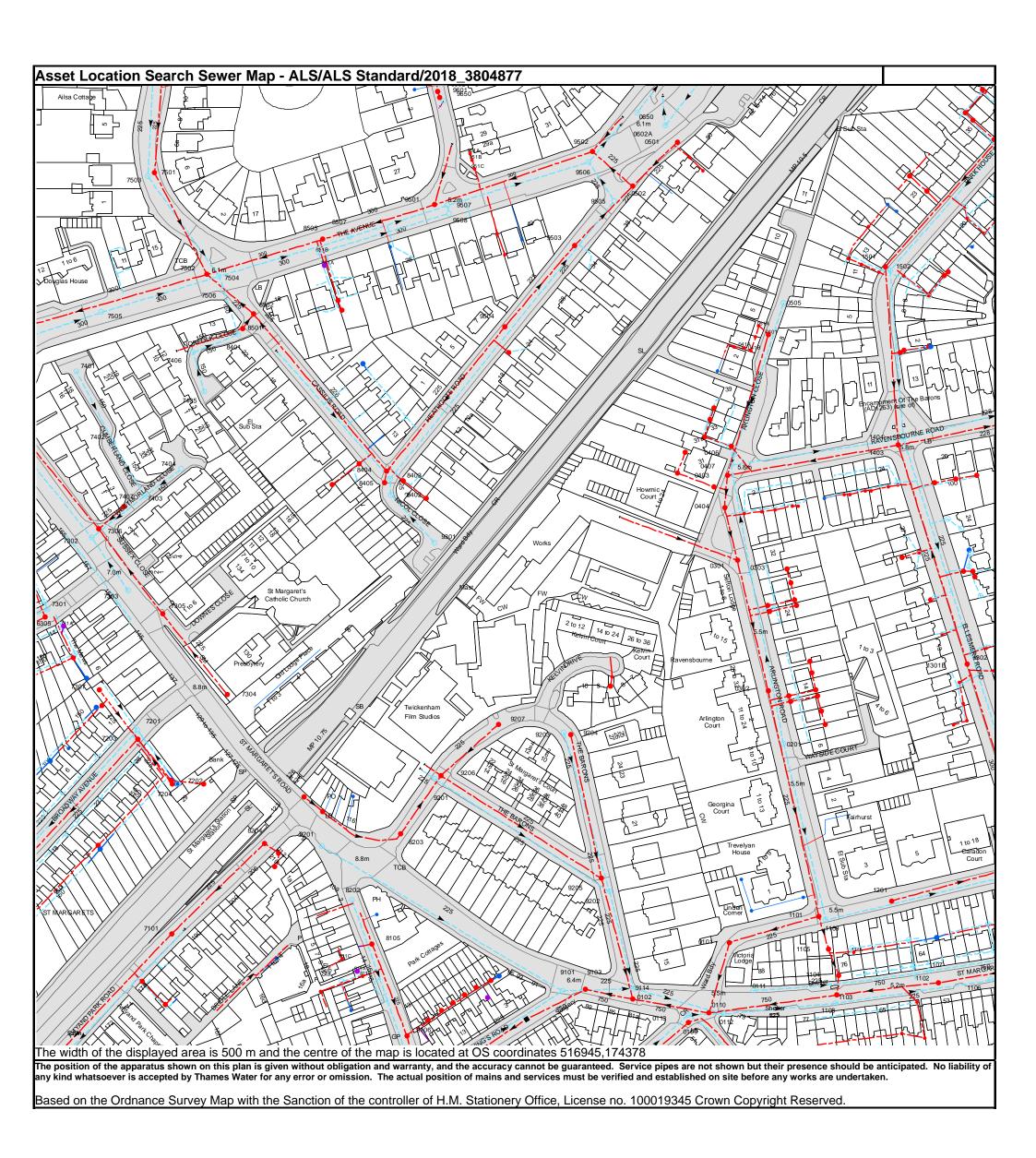
#### **Valves Operational Sites** General PurposeValve **Booster Station** Air Valve Other Pressure ControlValve Other (Proposed) Customer Valve Pumping Station Service Reservoir **Hydrants** Shaft Inspection Single Hydrant Treatment Works Meters Unknown Meter Water Tower **End Items Other Symbols** Symbol indicating what happens at the end of L a water main. Data Logger Blank Flange Capped End **Emptying Pit** Undefined End Manifold Customer Supply Fire Supply

# Other Water Pipes (Not Operated or Maintained by Thames Water) Other Water Company Main: Occasionally other water company water pipes may overlap the border of our clean water coverage area. These mains are denoted in purple and in most cases have the owner of the pipe displayed along them. Private Main: Indiates that the water main in question is not owned by Thames Water. These mains normally have text associated with them indicating the diameter and owner of the pipe.



# Appendix J

**Thames Water Foul Sewer Records** 



<u>Thames Water Utilities Ltd</u>, Property Searches, PO Box 3189, Slough SL1 4W, DX 151280 Slough 13 T 0845 070 9148 Esearches@thameswater.co.uk I www.thameswater-propertysearches.co.uk

Manhole Reference	Manhole Cover Level	Manhole Invert Level
15NK 151A	n/a n/a	n/a n/a
15NL	n/a n/a	n/a n/a
15NE	n/a	n/a
15KF	n/a	n/a
16NH	n/a	n/a
16NJ 16NC	n/a n/a	n/a n/a
16NK	n/a	n/a
16NL	n/a	n/a
16ND	n/a	n/a
16NM	n/a	n/a
12NK 13ML	n/a n/a	n/a n/a
13NC	n/a	n/a
13MK	n/a	n/a
13JN	n/a	n/a
1301B	5.59	4.8
1302 13NL	5.62 n/a	4.3 n/a
13NH	n/a	n/a
13LE	n/a	n/a
15LN	n/a	n/a
15MH	n/a	n/a
15MF	n/a	n/a
151D 15ME	n/a n/a	n/a n/a
15LM	n/a	n/a
1501	7.4	4.63
151C	n/a	n/a
1502	7.24	4.19
151B 1403	n/a 5.85	n/a 4.36
1403 14NE	5.85   n/a	1.36 n/a
14NK	n/a	n/a
1404	5.83	3.24
15KM	n/a	n/a
14NL	n/a	n/a
15LF 15KC	n/a n/a	n/a n/a
15JN	n/a	n/a
14NM	n/a	n/a
15LH	n/a	n/a
15LC	n/a	n/a
14NH	n/a	n/a
15LJ 15LK	n/a n/a	n/a n/a
15NJ	n/a	n/a
15NC	n/a	n/a
141A	n/a	n/a
14LH	n/a	n/a
14LF	n/a	n/a
14LE 14LD	n/a n/a	n/a n/a
14LC	n/a	n/a
14KH	n/a	n/a
14MH	n/a	n/a
13JJ	n/a	n/a
13JH 13 JC	n/a	n/a
13JC 14KD	n/a n/a	n/a n/a
14MN	n/a	n/a
14KE	n/a	n/a
13LH	n/a	n/a
13KF	n/a	n/a
13KD 13LC	n/a n/a	n/a n/a
13KM	n/a	n/a
13KH	n/a	n/a
13KJ	n/a	n/a
14KF	n/a	n/a
1106 11LJ	5.11 n/a	3.64 n/a
11LK	n/a n/a	n/a n/a
1101	5.43	3.25
011A	n/a	n/a
1201	5.37	3.19
021B	n/a	n/a
021A 0201	n/a 5.35	n/a 4.06
0201 12NH	5.35   n/a	4.06 n/a
12NL	n/a	n/a
13HK	n/a	n/a
03NK	n/a	n/a
03ML	n/a	n/a
03NE	n/a	n/a
13HJ 0302	n/a 5.86	n/a 3.59
0302 13HH	5.86   n/a	3.59 n/a
13ND	n/a	n/a
	_	

Manhala Pafaranaa	Manhala Cayar Layal	Manhala Invest Lavel
Manhole Reference 03NH	Manhole Cover Level	Manhole Invert Level
13MH	n/a	n/a
13MD 03MD	n/a n/a	n/a n/a
03LE	n/a	n/a
03ME 03LK	n/a	n/a
03LL	n/a n/a	n/a n/a
13LN	n/a	n/a
13LK 0102	n/a 6.23	n/a 2.87
0114	6.16	4.1
0109 0113	5.48 5.63	2.81 4.04
0110	5.48	2.16
0112 0101	5.38 5.56	3.94 2.89
0111	5.3	4.09
1109 1105	5.39 5.47	3.79 3
1108	5.1	3.75
1103 1104	5.27 5.55	2.24 2.94
11HF	n/a	n/a
111A 11NL	n/a n/a	n/a n/a
11KD	n/a	n/a
11KC 111C	n/a n/a	n/a n/a
111D	n/a	n/a
1107	5.21	3.86
11MD 1102	n/a n/a	n/a 2.31
81NL	n/a	n/a
91ML 91MM	n/a n/a	n/a n/a
91MN	n/a	n/a
91NC 9101	n/a 6.58	n/a 4.45
9103	6.7	2.06
63KJ 6305	n/a 6.28	n/a 3.48
7301	6.25	4.22
72NM 731A	n/a n/a	n/a n/a
721A	n/a	n/a
73NC 73NF	n/a n/a	n/a n/a
72KM	n/a	n/a
73MK 73NK	n/a n/a	n/a n/a
72ML	n/a	n/a
7307	n/a	n/a
72MH 73NM	n/a n/a	n/a n/a
7201	6.81	4.37
7203 7305	6.85 7.22	3.4 4.28
72KF	n/a	n/a
7204 72KL	6.35 n/a	4.34 n/a
7202	6.3	4.55
72KH 91ND	n/a n/a	n/a n/a
91NM	n/a	n/a
811B 811A	n/a n/a	n/a n/a
811C	n/a	n/a
811D 8105	n/a 8.08	n/a 5.36
811F	n/a	n/a
8202 9202	8.49 6.1	5.62 4.3
9205	6.23	3
82NM 82NK	n/a n/a	n/a n/a
8201	n/a	n/a
8204 8203	9.62 7.49	4.38 3.58
821C	n/a	n/a
821B 821A	n/a	n/a n/a
9201	n/a 6.77	4.71
9206	6.73	3.38
9204 9203	6.18 6.24	3.28 4.67
9207	6.3	3.53
7304 93NL	7.16 n/a	4.8 n/a
93NK	n/a	n/a
71ND 71NE	n/a n/a	n/a n/a
7101	7.01	3.83

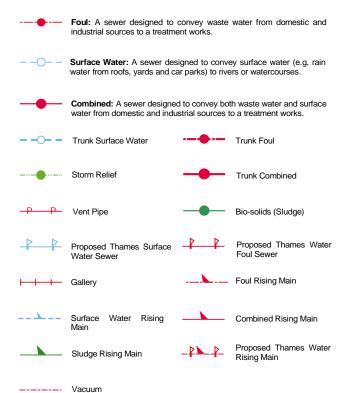
Manhole Reference	Manhole Cover Level	Manhole Invert Level
81NC 81NF	n/a n/a	n/a n/a
81ML	n/a	n/a
81NJ	n/a	n/a
8106 911C	7.56 n/a	5.11 n/a
04NF	n/a	n/a
04NH	n/a	n/a
04NK 041E	n/a n/a	n/a n/a
0404	5.59	3.83
0403 04MH	5.58 n/a	3.87 n/a
0407	5.67	3.51
04ND	n/a	n/a
0406 041C	5.67 n/a	4.03 n/a
0301	5.51	3.76
041A 04LF	n/a n/a	n/a n/a
04KC	n/a	n/a
0303	5.26	3.71
041B 041D	n/a n/a	n/a n/a
051A	n/a	n/a
04KD	n/a	n/a
0401 04KE	n/a n/a	n/a n/a
0505	6.18	4.72
03LN 03LM	n/a n/a	n/a n/a
04KF	n/a n/a	n/a
04KH	n/a	n/a
9301 84NJ	4.65 n/a	3.78 n/a
84NH	n/a	n/a
04NL	n/a n/a	n/a n/a
04NM 04NE	n/a n/a	n/a
94NK	n/a	n/a
9504 95NE	5.2 n/a	4.2 n/a
9503	5.7	4.05
951F	n/a	n/a
95MN 9508	n/a 5.26	n/a 2.52
9507	5.41	2.24
9501 9505	5.35 5.82	3.77 2.53
0502	6.09	4.01
051D	n/a	n/a
951C 9506	n/a 5.89	n/a 2.09
951B	n/a	n/a
051C 951A	n/a n/a	n/a n/a
9502	5.69	3.9
0501	6.48	5.41
0602A 0650	6.17 5.76	4.67 n/a
9650	5.48	2.98
9601	5.48 5.57	n/a
9602 861C	5.57 n/a	3.38 n/a
7303	7.31	4.98
7403 7503	7.12 6.78	5.8 4.26
7501	6.73	3.96
7404	7.29 7.12	6.18 6.05
7406 7405	7.12 7.34	6.23
7502	6.22	3.81
7504 7506	6.18 n/a	2.55 n/a
8401	6.52	5.78
8501	6.13	5.09
8502 851B	6.07 5.38	3.79 3.53
8505	n/a	3.68
851A 84ML	n/a n/a	n/a n/a
85MF	n/a	n/a
85MH	n/a 5.45	n/a
8507 84MK	5.45 n/a	2.3 n/a
84LM	n/a	n/a
8405 8404	5.23 5.33	n/a 3.96
8404 8403	5.33	3.13
851C	n/a	n/a
8402 7401	5.22 7.3	3.63 6.87

7306	7.13	E 24
	17.10	5.34
7505	6.77	2.6
7402	7.37	6.23
7407	6.86	4.04

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.



#### Public Sewer Types (Operated & Maintained by Thames Water)



#### **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

/ Inle

#### Notes:

- 1) All levels associated with the plans are to Ordnance Datum Newlyn.
- 2) All measurements on the plans are metric.
- Arrows (on gravity fed sewers) or flecks (on rising mains) indicate direction of flow.
- 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.

6) The text appearing alongside a sewer line indicates the internal diameter of the pipe in milimetres. Text next to a manhole indicates the manhole reference number and should not be taken as a measurement. If you are unsure about any text or symbology present on the plan, please contact a member of Property Insight on 0845 070 9148.

#### **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.)

Summit

#### Areas

Lines denoting areas of underground surveys, etc.

Agreement

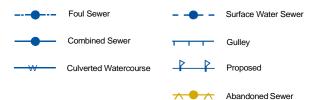
Operational Site

Chamber Chamber

Tunnel

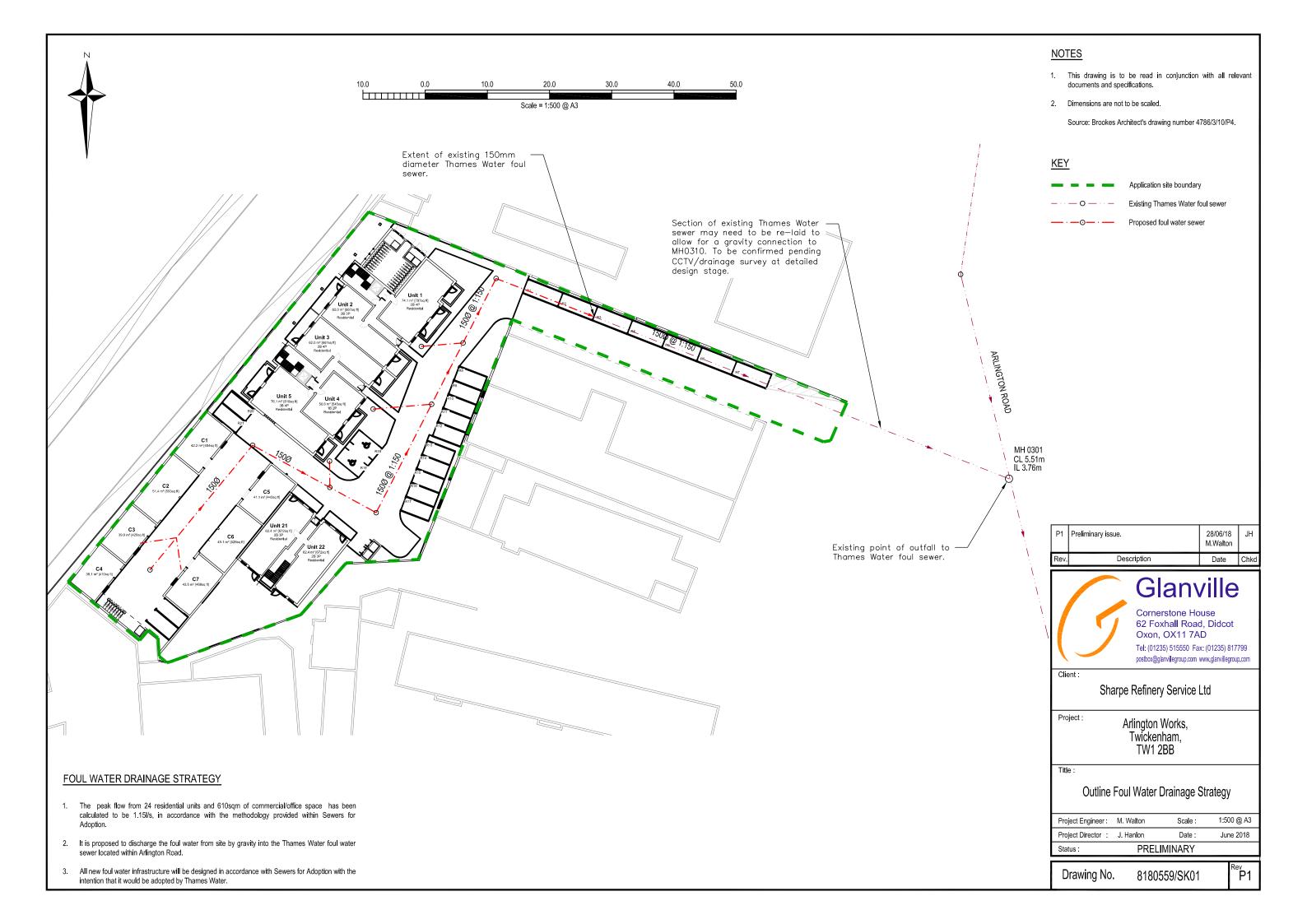
Conduit Bridge

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





# Appendix K Outline Foul Water Drainage Strategy





# Appendix L

**Thames Water Pre-Planning Enquiry** 



Mr J Hanlon Glanville Consultants 62 Foxhall Rd Didcot Oxon OX11 7AD

Our ref: DS6049763

0800 009 3921 Monday to Friday, 8am to 5pm

18<sup>TH</sup> June 2018

### **Pre-planning enquiry: Wastewater Capacity check**

#### Dear Mr Hanlon

Thank you for providing details on your development with the Pre-Planning application dated 8th June 18' for Arlington Works Twickenham TW1 2BB { Brownfeild site of 680m2 of commercial area developed to :- 18 houses + 6 flats + 656 m2 of ices}.

#### Foul

If your proposals progress in line with the details you've provided as above, we're pleased to confirm that there will be sufficient sewerage capacity to serve your foul discharges from your development.

#### **Surface Water**

In considering your surface water needs, we support the use of sustainable drainage on development sites.

The surface water drainage strategy should follow policy 5.13 of the London Plan. Typically greenfield run off rates of 5l/s/ha should be aimed for using the drainage hierarchy. The hierarchy lists the preference for surface water disposal as follows; Store Rainwater for later use > Use infiltration techniques, such as porous surfaces in non-clay areas > Attenuate rainwater in ponds or open water features for gradual release > Discharge rainwater direct to a watercourse > Discharge by storing and attenuating rainwater direct to a surface water sewer/drain > Discharge by storing and attenuating rainwater to the combined sewer.

Please refer to the attached document titled "Planning your wastewater" attached to this letter, specifically to notes relating to surface water. Also I would advise you to liaise with the LA and discuss their criteria regarding surface water discharges in that area and adhere to their stipulation. If you agree & adhere to a LA stipulation then TW will be able to accommodate that agreed discharge.

This confirmation is valid for 12 months or for the life of any planning approval that this information is used to support, to a maximum of three years.

Please note that you must keep us informed of any changes to your design – for example, an increase in the number or density of homes. Such changes could mean there is no longer sufficient sewerage capacity.

#### What happens next?

Please make sure you submit your connection application, when you are ready, giving us at least 21 days' notice of the date you wish to make your new connection/s.

If you've any further questions, please contact me.

Yours sincerely

#### Siva Sivarajan

Developer Services- Wastewater Adoptions Engineer Office:0203 577 7752 Mobile: 07747842608 siva.sivarajan@thameswater.co.uk

Thames Water Utilities Ltd, Clearwater Court, Vastern Road, Reading, Berkshire, RG1 8DB Find us online at <a href="developers.thameswater.co.uk">developers.thameswater.co.uk</a>



TW internal ref: DTS 58243



Cornerstone House, 62 Foxhall Road, Didcot, Oxon OX11 7AD

Tel: (01235) 515550 Fax: (01235) 817799

Postbox@glanvillegroup.com www.glanvillegroup.com

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