

GREEN

Club

B481

Drive

Caversham Park

White House

Dominos Pizza  
Reading - Caversham

3

Queensway

The Hill Primary School

Reading RG4 3TZ

United Kingdom

B481

Express

1

4

Caversham Park

2

Reading Borough  
Council

## Legend

### CAUTION AREA

 BT.CAUTION\_AREA

### EQUIPMENT

 FIBRE, TCODE  
 COPPER, CABINET  
 COPPER, DP

### DUCT

 AERIAL  
 TUNNEL  
 DUCT

### PROPOSED

 AERIAL  
 DUCT

### STRUCTURE

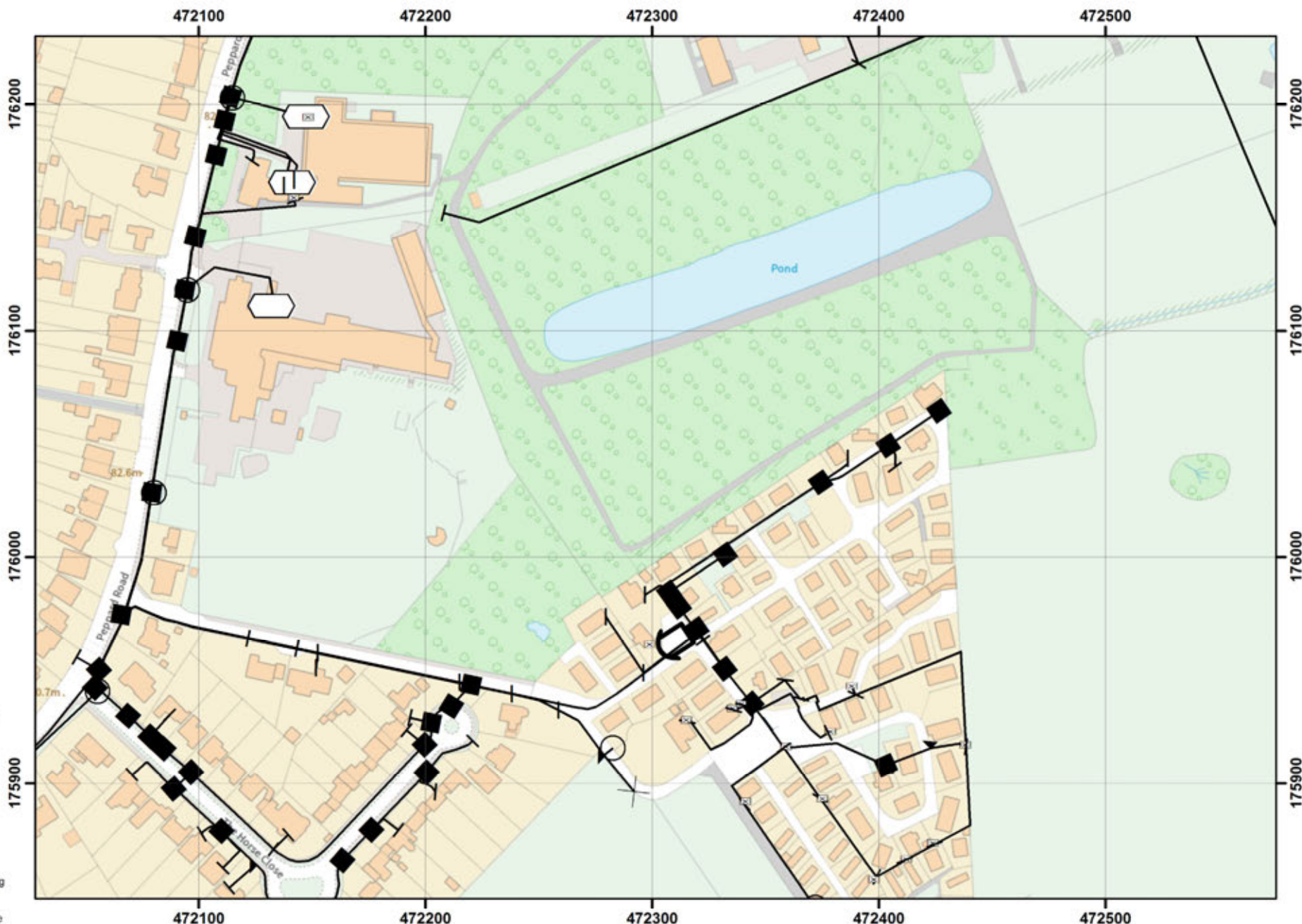
 YCODE  
 CABINET SHELL  
 SPLIT COUPLING  
 POLE  
 KIOSKS  
 MANHOLE  
 JOINTBOX  
 CHANGE OF STATE  
 DUCT TEE

### PROPOSED

 MANHOLE  
 JOINTBOX  
 DUCT TEE

Other proposed plant is shown using dashed lines.

BT symbols not listed above may be disregarded.



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**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.

Existing BT plant may not be recorded.  
 Information valid at time of preparation.

**CLICK BEFORE YOU DIG**  
 FOR PROFESSIONAL FREE ON SITE ASSISTANCE, PLEASE  
 TO COMMENT ON EXCAVATION, SPREADS, WELLS, LISTS  
 LOCATE AND MARKING SERVICE  
 email: [clb@openreach.co.uk](mailto:clb@openreach.co.uk)

ADVANCE NOTICE REQUIRED  
 (Office Hours Monday - Friday 08:00 to 17:00)



### PLANT INFORMATION REPLY

NNHC REFERENCE : C21898/NNHC/21 DATE: 03/12/21 MAP 1

CAVERSHAM PARK, READING, RG4 8TZ

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## Legend

### CAUTION AREA

 BT.CAUTION\_AREA

### EQUIPMENT

 FIBRE, TCODE  
 COPPER, CABINET  
 COPPER, DP

### DUCT

 AERIAL  
 TUNNEL  
 DUCT

### PROPOSED

 AERIAL  
 DUCT

### STRUCTURE

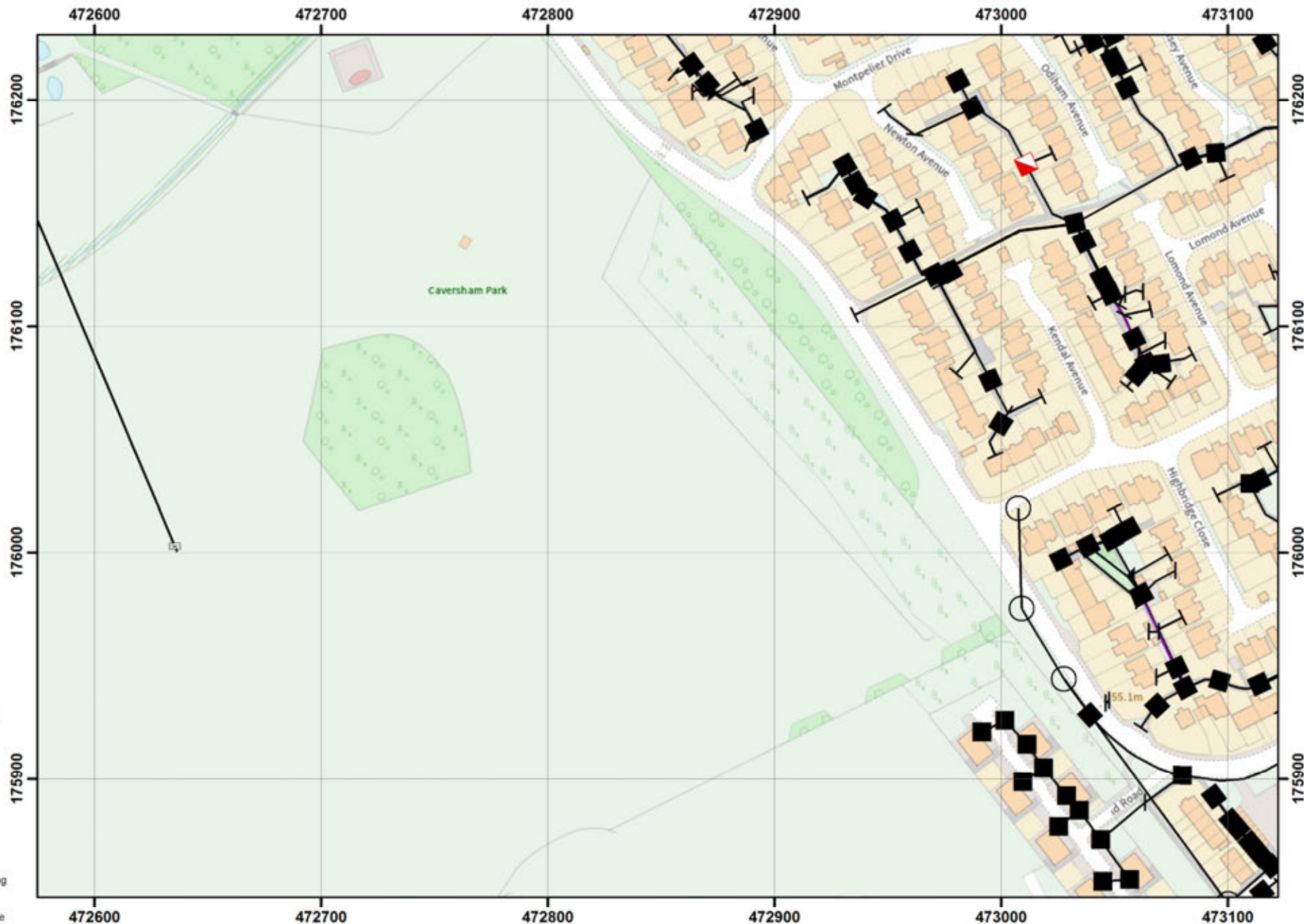
 YCODE  
 CABINET SHELL  
 SPLIT COUPLING  
 POLE  
 KIOSKS  
 MANHOLE  
 JOINTBOX  
 CHANGE OF STATE  
 DUCT TEE

### PROPOSED

 MANHOLE  
 JOINTBOX  
 DUCT TEE

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Existing BT plant may not be recorded.  
 Information valid at time of preparation.

#### CLICK BEFORE YOU DIG

FOR PROFESSIONAL FREE ON SITE ASSISTANCE PRIOR TO COMMENCEMENT OF EXCAVATION WORKS INCLUDING LOCATE AND MARKING SERVICE  
 email [cbvd@openreach.co.uk](mailto:cbvd@openreach.co.uk)

ADVANCE NOTICE REQUIRED  
 (Office Hours Monday - Friday 08.00 to 17.00)



#### PLANT INFORMATION REPLY

NNHC REFERENCE : C21898/NNHC/21 DATE: 03/12/21 MAP 2

CAVERSHAM PARK , READING, RG4 8TZ

openreach

## Legend

### CAUTION AREA

 BT.CAUTION\_AREA

### EQUIPMENT

 FIBRE, TCODE  
 COPPER, CABINET  
 COPPER, DP

### DUCT

 AERIAL  
 TUNNEL  
 DUCT

### PROPOSED

 AERIAL  
 DUCT

### STRUCTURE

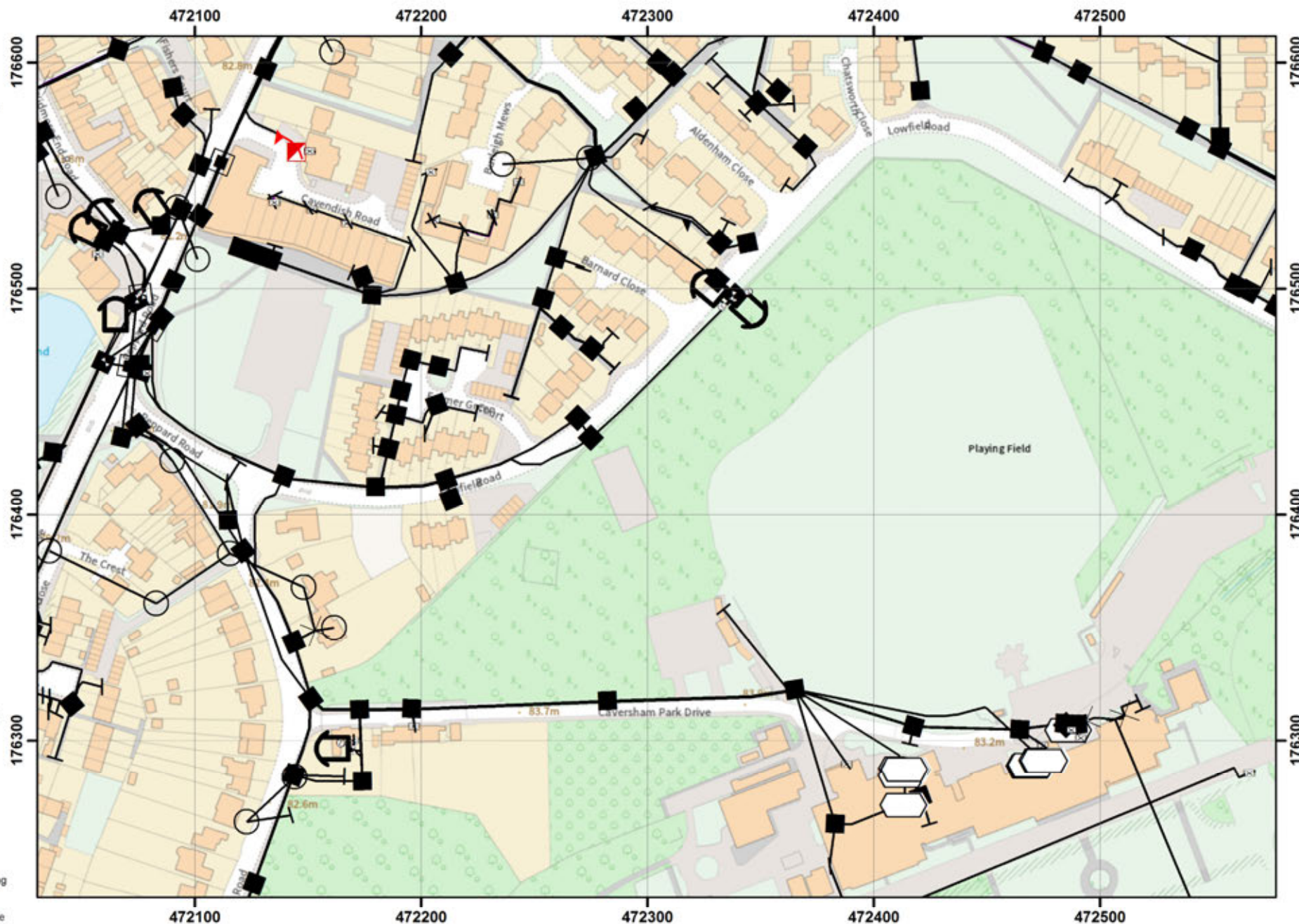
 YCODE  
 CABINET SHELL  
 SPLIT COUPLING  
 POLE  
 KIOSKS  
 MANHOLE  
 JOINTBOX  
 CHANGE OF STATE  
 DUCT TEE

### PROPOSED

 MANHOLE  
 JOINTBOX  
 DUCT TEE

Other proposed plant is shown using dashed lines.

BT symbols not listed above may be disregarded.



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Existing BT plant may not be recorded.  
 Information valid at time of preparation.

#### CLICK BEFORE YOU DIG

FOR PROFESSIONAL USE ONLY. ADVISORY FOR  
 TO COMMENT/REPORT EXCAVATION WORKS INCLUDING  
 LOCATE AND MARKING SERVICE  
 email: [cbvd@openreach.co.uk](mailto:cbvd@openreach.co.uk)

ADVANCE NOTICE REQUIRED  
 (Office Hours Monday - Friday 08:00 to 17:00)



#### PLANT INFORMATION REPLY

NNHC REFERENCE : C21898/NNHC/21 DATE: 03/12/21 MAP 3

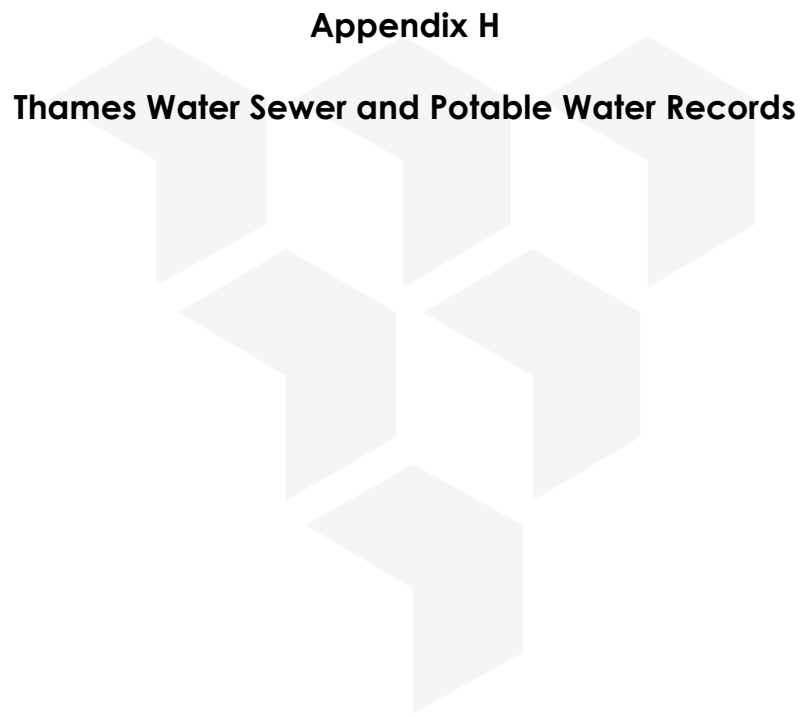
CAVERSHAM PARK, READING, RG4 8TZ

openreach



## **Appendix H**

### **Thames Water Sewer and Potable Water Records**



TM Property Service Ltd.  
743360 Swindon 31

|                         |                                                  |
|-------------------------|--------------------------------------------------|
| Search address supplied | Caversham Park, Peppard Road, Caversham, RG4 8TZ |
| Your reference          | 20398534                                         |
| Our reference           | CDWS/CDWS Standard/2020_4167880                  |
| Received date           | 6 March 2020                                     |
| Search date             | 17 March 2020                                    |

### Keeping you up-to-date

#### Commercial Drainage and Water Enquiry

The Commercial Drainage and Water Enquiry is specifically designed for those purchasing or leasing land or commercial property.

With comprehensive information regarding water and sewerage services and infrastructure assets, combined with appropriate guarantees for commercial property and land transactions, the Commercial Drainage and Water Enquiry mitigates risk and provides peace of mind for commercial property professionals and their advisers.



Thames Water Utilities Ltd  
Property Searches, PO Box 3189, Slough SL1 4WW  
DX 151280 Slough 13



[searches@thameswater.co.uk](mailto:searches@thameswater.co.uk)  
[www.thameswater-propertysearches.co.uk](http://www.thameswater-propertysearches.co.uk)



0845 070 9148

## Question

## Summary Answer

### Maps, Wayleaves, Easements, Manhole Cover and Invert levels

|     |                                                                                                                                                                                        |              |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 1.1 | Where relevant, please include a copy of an extract from the public sewer map.                                                                                                         | Map Provided |
| 1.2 | Where relevant, please include a copy of an extract from the map of waterworks.                                                                                                        | Map Provided |
| 1.3 | Is there a wayleave/easement agreement giving Thames Water the right to lay or maintain assets or right of access to pass through private land in order to reach the Company's assets? | No           |
| 1.4 | On the copy extract from the public sewer map, please show manhole cover, depth and invert levels where the information is available.                                                  | See Details  |

### Drainage

|       |                                                                                                                                                                                          |                  |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| 2.1   | Does foul water from the property drain to a public sewer?                                                                                                                               | See Details      |
| 2.2   | Does surface water from the property drain to a public sewer?                                                                                                                            | See Details      |
| 2.3   | Is a surface water drainage charge payable?                                                                                                                                              | See Details      |
| 2.4   | Does the public sewer map indicate any public sewer, disposal main or lateral drain within the boundaries of the property?                                                               | No               |
| 2.4.1 | Does the public sewer map indicate any public pumping station or any other ancillary apparatus within the boundaries of the property?                                                    | No               |
| 2.5   | Does the public sewer map indicate any public sewer within 30.48 metres (100 feet) of any buildings within the property?                                                                 | See Details      |
| 2.5.1 | Does the public sewer map indicate any public pumping station or any other ancillary apparatus within the 50metres of any buildings within the property?                                 | No               |
| 2.6   | Are any sewers or lateral drains serving, or which are proposed to serve the property, the subject of an existing adoption agreement or an application for such an agreement?            | No               |
| 2.7   | Has a sewerage undertaker approved or been consulted about any plans to erect a building or extension on the property over or in the vicinity of a public sewer, disposal main or drain? | No               |
| 2.8   | Is the building which is or forms part of the property, at risk of internal flooding due to overloaded public sewers?                                                                    | Not At Risk      |
| 2.9   | Please state the distance from the property to the nearest boundary of the nearest sewage treatment works.                                                                               | 3.563 Kilometres |

### Water

|     |                                                                                                                                                                              |             |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 3.1 | Is the property connected to mains water supply?                                                                                                                             | See Details |
| 3.2 | Are there any water mains, resource mains or discharge pipes within the boundaries of the property?                                                                          | No          |
| 3.3 | Is any water main or service pipe serving or which is proposed to serve the property, the subject of an existing adoption agreement or an application for such an agreement? | No          |
| 3.4 | Is the property at risk of receiving low water pressure or flow?                                                                                                             | See Details |
| 3.5 | What is the classification of the water supply for the property?                                                                                                             | See Details |
| 3.6 | Please include details of the location of any water meter serving the property.                                                                                              | See Details |

### Question

### Summary Answer

#### Charging

|       |                                                                                                                 |              |
|-------|-----------------------------------------------------------------------------------------------------------------|--------------|
| 4.1.1 | Who are the sewerage undertakers for the area?                                                                  | Thames Water |
| 4.1.2 | Who are the water undertakers for the area?                                                                     | Thames Water |
| 4.2   | Who bills the property for sewerage services?                                                                   | See Details  |
| 4.3   | Who bills the property for water services?                                                                      | See Details  |
| 4.4   | Is there a meter installed at this property?                                                                    | No           |
| 4.5   | Are there any trade effluent consents relating to this site/property for disposal of chemically enhanced waste? | No           |

**Search address supplied:** Caversham Park, Peppard Road, Caversham, RG4 8TZ

Any new owner or occupier will need to contact Thames Water on 0800 316 9800 or log onto our website [www.thameswater.co.uk](http://www.thameswater.co.uk) and complete our online form to change the water and drainage services bills to their name.

The following records were searched in compiling this report: - the map of public sewers, the map of waterworks, water and sewer billing records, adoption of public sewer records, building over public sewer records, the register of properties subject to internal foul flooding, the register of properties subject to poor water pressure and the drinking water register.

Thames Water Utilities Ltd (TWUL) holds all of these.

TWUL, trading as Property Searches, are responsible in respect of the following:-

- (i) any negligent or incorrect entry in the records searched
- (ii) any negligent or incorrect interpretation of the records searched
- (iii) any negligent or incorrect recording of that interpretation in the search report
- (iv) and compensation payments

Please refer to the attached [Terms & Conditions](#). Customers and clients are asked to note these terms, which govern the basis on which this Commercial Drainage and Water search is supplied.

**Maps, Wayleaves, Easements, Manhole Cover and Invert levels**

**1.1 Where relevant, please include a copy of an extract from the public sewer map.**

A copy of an extract of the public sewer map is included, showing the public sewers, disposal mains and lateral drains in the vicinity of the property.

**1.2 Where relevant, please include a copy of an extract from the map of waterworks.**

A copy of an extract of the map of waterworks is included, showing water mains, resource mains or discharge pipes in the vicinity of the property.

**1.3 Wayleaves & Easements**

**Is there a wayleave/easement agreement giving Thames Water the right to lay or maintain assets or right of access to pass through private land in order to reach the Company's assets?**

No.

**1.4 Manhole**

**On the copy extract from the public sewer map, please show manhole cover, depth and invert levels where the information is available.**

Details of any manhole cover and invert levels applicable to this site are enclosed.

**Drainage**

**2.1 Does foul water from the property drain to a public sewer?**

The enquiry appears to relate to a plot of land or a recently built property. It is recommended that drainage proposals are checked with the developer.

**2.2 Does surface water from the property drain to a public sewer?**

Records indicate that this enquiry relates to a plot of land or a recently built property. It is recommended that the drainage proposals are checked with the developer. If the property was constructed after 6th April 2015 the Surface Water drainage may be served by a Sustainable Drainage System (SuDS). Further information may be available from the Developer.

**2.3 Is a surface water drainage charge payable?**

This enquiry appears to relate to a plot of land or a recently built property. It is recommended that charging proposals are checked with the developer. If the property was constructed after 6th April 2015 the Surface Water drainage may be served by a Sustainable Drainage System (SuDS). Further information may be available from the Developer.

**2.4 Does the public sewer map indicate any public sewer, disposal main or lateral drain within the boundary of the property?**

The public sewer map indicates that there are no public sewers, disposal mains or lateral drains within the boundaries of the property. However, from the 1st October 2011 there may be lateral drains and/or public sewers which are not recorded on the public sewer map but which may prevent or restrict development of the property.

**2.4.1 Does the public sewer map indicate any public pumping station or any other ancillary apparatus within the boundaries of the property?**

The public sewer map included indicates that there is no public pumping station within the boundaries of the property.

**2.5 Does the public sewer map indicate any public sewer within 30.48 metres (100 feet) of any buildings within the property?**

The public sewer map indicates that there are no public sewers within 30.48 metres (100 feet) of any buildings within the property.

However, from the 1st October 2011 many private sewers were transferred into public ownership and may not be recorded on the public sewer map and it is our professional opinion that if the property is connected to a foul sewer it is likely that there will be a public sewer within 30.48 metres (100 feet) of any buildings within the property.

**2.5.1 Does the public sewer map indicate any public pumping station or any other ancillary apparatus within 50 metres of any buildings within the property?**

The public sewer map included indicates that there is no public pumping station within 50 metres of any buildings within the property.

**2.6 Are any sewers or lateral drains serving, or which are proposed to serve, the property the subject of an existing adoption agreement or an application for such an agreement?**

Records confirm that Foul sewers serving the development, of which the property forms part are not the subject of an existing adoption agreement or an application for such an agreement.

The Surface Water sewer(s) and/or Surface Water lateral drain(s) are not the subject of an adoption agreement.

**2.7 Has a sewerage undertaker approved or been consulted about any plans to erect a building or extension on the property over or in the vicinity of a public sewer, disposal main or drain?**

There are no records in relation to any approval or consultation about plans to erect a building or extension on the property over or in the vicinity of a public sewer, disposal main or drain. However, the sewerage undertaker might not be aware of a building or extension on the property over or in the vicinity of a public sewer, disposal main or drain.

**2.8 Is the building which is or forms part of the property, at risk of internal flooding due to overloaded public sewers?**

The property is not recorded as being at risk of internal flooding due to overloaded public sewers.

From the 1st October 2011 most private sewers, disposal mains and lateral drains were transferred into public ownership. It is therefore possible that a property may be at risk of internal flooding due to an overloaded public sewer which the sewerage undertaker is not aware of. For further information it is recommended that enquiries are made of the vendor.

**2.9 Please state the distance from the property to the nearest boundary of the nearest sewage treatment works.**

The nearest sewage treatment works is Sonning Common STW which is 3.563 kilometres to the north of the property.

**Water**

**3.1 Is the property connected to mains water supply?**

The enquiry appears to relate to a plot of land or a recently built property. It is recommended that the water proposals are checked with the developer.

**3.2 Are there any water mains, resource mains or discharge pipes within the boundary of the property?**

The map of waterworks does not indicate any water mains, resource mains or discharge pipes within the boundaries of the property.

**3.3 Is any water main or service pipe serving, or which is proposed to serve, the property the subject of an existing adoption agreement or an application for such an agreement?**

Records confirm that water mains or service pipes serving the property are not the subject of an existing adoption agreement or an application for such an agreement.

**3.4 Is the property at risk of receiving low water pressure or flow?**

Records confirm that the property is not recorded on a register kept by the water undertaker as being at risk of receiving low water pressure or flow.

**3.5 What is the classification of the water supply for the property?**

The water supplied to the property has an average water hardness of 135.3mg/l calcium which is defined as HARD by ThamesWater.

**3.6 Please include details of the location of any water meter serving the property.**

This enquiry appears to relate to a plot of land or a recently built property. It is recommended that drainage proposals are checked with the developer.

## Charging

### 4.1.1 – Who is responsible for providing the sewerage services for the property?

Thames Water Utilities Limited, Clearwater Court, Reading, RG1 8DB is the sewerage undertaker for the area.

### 4.1.2 – Who is responsible for providing the water services for the property?

Thames Water Utilities Limited, Clearwater Court, Reading, RG1 8DB is the water undertaker for the area.

### 4.2 Who bills the property for sewerage services?

If you wish to know who bills the sewerage services for this property then you will need to contact the current owner. For a list of all potential retailers of sewerage services for the property please visit [www.open-water.org.uk](http://www.open-water.org.uk)

### 4.3 Who bills the property for water services?

If you wish to know who bills the water services for this property then you will need to contact the current owner. For a list of all potential retailers of water services for the property please visit [www.open-water.org.uk](http://www.open-water.org.uk)

### 4.4 Is there a meter installed at this property?

Records indicate that there is no meter installed at this property.

### 4.5 Trade Effluent Consent

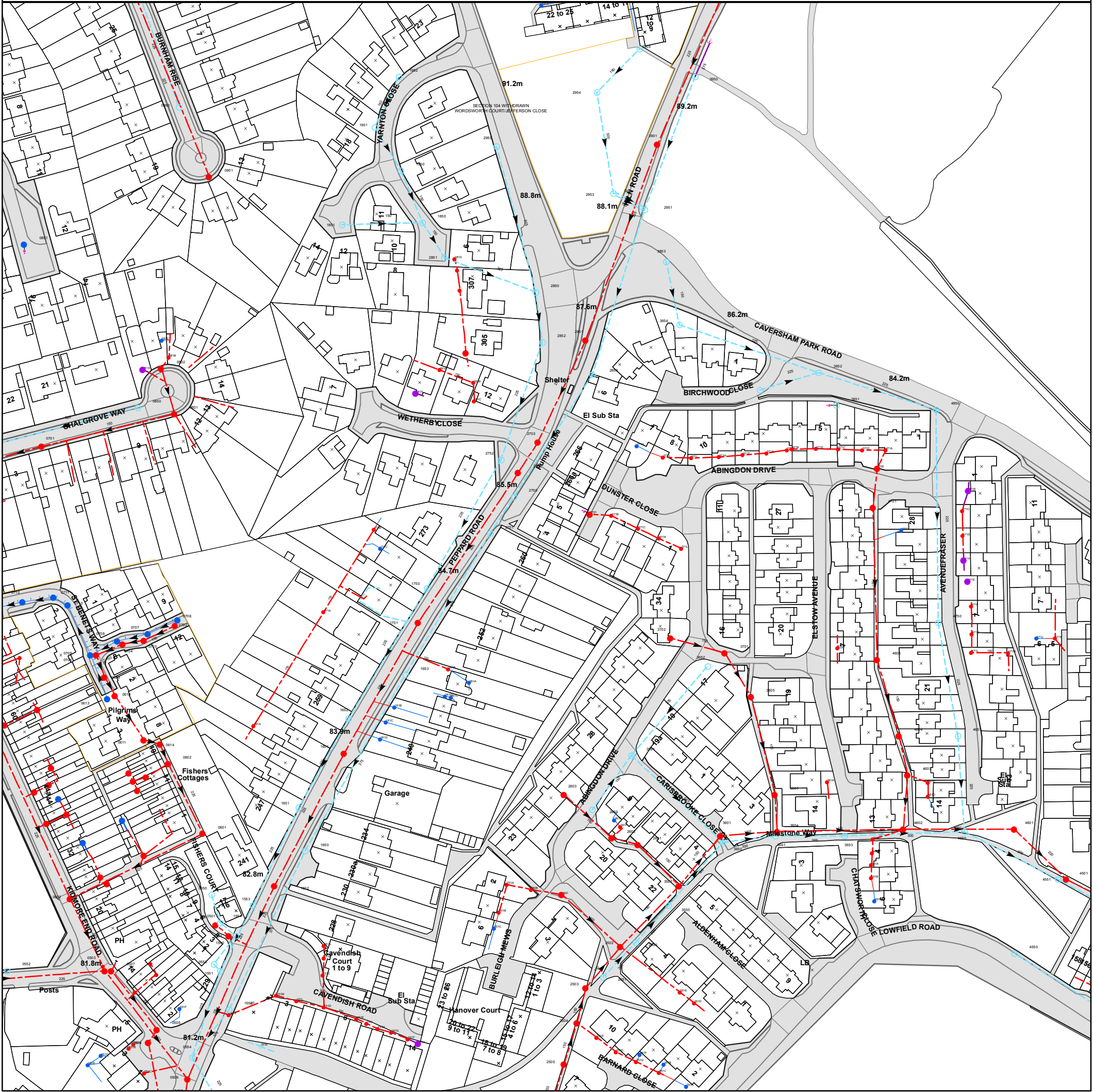
**Are there any trade effluent consents relating to this site/property for disposal of chemically enhanced waste?**

No.

#### Payment for this Search

**A charge will be added to your suppliers account.**

Please note that none of the charges made for this report relate to the provision of Ordnance Survey mapping information.



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 before any works are undertaken. Crown copyright Reserved

**Scale:** 1:1792  
**Width:** 500m  
**Printed By:** G1KANAGA  
**Print Date:** 18/03/2020  
**Map Centre:** 472250,176750  
**Grid Reference:** SU7276NW

**Comments:**

CDWS/CDWS Standard/2020\_4167880

NB: Level quoted in metres Ordnance Newlyn Datum. The value -9999.00 indicates no Survey information is available.

| REFERENCE | COVER LEVEL | INVERT LEVEL |
|-----------|-------------|--------------|
| 4650      | 77.6        | 74.35        |
| 0851      | 86.48       | 85.37        |
| 1550      | 82.04       | 81.3         |
| 0552      | 82.04       | 81.34        |
| 1501      | 82.04       | 80.72        |
| 1701      | 84.38       | 82.39        |
| 06YR      |             |              |
| 0711      |             |              |
| 28ZX      |             |              |
| 3601      | 80.28       | 78.35        |
| 3701      | 82.5        | 80.77        |
| 2750      | 85.62       | 83.94        |
| 3651      | 79.79       | 78.3         |
| 0901      | 88.87       | 87.08        |
| 0550      | 82.47       | 81.51        |
| 0501      | 82.21       | 80.87        |
| 3950      |             |              |
| 1554      | 82.23       | 81.4         |
| 0607      |             |              |
| 1502      | 82.68       | 80.55        |
| 2950      | 90.21       | 88.81        |
| 0801      | 86.89       | 85.29        |
| 0950      | 89.43       | 87.75        |
| 0601      |             |              |
| 3652      | 82.59       | 81.33        |
| 3501      | 80.79       | 78.89        |
| 3605      | 81.69       | 80.19        |
| 4604      | 80.37       | 78.79        |
| 4750      | 81.3        | 80.13        |
| 0710      |             |              |
| 05YZ      |             |              |
| 1952      | 90.65       | 88.9         |
| 3901      | 88.95       | 85.77        |
| 4605      | 81.24       | 79.88        |
| 0707      |             |              |
| 2951      | 88.11       | 86.83        |
| 3853      | 87.86       | 85.62        |
| 3702      | 83.29       | 81.45        |
| 3852      | 85.79       | 84.08        |
| 06XP      |             |              |
| 06XT      |             |              |
| 2504      | 82.17       | 80.28        |
| 2651      | 82.17       | 80.38        |
| 3653      | 79.19       | 77.72        |
| 06WT      |             |              |
| 1951      | 90.09       | 88.41        |
| 1650      | 83.03       | 81.73        |
| 2852      |             |              |
| 4550      | 80.16       | 78.51        |
| 0505      | 80.95       | 78.58        |
| 06ZW      |             |              |
| 1652      | 83.75       | 82.86        |
| 2801      | 87.44       | 85.4         |
| 1851      | 88.7        | 87.58        |
| 2850      | 87.81       | 86.5         |
| 2551      | 81.68       | 80.11        |
| 0611      |             |              |
| 0614      |             |              |
| 0610      |             |              |
| 0704      |             |              |
| 2954      | 89.2        | 87.5         |
| 4651      | 79.73       | 78.21        |
| 3603      | 80.26       | 78.82        |
| 2502      | 81.45       | 79.7         |
| 0507      | 81.77       | 79.09        |
| 2650      | 81.94       | 80.69        |
| 151B      |             |              |
| 361A      |             |              |
| 06WR      |             |              |
| 471A      |             |              |
| 371B      |             |              |
| 371G      |             |              |
| 371C      |             |              |
| 151C      |             |              |
| 2701      | 84.92       | 83.41        |
| 371K      |             |              |
| 371F      |             |              |
| 371I      |             |              |
| 271B      |             |              |
| 161C      |             |              |
| 261A      |             |              |

| REFERENCE | COVER LEVEL | INVERT LEVEL |
|-----------|-------------|--------------|
| 0712      |             |              |
| 0605      |             |              |
| 1850      | 88.52       | 87.17        |
| 1552      | 81.5        | 80.35        |
| 0554      | 81.07       |              |
| 1750      | 84.5        | 83.61        |
| 0603      |             |              |
| 0608      |             |              |
| 28ZW      |             |              |
| 3650      | 80.27       | 78.68        |
| 0606      |             |              |
| 2702      | 85.71       | 83.17        |
| 3604      | 79.8        | 77.93        |
| 28ZV      |             |              |
| 0553      | 81.89       | 81.21        |
| 2851      | 88.06       | 86.71        |
| 1551      | 81.81       | 81.12        |
| 0701      | 85.48       | 84.38        |
| 0604      |             |              |
| 2751      | 85.07       | 83.57        |
| 3850      | 85.45       | 84.72        |
| 0706      |             |              |
| 1653      |             |              |
| 1553      | 82.56       | 81.87        |
| 0602      |             |              |
| 3854      |             |              |
| 4850      |             |              |
| 4603      | 79.72       | 78.07        |
| 05YY      |             |              |
| 0502      | 82.44       | 81.02        |
| 0613      |             |              |
| 1950      | 89.44       | 87.82        |
| 4701      | 83.26       | 81.83        |
| 06WY      |             |              |
| 0504      | 80.84       | 78.54        |
| 4501      | 74.26       | 72.55        |
| 3550      | 80.93       | 79.18        |
| 2601      | 81.29       | 79.61        |
| 4551      | 74.43       | 72.77        |
| 0850      | 86.77       | 85.17        |
| 2603      |             |              |
| 06WW      |             |              |
| 2550      | 81.26       | 79.81        |
| 0802      | 87.07       | 85.77        |
| 06WZ      |             |              |
| 0709      |             |              |
| 2703      | 85.91       | 84.12        |
| 2505      | 82.46       | 80.82        |
| 4601      | 77.03       | 73.87        |
| 0708      |             |              |
| 1651      | 83.15       | 82.15        |
| 2503      | 81.94       | 80.24        |
| 2602      | 81.36       | 79.91        |
| 1601      | 83.58       | 81.42        |
| 2853      | 90.2        |              |
| 0702      |             |              |
| 0703      |             |              |
| 0705      |             |              |
| 0609      |             |              |
| 2953      | 88.19       | 86.89        |
| 06YP      |             |              |
| 3851      | 85.78       | 84.07        |
| 2752      |             |              |
| 0506      | 80.88       | 79.04        |
| 0503      | 81.86       | 79.41        |
| 2955      | 89.59       | 87.94        |
| 151D      |             |              |
| 151E      |             |              |
| 371E      |             |              |
| 371A      |             |              |
| 371D      |             |              |
| 4702      |             |              |
| 151A      |             |              |
| 271A      |             |              |
| 271C      |             |              |
| 371L      |             |              |
| 371H      |             |              |
| 371J      |             |              |
| 161B      |             |              |
| 161D      |             |              |
| 261B      |             |              |

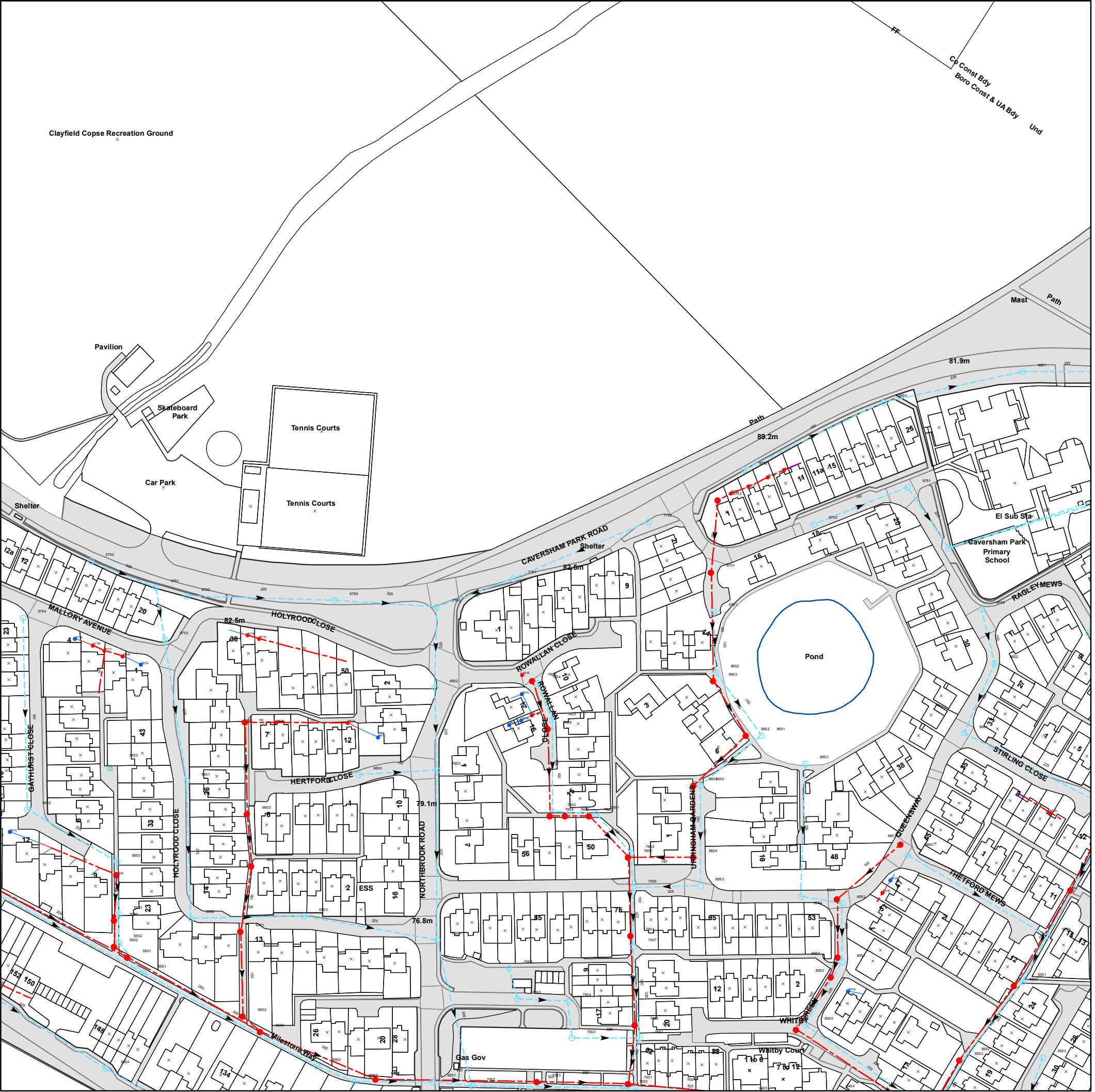
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NB: Level quoted in metres Ordnance Newlyn Datum. The value -9999.00 indicates no Survey information is available.

| REFERENCE | COVER LEVEL | INVERT LEVEL |
|-----------|-------------|--------------|
| 251D      |             |              |
| 351A      |             |              |
| 351C      |             |              |
| 451B      |             |              |
| 161A      |             |              |
| 051B      |             |              |
| 261E      |             |              |
| 461E      |             |              |
| 251C      |             |              |
| 2506      |             |              |
| 251B      |             |              |
| 471E      |             |              |
| 471F      |             |              |
| 471C      |             |              |
| 371N      |             |              |
| 171B      |             |              |
| 471I      |             |              |
| 461B      |             |              |
| 4602      | 78.6        | 76.31        |
| 281A      |             |              |
| 281C      |             |              |
| 461D      |             |              |
| 05XT      |             |              |
| 471J      |             |              |
| 261C      |             |              |
| 291A      |             |              |
| 051E      |             |              |
| 471M      |             |              |
| 081C      |             |              |
| 151F      |             |              |
| 151H      |             |              |
| 281D      |             |              |
| 151K      |             |              |
| 151M      |             |              |
| 351D      |             |              |

| REFERENCE | COVER LEVEL | INVERT LEVEL |
|-----------|-------------|--------------|
| 251E      |             |              |
| 251F      |             |              |
| 251G      |             |              |
| 171A      |             |              |
| 051A      |             |              |
| 081A      |             |              |
| 261F      |             |              |
| 251A      |             |              |
| 351B      |             |              |
| 2501      | 81.77       | 80.48        |
| 471D      |             |              |
| 471G      |             |              |
| 471H      |             |              |
| 471B      |             |              |
| 051C      |             |              |
| 171C      |             |              |
| 461A      |             |              |
| 461C      |             |              |
| 451A      |             |              |
| 281B      |             |              |
| 181A      |             |              |
| 05YR      |             |              |
| 05YQ      |             |              |
| 471K      |             |              |
| 261D      |             |              |
| 051D      |             |              |
| 471L      |             |              |
| 081B      |             |              |
| 051F      |             |              |
| 151G      |             |              |
| 151I      |             |              |
| 151J      |             |              |
| 151L      |             |              |
| 151N      |             |              |
| 351E      |             |              |



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Print Date: 18/03/2020  
Map Centre: 472750,176750  
Grid Reference: SU7276NE

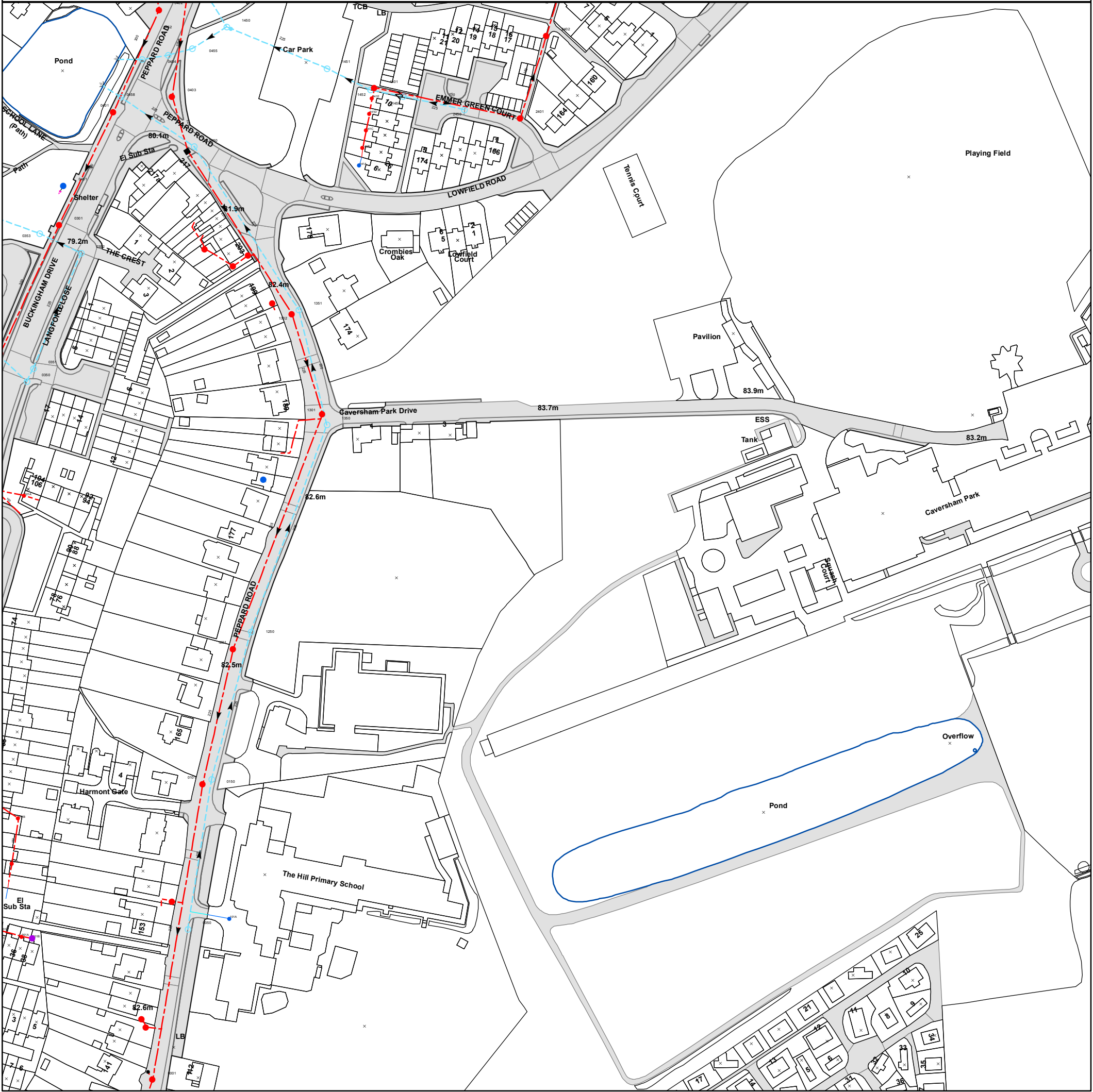
Comments:

CDWS/CDWS Standard/2020\_4167880

NB: Level quoted in metres Ordnance Newlyn Datum. The value -9999.00 indicates no Survey information is available.

| REFERENCE | COVER LEVEL | INVERT LEVEL |
|-----------|-------------|--------------|
| 8651      | 80.91       | 78.93        |
| 5554      | 79.31       | 77.69        |
| 5501      | 73.6        | 72.06        |
| 7558      | 76.26       | 73.39        |
| 7750      | 82.14       | 80.26        |
| 8550      | 71.46       | 69.36        |
| 8701      | 82.82       | 80.13        |
| 8751      | 82.27       | 80.96        |
| 8702      | 82.76       | 80.7         |
| 9550      | 75.44       | 73.41        |
| 8602      | 80.97       | 78.78        |
| 9851      | 81.7        | 79.58        |
| 7552      | 72.79       | 70.57        |
| 6652      | 81.32       | 79.65        |
| 8604      | 77.17       | 75.78        |
| 5751      | 82.59       | 80.55        |
| 5503      | 76.71       | 73.52        |
| 5552      | 74.43       | 73.27        |
| 6650      | 80.51       | 78.92        |
| 8553      | 75.36       | 73.84        |
| 9652      | 81.28       | 79.88        |
| 5652      | 79.02       | 77.29        |
| 6552      | 75.03       | 71.41        |
| 6601      | 79.79       | 76.3         |
| 7605      | 81.58       | 80.02        |
| 7654      | 81.55       | 79.65        |
| 8502      | 73.47       | 71.9         |
| 8560      |             |              |
| 8552      | 75.26       | 73.26        |
| 9650      | 77.43       | 75.8         |
| 9750      | 81.72       | 80.45        |
| 6550      | 75.22       | 71.42        |
| 7650      | 77.07       | 74.91        |
| 7556      | 75.97       | 73.74        |
| 6502      | 74.47       | 72.21        |
| 5550      | 78.1        | 76.49        |
| 5651      | 81.13       | 79.52        |
| 7559      |             |              |
| 7603      | 78.7        | 77.34        |
| 7553      | 71.72       | 70.44        |
| 7653      | 80.97       | 78.86        |
| 7501      | 71.33       | 69.4         |
| 9503      | 72          | 69.63        |
| 9552      | 72.05       | 69.11        |
| 7604      | 78.81       | 77.47        |
| 9850      | 82.74       | 80.6         |
| 5753      | 82.23       | 80.2         |
| 7651      | 78.6        | 76.41        |
| 951B      |             |              |
| 7502      | 71.8        | 70.8         |
| 561B      |             |              |
| 671B      |             |              |
| 571A      |             |              |
| 671A      |             |              |
| 761E      |             |              |
| 761B      |             |              |
| 761A      |             |              |
| 761D      |             |              |
| 5504      | 78.83       | 75.88        |
| 961A      |             |              |
| 871B      |             |              |
| 871D      |             |              |

| REFERENCE | COVER LEVEL | INVERT LEVEL |
|-----------|-------------|--------------|
| 8501      | 71.37       | 69.98        |
| 8650      | 79.47       | 77.48        |
| 5551      | 73.59       | 71.99        |
| 7655      | 79.98       | 78.43        |
| 8554      | 75.03       | 73.56        |
| 8653      | 80.62       | 79.23        |
| 8603      | 81.39       | 79.23        |
| 8652      | 81.58       | 79.64        |
| 9553      | 71.81       | 69.88        |
| 8752      | 83          | 81.41        |
| 9551      | 74.27       | 71.4         |
| 9753      | 81.1        | 79.12        |
| 6551      |             |              |
| 5752      | 82.51       | 81.06        |
| 8601      | 79.43       | 77.88        |
| 5502      | 74.14       | 72.53        |
| 5650      | 79.46       | 76.91        |
| 5553      | 77.31       | 75.52        |
| 6504      | 74.24       | 70.43        |
| 9502      | 74.11       | 71.62        |
| 5754      | 81.41       | 79.76        |
| 6750      |             |              |
| 7752      |             |              |
| 6503      | 74.36       | 71.24        |
| 7503      | 71.77       | 70.08        |
| 7555      | 72.94       | 71.83        |
| 8503      | 75.28       | 73.87        |
| 8551      | 73.78       | 71.3         |
| 9601      | 77.73       | 76.12        |
| 9751      | 82.29       | 80.33        |
| 6553      | 77.12       | 75.5         |
| 7504      | 74.64       | 72.85        |
| 7557      | 74.48       | 72.43        |
| 7551      | 71.55       | 70.14        |
| 6602      | 80.95       | 78.33        |
| 6501      | 77.25       | 74.83        |
| 5750      | 82.59       | 81.07        |
| 7751      |             |              |
| 7554      | 72.4        | 70.93        |
| 7652      | 78.75       | 77.07        |
| 7550      | 71.19       | 68.29        |
| 7601      | 76.99       | 75.13        |
| 9651      | 80.28       | 78.86        |
| 7606      | 80.96       | 79.47        |
| 8750      | 82.62       | 80.95        |
| 9752      | 82.23       | 79.87        |
| 7602      | 78.59       | 77.19        |
| 661C      |             |              |
| 5653      |             |              |
| 571C      |             |              |
| 561A      |             |              |
| 9501      | 76.61       | 74.3         |
| 571B      |             |              |
| 661B      |             |              |
| 6603      | 81.68       | 79.3         |
| 661A      |             |              |
| 761C      |             |              |
| 561C      |             |              |
| 951A      |             |              |
| 871A      |             |              |
| 871C      |             |              |
| 851A      |             |              |



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Print Date: 18/03/2020  
Map Centre: 472250,176250  
Grid Reference: SU7276SW

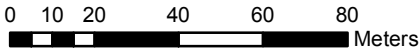
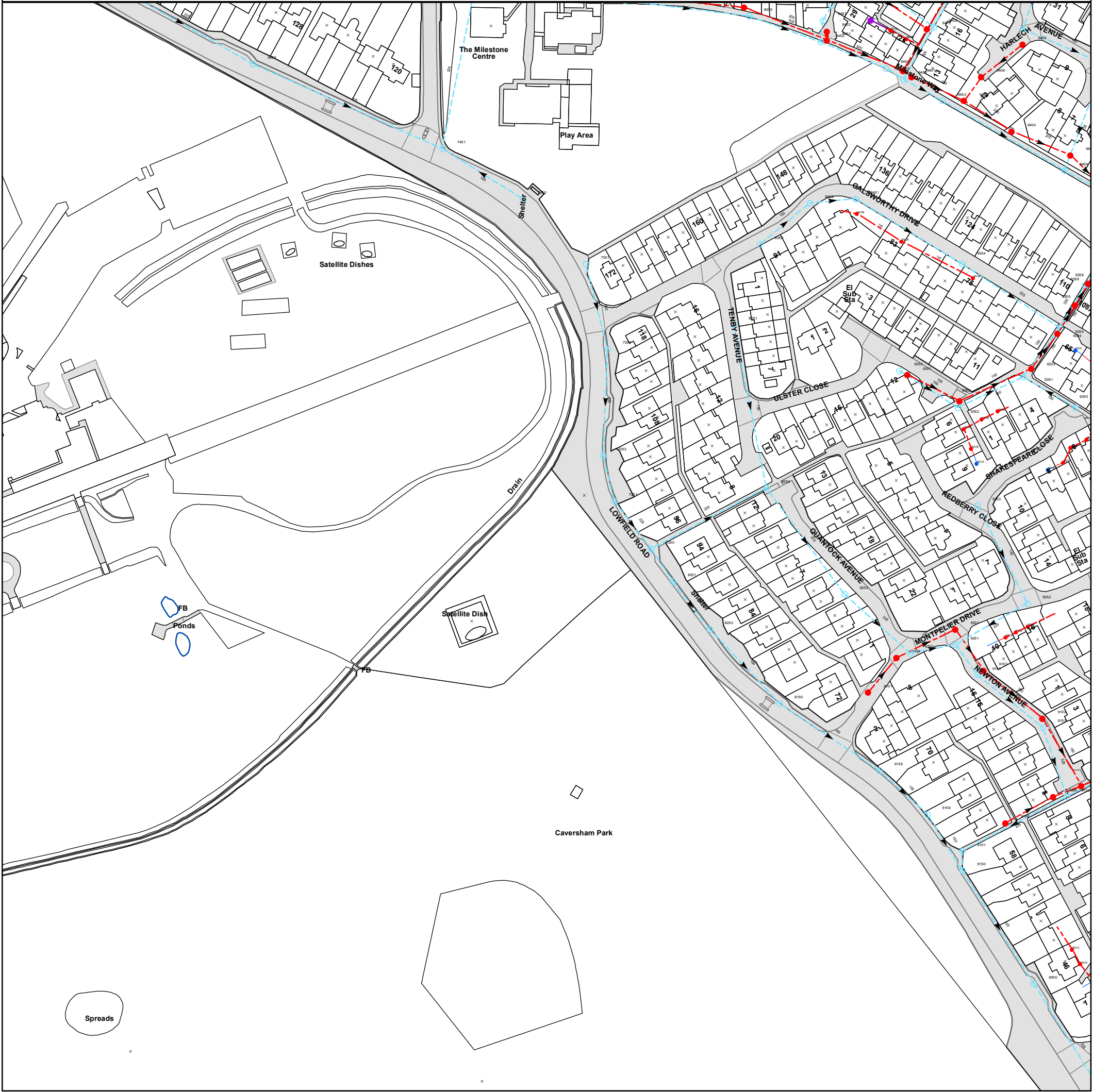
Comments:

CDWS/CDWS Standard/2020\_4167880

NB: Level quoted in metres Ordnance Newlyn Datum. The value -9999.00 indicates no Survey information is available.

| REFERENCE | COVER LEVEL | INVERT LEVEL |
|-----------|-------------|--------------|
| 0350      | 79.44       | 77.77        |
| 1450      | 81.27       | 79.25        |
| 13ZW      |             |              |
| 0450      | 81.2        | 79.59        |
| 2450      | 82.72       | 80.91        |
| 0353      | 79.04       | 76.54        |
| 0101      | 82.57       | 77.57        |
| 0454      | 80.35       | 78.45        |
| 0403      | 80.56       | 78.84        |
| 002T      |             |              |
| 0452      | 80.44       | 78.48        |
| 1451      | 81.63       | 80.18        |
| 1301      | 82.78       | 78.18        |
| 1401      | 82.85       | 82.05        |
| 0401      | 80.03       | 78.45        |
| 0458      |             |              |
| 2401      | 82.78       | 81.53        |
| 13YY      |             |              |
| 141A      |             |              |
| 101A      |             |              |
| 141E      |             |              |
| 1250      | 82.44       | 80.56        |
| 0050      | 82.65       | 81.04        |
| 021A      |             |              |
| 001A      |             |              |
| 011B      |             |              |

| REFERENCE | COVER LEVEL | INVERT LEVEL |
|-----------|-------------|--------------|
| 0351      | 79.29       | 77.74        |
| 1201      | 82.47       | 77.77        |
| 0455      | 80.79       | 78.8         |
| 0301      | 79.38       | 78.43        |
| 0451      | 78.91       | 76.86        |
| 1453      | 82.94       | 80.61        |
| 13ZV      |             |              |
| 00YY      |             |              |
| 0352      | 79.15       | 76.85        |
| 0001      | 82.04       | 77.12        |
| 1350      | 82.81       | 80.17        |
| 0402      | 80.79       | 78.45        |
| 1452      | 82.85       | 80.44        |
| 2402      | 82.64       | 81.21        |
| 1351      | 82.4        | 79.97        |
| 1302      | 82.41       | 78.34        |
| 12ZV      |             |              |
| 141C      |             |              |
| 141B      |             |              |
| 141D      |             |              |
| 032T      |             |              |
| 00ZV      |             |              |
| 0150      | 82.55       | 80.77        |
| 001B      |             |              |
| 011A      |             |              |



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**Grid Reference:** SU7276SE

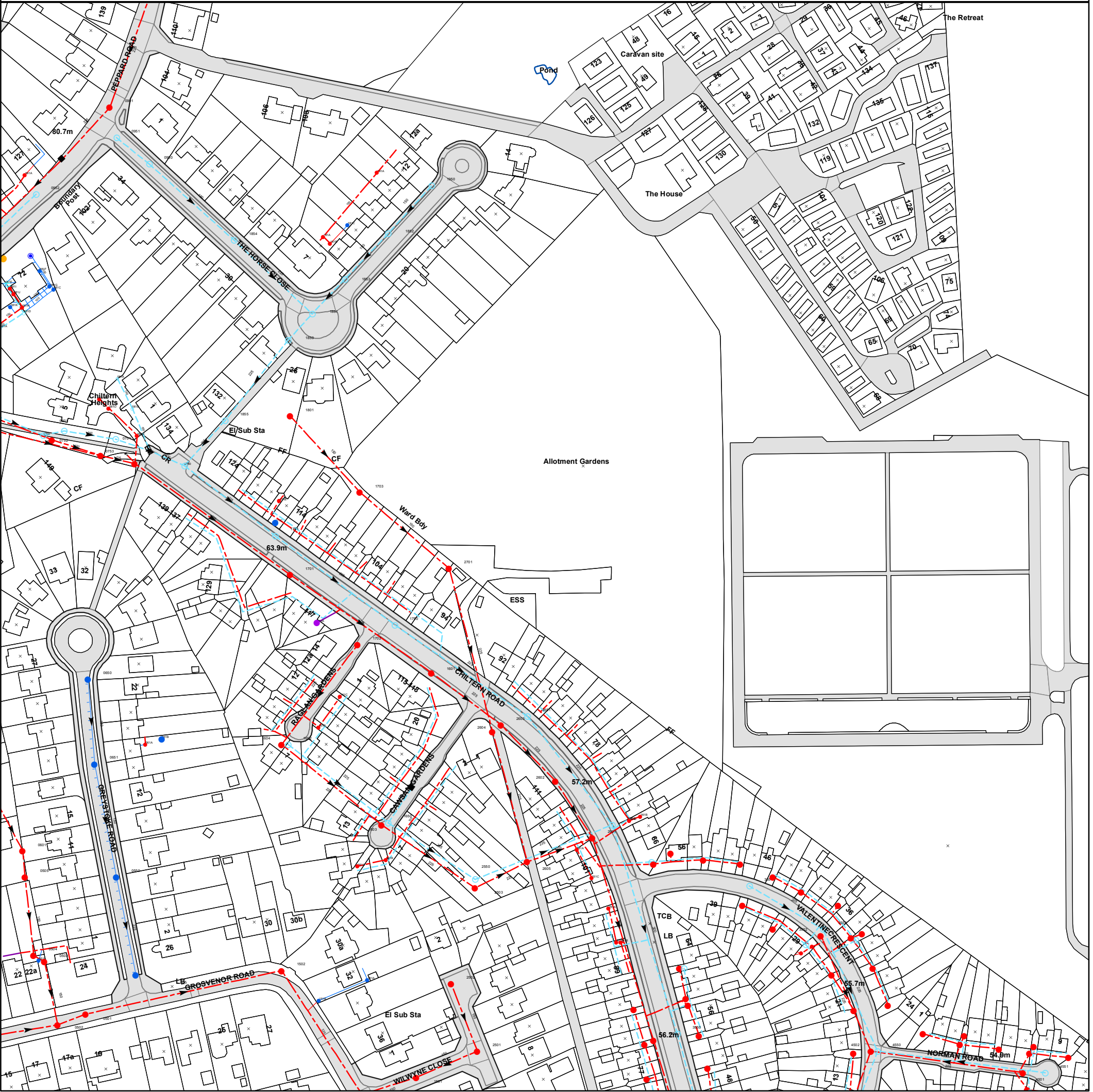
**Comments:**

CDWS/CDWS Standard/2020\_4167880

NB: Level quoted in metres Ordnance Newlyn Datum. The value -9999.00 indicates no Survey information is available.

| REFERENCE | COVER LEVEL | INVERT LEVEL |
|-----------|-------------|--------------|
| 921A      |             |              |
| 8350      | 77.73       | 76.16        |
| 8252      |             |              |
| 9050      | 62          | 60.64        |
| 9102      | 70.36       | 68.04        |
| 9350      | 73.96       | 72.57        |
| 9101      | 68.48       | 66.48        |
| 9351      | 74.54       | 72.31        |
| 9455      | 70.54       | 68.83        |
| 9303      | 74.24       | 72.4         |
| 9152      | 67.59       | 66.02        |
| 9304      | 72.64       | 71.13        |
| 9105      |             |              |
| 8403      | 70.24       | 68.04        |
| 9106      |             |              |
| 6450      | 78.88       | 76.25        |
| 7252      | 78.34       | 76.75        |
| 8451      |             |              |
| 8253      | 72.65       | 70.69        |
| 9301      | 75.98       | 74.47        |
| 9406      | 67.63       | 66.11        |
| 9253      | 74.78       | 73.71        |
| 7351      | 79.57       | 78.04        |
| 8101      | 70.11       | 69.09        |
| 9201      | 71.74       | 68.63        |
| 9150      | 65.26       | 63.74        |
| 8453      | 69.46       | 68.58        |
| 8402      | 69.07       | 67.99        |
| 9354      | 73.57       | 71.81        |
| 8450      | 76.31       | 74.68        |
| 9451      | 68.4        | 65.38        |
| 9453      | 67.54       | 64.83        |
| 931F      |             |              |
| 931D      |             |              |
| 8250      | 76.52       | 74.15        |
| 9404      | 66.9        | 65.32        |
| 9407      | 67.29       | 65.79        |
| 7450      | 79.02       | 77.82        |
| 841B      |             |              |
| 931B      |             |              |
| 941A      |             |              |
| 841A      |             |              |
| 921F      |             |              |
| 921E      |             |              |
| 921I      |             |              |
| 901D      |             |              |

| REFERENCE | COVER LEVEL | INVERT LEVEL |
|-----------|-------------|--------------|
| 931C      |             |              |
| 8351      | 78.79       | 77.42        |
| 7451      | 78.61       | 75.14        |
| 9153      | 69.96       | 67.9         |
| 8455      | 69.82       | 67.42        |
| 9305      | 71.07       | 69.17        |
| 9356      |             |              |
| 9405      | 69.63       | 67.85        |
| 9252      | 72.41       | 70.89        |
| 9454      | 66.09       | 64.02        |
| 9306      |             |              |
| 9355      |             |              |
| 8150      | 71.13       | 69.44        |
| 8251      | 75.41       | 73.43        |
| 7250      | 76.19       | 74.52        |
| 7251      | 77.57       | 76.15        |
| 7350      | 79.41       | 77.6         |
| 8454      | 69.75       | 68.67        |
| 9450      | 68.23       | 65.21        |
| 9250      | 71.18       | 69.48        |
| 9103      | 71.64       | 68.46        |
| 9154      | 71.54       | 68.74        |
| 9353      | 76.22       | 74.39        |
| 9251      | 71.7        | 68.92        |
| 9302      | 75.76       | 73.59        |
| 8452      | 69.07       | 66.9         |
| 8401      | 69          | 67.01        |
| 9151      | 65.86       | 64.26        |
| 9104      | 71.03       | 68.88        |
| 9155      | 68.28       | 66.6         |
| 9452      | 69.39       | 66.4         |
| 9403      | 69.28       | 67.8         |
| 921B      |             |              |
| 931E      |             |              |
| 9156      | 66.88       | 65.3         |
| 9408      | 66.19       |              |
| 9401      | 68.15       | 66.26        |
| 9352      | 75.74       | 73.74        |
| 931A      |             |              |
| 9402      | 68.28       | 66.28        |
| 941B      |             |              |
| 921G      |             |              |
| 921D      |             |              |
| 921H      |             |              |
| 921C      |             |              |
| 901C      |             |              |



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**Printed By:** G1KANAGA  
**Print Date:** 18/03/2020  
**Map Centre:** 472250,175750  
**Grid Reference:** SU7275NW

**Comments:**

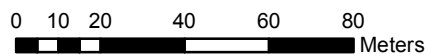
CDWS/CDWS Standard/2020\_4167880

NB: Level quoted in metres Ordnance Newlyn Datum. The value -9999.00 indicates no Survey information is available.

| REFERENCE | COVER LEVEL | INVERT LEVEL |
|-----------|-------------|--------------|
| 45ZQ      |             |              |
| 0505      |             |              |
| 0952      | 79.51       | 77.96        |
| 1601      | 59.64       | 57.96        |
| 1854      | 76.3        | 75.14        |
| 1502      | 56.67       | 54.52        |
| 2603      | 58.22       | 56.52        |
| 35WP      |             |              |
| 2550      |             |              |
| 2701      |             |              |
| 35ZW      |             |              |
| 45ZR      |             |              |
| 36ZW      |             |              |
| 3550      | 56.06       | 54.23        |
| 35YZ      |             |              |
| 45ZT      |             |              |
| 1652      |             |              |
| 1701      | 63.63       | 61.99        |
| 36ZR      |             |              |
| 1750      | 60.83       | 59.32        |
| 36ZS      | 56.65       | 54.79        |
| 45ZS      |             |              |
| 0950      | 79.15       | 77.9         |
| 25YS      |             |              |
| 35XR      |             |              |
| 1603      | 57.81       | 55.99        |
| 1852      | 74.31       | 73.35        |
| 45YY      |             |              |
| 4551      | 54.64       | 53.46        |
| 4501      | 54.64       | 53.11        |
| 45XR      |             |              |
| 45XW      |             |              |
| 0651      | 61.66       | 60.15        |
| 35XZ      |             |              |
| 1851      | 73.49       | 71.21        |
| 1703      |             |              |
| 0901      | 80.52       | 77           |
| 0951      | 80.27       | 79.1         |
| 2650      | 56.86       | 54.98        |
| 2605      | 56.89       |              |
| 3502      | 55.62       | 53.55        |
| 45YZ      |             |              |
| 35YR      |             |              |
| 35ZT      |             |              |
| 2601      | 56.74       | 54.53        |
| 0551      |             | 55.63        |
| 2501      | 55.9        | 54.42        |
| 081I      |             |              |
| 35YT      |             |              |
| 181B      |             |              |
| 191A      |             |              |
| 251A      |             |              |
| 251C      |             |              |
| 251D      |             |              |
| 081A      |             |              |
| 35YW      |             |              |
| 171B      |             |              |
| 0751      | 69          | 67.9         |
| 081H      |             |              |
| 081J      |             |              |
| 081D      |             |              |
| 081K      |             |              |
| 0750      | 66.99       | 65.66        |
| 081G      |             |              |
| 161B      |             |              |
| 0701      | 67.93       | 66.48        |
| 081O      |             |              |
| 261B      |             |              |
| 091A      |             |              |
| 161D      |             |              |

| REFERENCE | COVER LEVEL | INVERT LEVEL |
|-----------|-------------|--------------|
| 0601      |             |              |
| 0504      | 58.37       | 57.67        |
| 1855      | 67.97       | 66.56        |
| 0502      | 56.96       | 55.32        |
| 1751      | 64.47       | 63.15        |
| 1604      |             |              |
| 35XY      |             |              |
| 2503      | 56.89       | 55.29        |
| 35ZS      |             |              |
| 0503      | 58.21       | 57.54        |
| 2604      | 58.36       | 56.44        |
| 1950      | 74.79       | 74.09        |
| 36ZV      |             |              |
| 35ZQ      |             |              |
| 35ZP      |             |              |
| 3551      | 55.87       | 54.46        |
| 1850      | 72.19       | 69.76        |
| 1801      | 69.01       | 66.89        |
| 4550      | 55.19       | 53.21        |
| 26WW      | 56.65       | 55.17        |
| 4502      | 55.24       | 52.82        |
| 45YW      |             |              |
| 25YT      |             |              |
| 35YP      |             |              |
| 35VW      |             |              |
| 1650      | 57.86       | 56.25        |
| 35XS      |             |              |
| 35WX      |             |              |
| 35VX      |             |              |
| 35VZ      |             |              |
| 45YV      |             |              |
| 45YS      |             |              |
| 25YV      |             |              |
| 0650      | 63.86       | 62.54        |
| 1702      | 61.09       | 58.8         |
| 2602      | 57.22       | 55.67        |
| 0550      | 59.05       | 57.66        |
| 0501      | 56.91       | 55.23        |
| 1853      | 73.56       | 72.19        |
| 2651      | 58.06       | 56.4         |
| 3552      | 55.59       | 53.87        |
| 0801      | 71.59       | 70.49        |
| 35XX      |             |              |
| 3501      | 56.08       | 53.87        |
| 0753      | 68.9        | 66.3         |
| 2502      | 55.93       | 54.83        |
| 1501      | 55.9        | 54.16        |
| 171A      |             |              |
| 181A      |             |              |
| 181C      |             |              |
| 061B      |             |              |
| 251B      |             |              |
| 261A      |             |              |
| 061A      |             |              |
| 081B      |             |              |
| 171C      |             |              |
| 151A      |             |              |
| 0802      | 71.99       | 70.94        |
| 081C      |             |              |
| 081F      |             |              |
| 151B      |             |              |
| 081E      |             |              |
| 0752      | 71.7        | 70.6         |
| 161A      |             |              |
| 081M      |             |              |
| 081N      |             |              |
| 051A      |             |              |
| 261C      |             |              |
| 161C      |             |              |

**CDWS/CDWS Standard/2020\_4167880**



|                        |               |
|------------------------|---------------|
| <b>Scale:</b>          | 1:1792        |
| <b>Width:</b>          | 500m          |
| <b>Printed By:</b>     | G1KANAGA      |
| <b>Print Date:</b>     | 18/03/2020    |
| <b>Map Centre:</b>     | 472750,175750 |
| <b>Grid Reference:</b> | SU7275NE      |

**Comments:**

# CDWS/CDWS Standard/2020\_4167880

NB: Level quoted in metres Ordnance Newlyn Datum. The value -9999.00 indicates no Survey information is available.

| REFERENCE | COVER LEVEL | INVERT LEVEL |
|-----------|-------------|--------------|
| 9604      |             |              |
| 9603      | 48.3        | 47.14        |
| 9607      |             |              |
| 9605      |             |              |
| 751A      |             |              |
| 961B      |             |              |
| 951A      |             |              |

| REFERENCE | COVER LEVEL | INVERT LEVEL |
|-----------|-------------|--------------|
| 9601      | 48.31       | 46.84        |
| 9602      | 48.65       | 47.3         |
| 9606      |             |              |
| 751B      |             |              |
| 961A      |             |              |
| 961C      |             |              |



# Sewer Key - Commercial Drainage and Water Enquiry

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

|  |                                                                                                                                             |
|--|---------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>Foul:</b> A sewer designed to convey waste water from domestic and industrial sources to a treatment works.                              |
|  | <b>Surface Water:</b> A sewer designed to convey surface water (e.g. rain water from roofs, yards and car parks) to rivers or watercourses. |
|  | <b>Combined:</b> 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                                        |

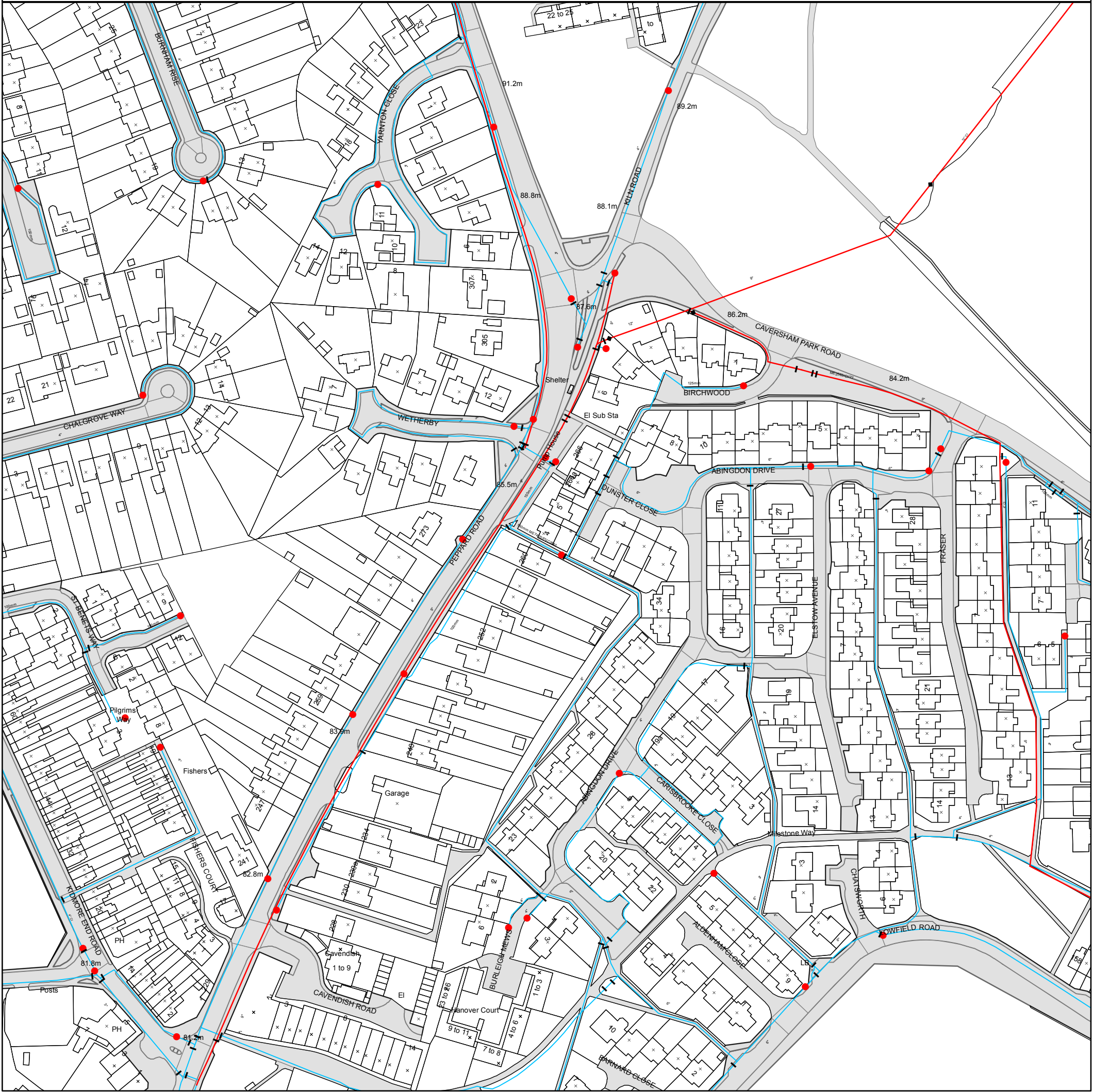
### Areas

Lines denoting areas of underground surveys, etc.

|  |                  |
|--|------------------|
|  | Agreement        |
|  | Operational Site |
|  | Chamber          |
|  | Tunnel           |
|  | Conduit Bridge   |

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

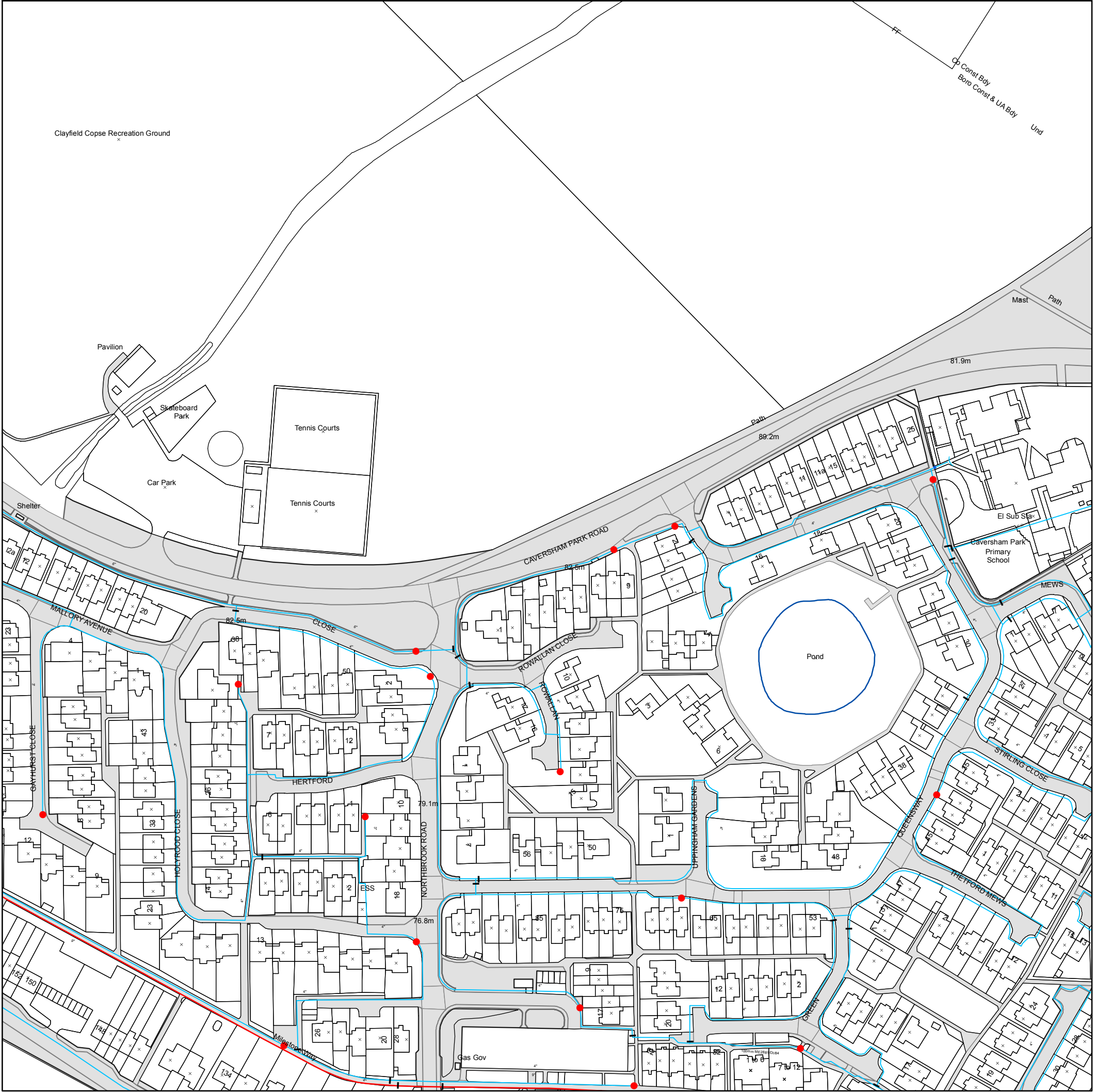
|  |                       |  |                     |
|--|-----------------------|--|---------------------|
|  | Foul Sewer            |  | Surface Water Sewer |
|  | Combined Sewer        |  | Gully               |
|  | Culverted Watercourse |  | Proposed            |
|  |                       |  |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



The 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 before any works are undertaken. Crown copyright Reserved

**Scale:** 1:1792  
**Width:** 500m  
**Printed By:** G1KANAGA  
**Print Date:** 18/03/2020  
**Map Centre:** 472250,176750  
**Grid Reference:** SU7276NW

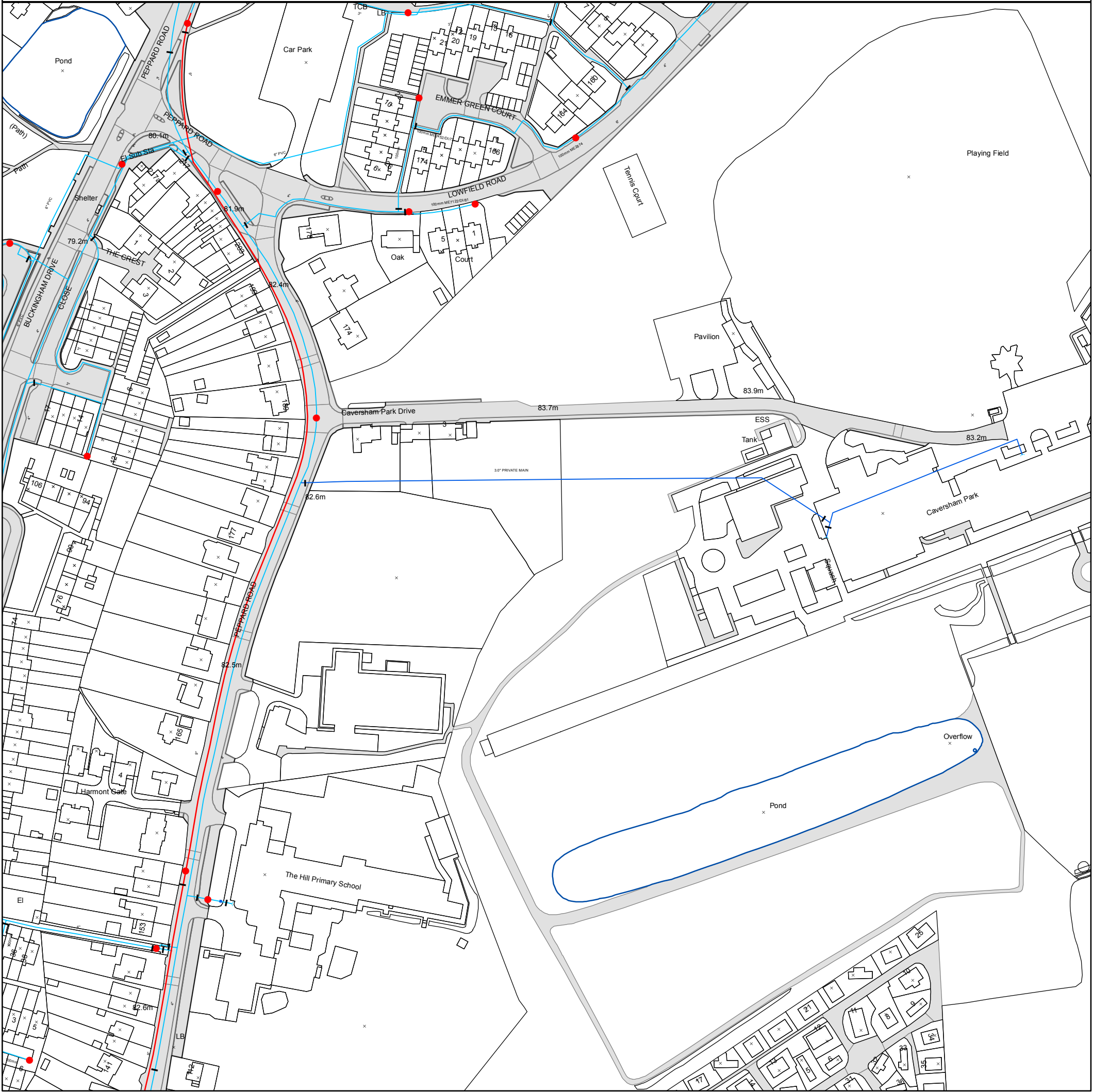
**Comments:**



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 before any works are undertaken. Crown copyright Reserved

Scale: 1:1792  
Width: 500m  
Printed By: G1KANAGA  
Print Date: 18/03/2020  
Map Centre: 472750,176750  
Grid Reference: SU7276NE

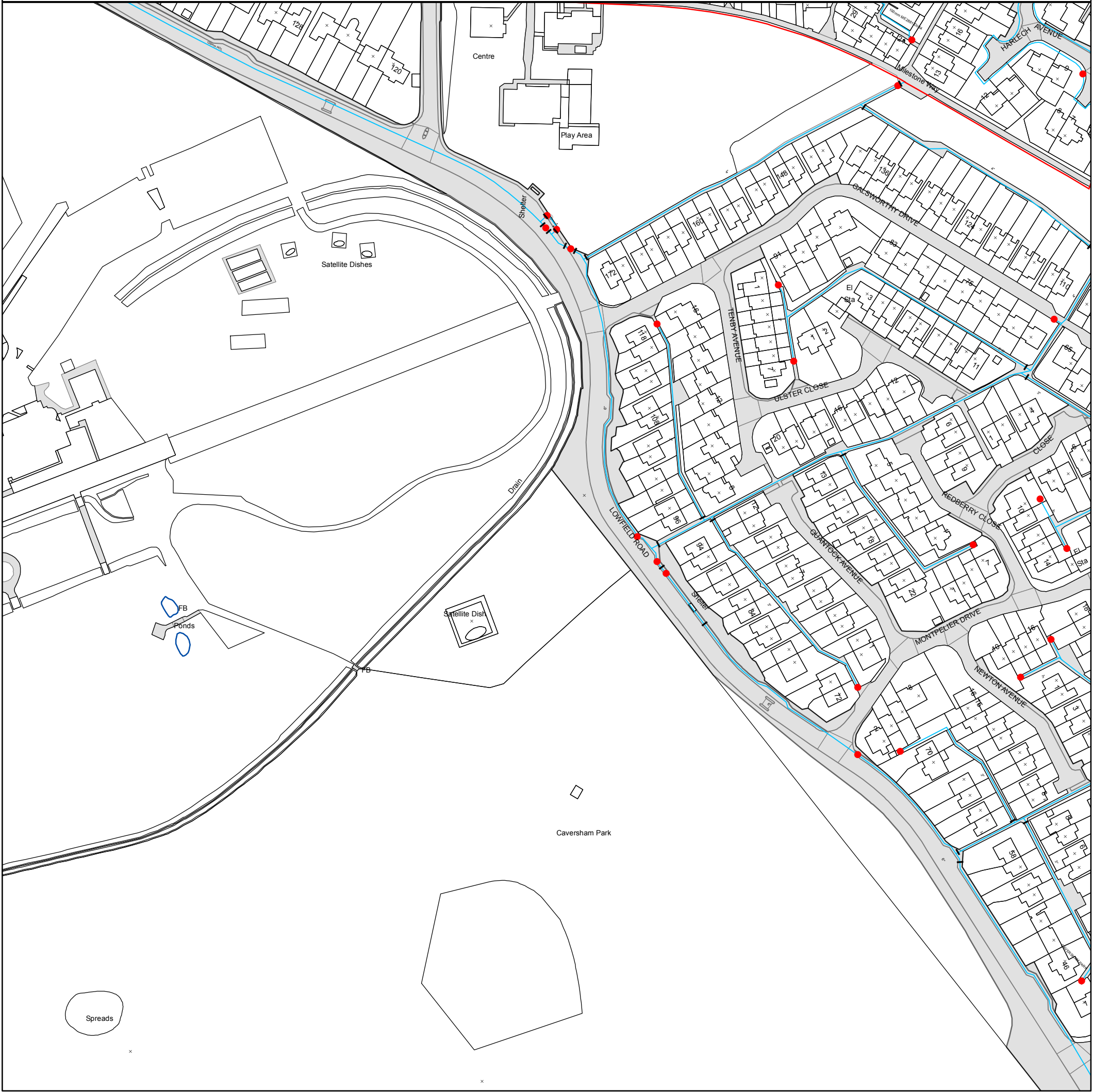
Comments:



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 before any works are undertaken. Crown copyright Reserved

Scale: 1:1792  
Width: 500m  
Printed By: G1KANAGA  
Print Date: 18/03/2020  
Map Centre: 472250,176250  
Grid Reference: SU7276SW

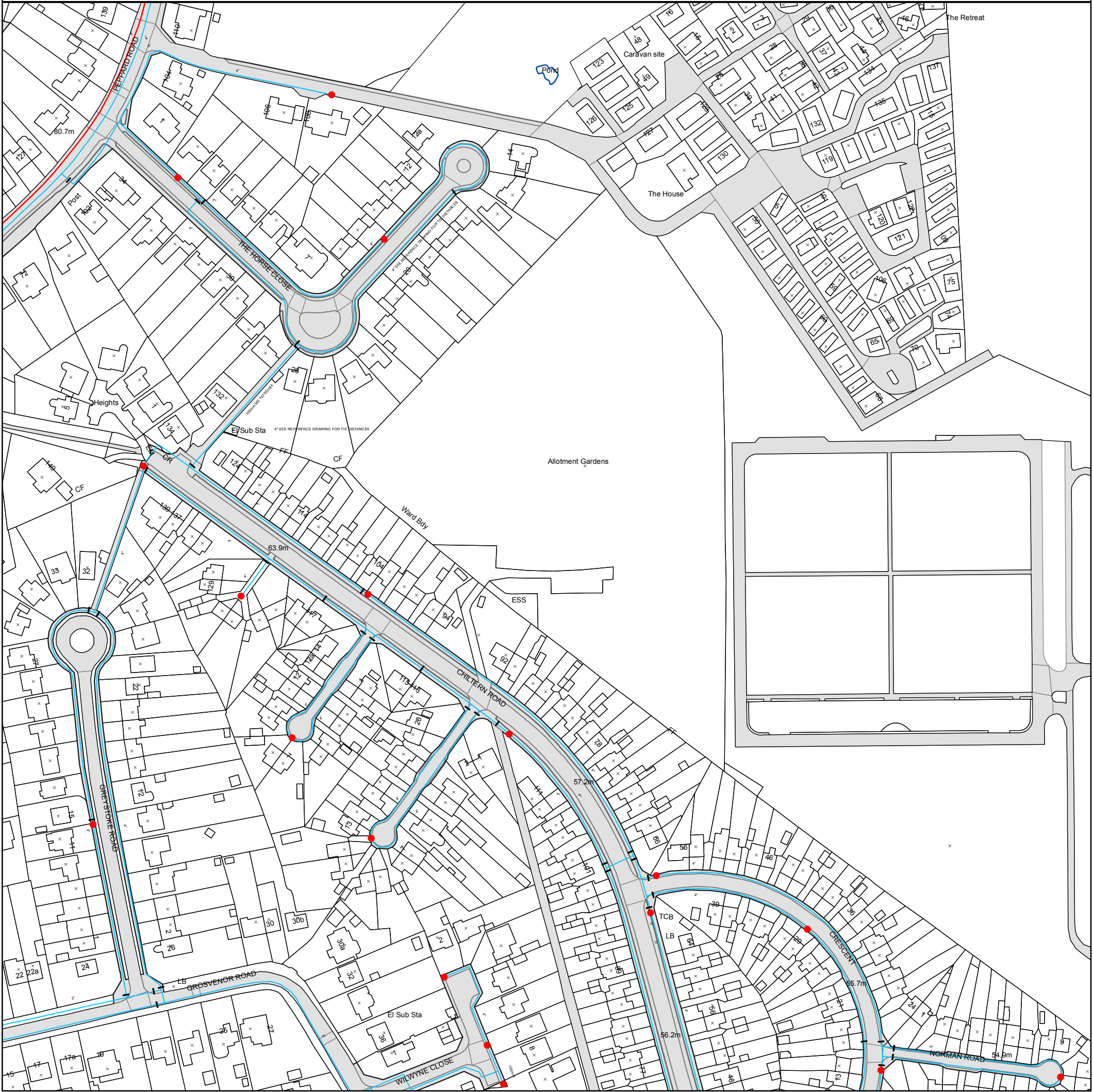
Comments:



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 before any works are undertaken. Crown copyright Reserved

**Scale:** 1:1792  
**Width:** 500m  
**Printed By:** G1KANAGA  
**Print Date:** 18/03/2020  
**Map Centre:** 472750,176250  
**Grid Reference:** SU7276SE

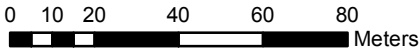
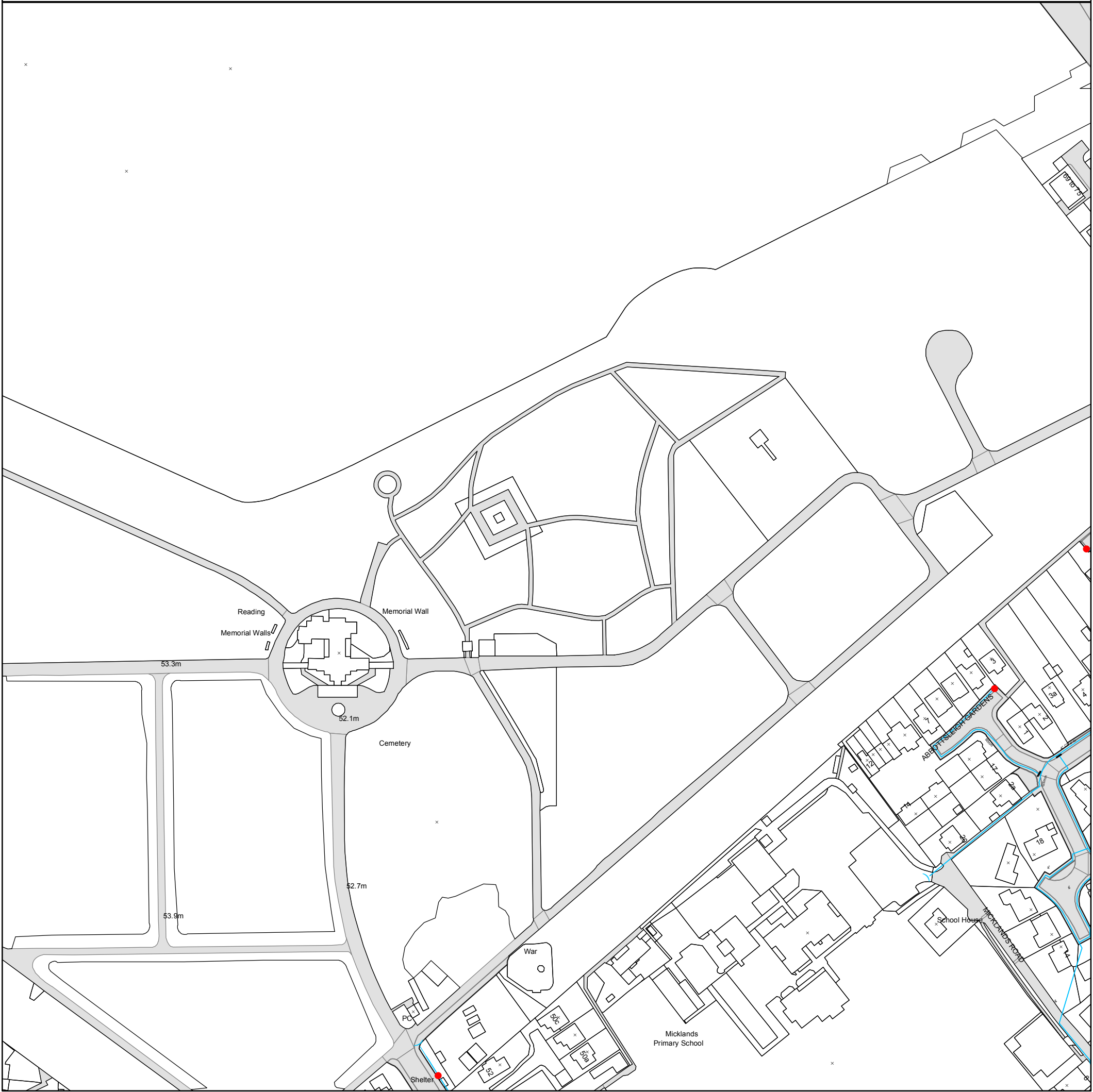
**Comments:**



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 before any works are undertaken. Crown copyright Reserved

**Scale:** 1:1792  
**Width:** 500m  
**Printed By:** G1KANAGA  
**Print Date:** 18/03/2020  
**Map Centre:** 472250,175750  
**Grid Reference:** SU7275NW

**Comments:**



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 before any works are undertaken. Crown copyright Reserved

**Scale:** 1:1792  
**Width:** 500m  
**Printed By:** G1KANAGA  
**Print Date:** 18/03/2020  
**Map Centre:** 472750,175750  
**Grid Reference:** SU7275NE

**Comments:**



## Waterworks Key - Commercial Drainage and Water Enquiry

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

|            |                                                                                                                                                                                                                                                                 |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.                                                             |

### Valves

|  |                        |
|--|------------------------|
|  | General Purpose Valve  |
|  | Air Valve              |
|  | Pressure Control Valve |
|  | Customer Valve         |

### Hydrants

|  |                |
|--|----------------|
|  | Single Hydrant |
|--|----------------|

### Meters

|  |       |
|--|-------|
|  | Meter |
|--|-------|

### End Items

Symbol indicating what happens at the end of a water main.

|  |                 |
|--|-----------------|
|  | Blank Flange    |
|  | Capped End      |
|  | Emptying Pit    |
|  | Undefined End   |
|  | Manifold        |
|  | Customer Supply |
|  | Fire Supply     |

### Operational Sites

|  |                   |
|--|-------------------|
|  | Booster Station   |
|  | Other             |
|  | Other (Proposed)  |
|  | Pumping Station   |
|  | Service Reservoir |
|  | Shaft Inspection  |
|  | Treatment Works   |
|  | Unknown           |
|  | Water Tower       |

### Other Symbols

|  |             |
|--|-------------|
|  | Data Logger |
|--|-------------|

#### PIPE DIAMETER

#### DEPTH BELOW GROUND

|                             |                |
|-----------------------------|----------------|
| Up to 300mm (12")           | 900mm (3')     |
| 300mm - 600mm (12" - 24")   | 1100mm (3' 8") |
| 600mm and bigger (24" plus) | 1200mm (4')    |

### Other Water Pipes (Not Operated or Maintained by Thames Water)

|  |                                                                                                                                                                                                                                             |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>Other Water Company Main:</b> 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. |
|  | <b>Private Main:</b> Indicates 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.                                             |

For your guidance:

- Thames Water Property Searches Complaints Procedure:
  - Thames Water Property Searches offers a robust complaints procedure. Complaints can be made by telephone, in writing, by email ([searches@thameswater.co.uk](mailto:searches@thameswater.co.uk)) or through our website ([www.thameswater-propertysearches.co.uk](http://www.thameswater-propertysearches.co.uk))

As a minimum standard Thames Water Property Searches will:

- endeavour to resolve any contact or complaint at the time of receipt. If this isn't possible, we will advise of timescales;
- investigate and research the matter in detail to identify the issue raised (in some cases third party consultation will be required);
- provide a response to the customer within 10 working days of receipt of the complaint;
- provide compensation, if no response or acknowledgment that we are investigating the case is given within 10 working days of receipt of the complaint;
- keep you informed of the progress and, depending on the scale of investigation required, update with new timescales as necessary;
- provide an amended search, free of charge, if required;
- provide a refund if we find your complaint to be justified; take the necessary action within our power to put things right.

If you want us to liaise with a third party on your behalf, just let us know.

If you are still not satisfied with the outcome provided, we will refer the matter to a Senior Manager, for resolution, who will respond again within 5 working days.

If you remain dissatisfied with our final response you may refer your complaint for consideration under The Property Ombudsman scheme (TPOs). Further information can be obtained by visiting [www.tpos.co.uk](http://www.tpos.co.uk) or by sending an email to [admin@tpos.co.uk](mailto:admin@tpos.co.uk)

### Question 1.1

For your guidance:

- The Water Industry Act 1991 defines Public Sewers as those which Thames Water have responsibility for. Other assets and rivers, watercourses, ponds, culverts or highway drains may be shown for information purposes only.
- The company is not generally responsible for rivers, watercourses, ponds, culverts or highway drains. If any of these are shown on the copy extract they are shown for information only.
- Any private sewers or lateral drains which are indicated on the extract of the public sewer map as being subject to an agreement under Section 104 of the Water Industry Act 1991 are not an 'as constructed' record. It is recommended these details be checked with the developer.
- Assets other than public sewers may be shown on the copy extract, for information.

## Question 1.2

For your guidance:

- The “water mains” in this context are those, which are vested in and maintainable by the water company under statute.
- Assets other than public water mains may be shown on the plan, for information only.
- Water companies are not responsible for private supply pipes connecting the property to the public water main and do not hold details of these. These may pass through land outside of the control of the seller, or may be shared with adjacent properties. The buyer may wish to investigate whether separate rights or easements are needed for their inspection, repair or renewal.
- If an extract of the public water main record is enclosed, this will show known public water mains in the vicinity of the property. It should be possible to estimate the likely length and route of any private water supply pipe connecting the property to the public water network.

## Question 2.1

For your guidance:

- Water companies are not responsible for any private drains that connect the property to the public sewerage system and do not hold details of these. The property owner will normally have sole responsibility for private drains serving the property. These may pass through land outside the control of the seller and the buyer may wish to investigate whether separate rights or easements are needed for their inspection, repair or renewal.
- If foul water does not drain to the public sewerage system, the property may have private facilities in the form of a cesspit, septic tank or other type of treatment plant.
- An extract from the public sewer map is enclosed. This will show known public sewers in the vicinity of the property and it should be possible to estimate the likely length and route of any private drains and/or sewers connecting the property to the public sewerage system.

## Question 2.2

For your guidance:

- Sewerage Undertakers are not responsible for any private drains that connect the property to the public sewerage system, and do not hold details of these.
- The property owner will normally have sole responsibility for private drains serving the property. These private drains may pass through land outside of the control of the seller and the buyer may wish to investigate whether separate rights or easements are needed for their inspection, repair or renewal.
- In some cases, 'Sewerage Undertakers' records do not distinguish between foul and surface water connections to the public sewerage system.
- At the time of privatisation in 1989, Sewerage Undertakers were sold with poorly-kept records of sewerage infrastructure. The records did not always show which properties were connected for surface water drainage purposes. Accordingly, billing records have been used to provide an answer for this element of the drainage and water search.
- Due to the potential inadequacy of 'Sewerage Undertakers' infrastructure records with respect to surface water drainage, it is the customer's responsibility to inform the Sewerage Undertaker that they do not receive the surface water drainage service. If on inspection, the buyer finds that surface water from the property does not drain to a public sewer, then the property may be eligible for a rebate of the surface water drainage charge. If you wish to know who bills the sewerage services for this property then you will need to contact the current owner. For a list of all potential retailers of sewerage services for the property please visit [www.open-water.org.uk](http://www.open-water.org.uk).
- If surface water from the property does not drain to the public sewerage system, the property may have private facilities in the form of a soakaway or private connection to a watercourse.
- An extract from the public sewer map is enclosed. This will show known public sewers in the vicinity of the property and it should be possible to estimate the likely length and route of any private drains and/or sewers connecting the property to the public sewerage system.

## Question 2.3

For your guidance:

- If surface water from the property drains to a public sewer, then a surface water drainage charge is payable.
- Where a surface water drainage charge is currently included in the property's water and sewerage bill but, on inspection, the buyer finds that surface water from the property does not drain to a public sewer, then the property may be eligible for a rebate of the surface water drainage charge. If you wish to know who bills the sewerage services for this property then you will need to contact the current owner. For a list of all potential retailers of sewerage services for the property please visit [www.open-water.org.uk](http://www.open-water.org.uk).

## Question 2.4

For your guidance:

- Thames Water has a statutory right of access to carry out work on its assets. Employees of Thames Water or its contractors may, therefore, need to enter the property to carry out work.
- Please note if the property was constructed after 1st July 2011 any sewers and/or lateral drain within the boundary of the property are the responsibility of the householder.
- The approximate boundary of the property has been determined by reference to the Ordnance Survey Record or the map supplied.
- The presence of a public sewer running within the boundary of the property may restrict further development. The Company has a statutory right of access to carry out work on its assets, subject to notice. This may result in employees of the Company, or its contractors, needing to enter the property to carry out work.
- Any private sewers or lateral drains which are indicated on the extract of the public sewer map as being subject to an agreement under Section 104 of the Water Industry Act 1991 are not an 'as constructed' record. It is recommended these details be checked with the developer.

### Question 2.4.1

For your guidance:

- Private pumping stations installed before 1st July 2011 will be transferred into the ownership of the sewerage undertaker.
- From the 1st October 2016 private pumping stations which serve more than one property have been transferred into public ownership but may not be recorded on the public sewer map.
- The approximate boundary of the property has been determined by reference to the Ordnance Survey Record or the map supplied.
- The presence of a public pumping station within the boundary of the property may restrict further development. The company has a statutory right of access to carry out work on its assets, subject to notice. This may result in employees of the company, or its contractors, needing to enter the property to carry out work.
- Any private sewers or lateral drains which are indicated on the extract of the public sewer map as being subject to an agreement under Section 104 of the Water Industry Act 1991 are not an 'as constructed' record. It is recommended these details be checked with the developer.

## Question 2.5

For your guidance:

- This is because there are no buildings from which to measure the distance to any public sewers.
- The presence of a public sewer within 30.48 metres (100 feet) of the building(s) within the property can result in the local authority requiring a property to be connected to the public sewer.
- The measurement is estimated from the Ordnance Survey record, between the building(s) within the boundary of the property and the nearest public sewer.
- Any private sewers or lateral drains which are indicated on the extract of the public sewer map as being subject to an agreement under Section 104 of the Water Industry Act 1991 are not an 'as constructed' record. It is recommended these details be checked with the developer.

### Question 2.5.1

For your guidance:

- Private pumping stations installed before 1st July 2011 will be transferred into the ownership of the sewerage undertaker.
- From the 1st October 2016 private pumping stations which serve more than one property have been transferred into public ownership but may not be recorded on the public sewer map.
- The presence of a public pumping station within 50 metres of the building(s) within the property can result in the local authority requiring a property to be connected to the public sewer.
- The measurement is estimated from the Ordnance Survey record, between the building(s) within the boundary of the property and the nearest public sewer.
- Any private sewers or lateral drains which are indicated on the extract of the public sewer map as being subject to an agreement under Section 104 of the Water Industry Act 1991 are not an 'as constructed' record. It is recommended these details be checked with the developer.

### Question 2.6

For your guidance:

- Any sewers and/or lateral drains within the boundary of the property are not the subject of an adoption agreement and remain the responsibility of the householder. Adoptable sewers are normally those situated in the public highway.
- This enquiry is of interest to purchasers who will want to know whether or not the property will be linked to a public sewer.
- Where the property is part of a very recent or ongoing development and the sewers are not the subject of an adoption application, buyers should consult with the developer to ascertain the extent of private drains and sewers for which they will hold maintenance and renewal liabilities.
- Final adoption is subject to the developer complying with the terms of the adoption agreement under Section 104 of the Water Industry Act 1991 and meeting the requirements of 'Sewers for Adoption' 6<sup>th</sup> Edition.

### Question 2.7

For your guidance:

- From the 1st October 2011 most private sewers, disposal mains and lateral drains were transferred into public ownership and the sewerage undertaker may not have been approved or consulted about any plans to erect a building or extension on the property over or in the vicinity of these.
- Buildings or extensions erected over a sewer in contravention of building controls may have to be removed or altered.

## Question 2.8

For your guidance:

- For reporting purposes buildings are restricted to those normally occupied and used for residential, public, commercial, business or industrial purposes.
- A sewer is “overloaded” when the flow from a storm is unable to pass through it due to a permanent problem (e.g. flat gradient, small diameter). Flooding as a result of temporary problems such as blockages, siltation, collapses and equipment or operational failures are excluded.
- “Internal flooding” from public sewers is defined as flooding, which enters a building or passes below a suspended floor. For reporting purposes, buildings are restricted to those normally occupied and used for residential, public, commercial, business or industrial purposes.
- “At Risk” properties are those that the water company is required to include in the Regulatory Register that is presented annually to the Director General of Water Services. These are defined as properties that have suffered, or are likely to suffer, internal flooding from public foul, combined or surface water sewers due to overloading of the sewerage system more frequently than the relevant reference period (either once or twice in ten years) as determined by the Company’s reporting procedure.
- Flooding as a result of storm events proven to be exceptional and beyond the reference period of one in ten years are not included on the At Risk Register.
- Properties may be at risk of flooding but not included on the Register where flooding incidents have not been reported to the Company.
- Public Sewers are defined as those for which the Company holds statutory responsibility under the Water Industry Act 1991.
- It should be noted that flooding can occur from private sewers and drains which are not the responsibility of the Company. This report excludes flooding from private sewers and drains and the Company makes no comment upon this matter.
- For further information please contact Thames Water Utilities Ltd on Tel: 0800 316 9800 or website [www.thameswater.co.uk](http://www.thameswater.co.uk)

## Question 2.9

For your guidance:

- The nearest sewage treatment works will not always be the sewage treatment works serving the catchment within which the property is situated.
- The sewerage undertaker’s records were inspected to determine the nearest sewage treatment works.
- It should be noted that there may be a private sewage treatment works closer than the one detailed above that has not been identified.
- As a responsible utility operator, Thames Water Utilities Ltd seeks to manage the impact of odour from operational sewage works on the surrounding area. This is done in accordance with the Code of Practice on Odour Nuisance from Sewage Treatment Works issued via the Department of Environment, Food and Rural Affairs (DEFRA). This Code recognises that odour from sewage treatment works can have a detrimental impact on the quality of the local environment for those living close to works. However DEFRA also recognises that sewage treatment works provide important services to communities and are essential for maintaining standards in water quality and protecting aquatic based environments. For more information visit [www.thameswater.co.uk](http://www.thameswater.co.uk)

## Question 3.1

For your guidance:

- The Company does not keep details of private supplies. The situation should be checked with the current owner of the property.

### Question 3.2

For your guidance:

- The boundary of the property has been determined by reference to the plan supplied. Where a plan was not supplied, the Ordnance Survey Record was used. If the Water undertaker mentioned in Question 4.1.2 is not Thames Water Utilities Ltd the boundary of the property has been determined by the Ordnance Survey.
- The presence of a public water main within the boundary of the property may restrict further development within it. Water companies have a statutory right of access to carry out work on their assets, subject to notice. This may result in employees of the Company, or its contractors, needing to enter the property to carry out work.

### Question 3.3

For your guidance:

- This enquiry is of interest to purchasers who will want to know whether or not the property will be linked to the mains water supply.

### Question 3.4

For your guidance:

- "Low water pressure" means water pressure below the regulatory reference level, which is the minimum pressure when demand on the system is not abnormal.
- Water Companies are required to include in the Regulatory Register that is presented annually to the Director General of Water Services, properties receiving pressure below the reference level, provided that allowable exclusions do not apply (i.e. events which can cause pressure to temporarily fall below the reference level)
- The reference level of service is a flow of 9 litres/minute at a pressure of 10metres / head on the customer's side of the outside stop valve (osv). The reference level of service must be applied on the customer's side of a meter or any other company fittings that are on the customer's side of the main stop tap. The reference level applies to a single property. Where more than one property is served by a common service pipe, the flow assumed in the reference level must be appropriately increased to take account of the total number of properties served. For two properties, a flow of 18 litres/minute at a pressure of 10metres/head on the customers' side of the osv is appropriate. For three or more properties the appropriate flow should be calculated from the standard loadings provided in BS806-3 or the Institute of Plumbing handbook.
- **Allowable exclusions** The Company is required to include in the Regulatory Register properties receiving pressure below the reference level, provided that allowable exclusions listed below do not apply.
- **Abnormal demand:** This exclusion is intended to cover abnormal peaks in demand and not the daily, weekly or monthly peaks in demand, which are normally expected. Companies should exclude from the reported figures properties which are affected by low pressure only on those days with the highest peak demands. During the report year companies may exclude, for each property, up to five days of low pressure caused by peak demand.
- **Planned maintenance:** Companies should not report low pressures caused by planned maintenance. It is not intended that companies identify the number of properties affected in each instance. However, companies must maintain sufficiently accurate records to verify that low-pressure incidents that are excluded because of planned maintenance are actually caused by maintenance.
- **One-off incidents:** This exclusion covers a number of causes of low pressure; mains bursts; failures of company equipment (such as pressure reducing valves or booster pumps); firefighting; and action by a third party. However, if problems of this type affect a property frequently, they cannot be classed as one-off events and further investigation will be required before they can be excluded.
- **Low-pressure incidents of short duration:** Properties affected by low pressure, which only occur for a short period, and for which there is evidence that incidents of a longer duration would not occur during the course of the year, may be excluded from the reported figures.
- Please contact your water undertaker mentioned in Question 4.1.2 if you require further information on water pressure.

### Question 3.5

For your guidance:

- Water hardness can be expressed in various indices for example the hardness settings for dishwashers are commonly expressed in Clark's degrees, but check with the manufacturer as there are also other units. The following table shows the normal ranges of hardness.

| Thames Water Hardness Category | Calcium (mg/l) | Calcium Carbonate (mg/l) | English Clarke degrees | French degrees | General/ German degrees |
|--------------------------------|----------------|--------------------------|------------------------|----------------|-------------------------|
| Soft                           | 0 to 40        | 0 to 100                 | 0 to 7                 | 0 to 10        | 0 to 5.6                |
| Medium                         | 41 to 80       | 101 to 200               | 8 to 14                | 11 to 20       | 5.7 to 11.2             |
| Hard                           | Over 80        | Over 200                 | Over 14                | Over 20        | over 11.2               |

- Please contact your water undertaker mentioned in Question 4.1.2 if you require further information on water hardness.

### Question 3.6

For your guidance:

- Where a meter does not serve the property and the customer wishes to consider this method of charging, they should contact the current owner if they wish to know who bills the water services for this property. For a list of all potential retailers of water services for the property please visit [www.open-water.org.uk](http://www.open-water.org.uk).

### Question 4.4

For your guidance:

- The Water Industry Act 1991 Section 150, The Water Resale Order 2001 provides protection for people who buy their water or sewerage services from a person or company instead of directly from a water or sewerage company. Details are available from the Office of Water Services (OFWAT) website is [www.ofwat.gov.uk](http://www.ofwat.gov.uk).
- The Company may install a meter at the premises where a buyer makes a change of use of the property or where the buyer uses water for:
  - Watering the garden other than by hand (this includes the use of sprinklers).
  - Automatically replenishing a pond or swimming pool with a capacity greater than 10,000 litres.
  - A bath with a capacity in excess of 230 litres.
  - A reverse osmosis unit
- Where a meter does not serve the property and the customer wishes to consider this method of charging, they should contact the current owner if they wish to know who bills the sewerage and water services for this property. For a list of all potential retailers of sewerage and water services for the property please visit [www.open-water.org.uk](http://www.open-water.org.uk).

## Question 4.5

For your guidance:

- If a Trade effluent consent applies to the premises which are the subject of this search, it is for the applicant to satisfy itself as to the suitability of the consent for its client's requirements. The occupier of any trade premises in the area of a sewerage undertaker may discharge any trade effluent proceeding from those premises into the undertaker's public sewers if he does so with the undertaker's consent. If, in the case of any trade premises, any trade effluent is discharged without such consent or other authorisation, the occupier of the premises shall be guilty of an offence.
- Please note any existing consent is dependent on the business being carried out at the property and will not transfer automatically upon change of ownership.
- For further information regarding Trade Effluent consents please contact: Trade Effluent Control, Crossness STW, Belvedere Road, Abbey Wood London SE2 9AQ.

# CommercialDW Drainage and Water Enquiry Terms and Conditions

Customer and Clients are asked to note these terms, which govern the basis on which this CommercialDW Drainage & Water Enquiry is supplied

## Definitions

'Client' means the person, company or body who is the intended recipient of the Report with an actual or potential interest in the Property.

'Company' means a water service company or their data service provider producing the Report.

'Customer' means the person, company, firm or other legal body placing the Order, either on their own behalf as Client, or, as an agent for a Client.

'Order' means any request completed by the Customer requesting the Report.

'Property' means the address or location supplied by the Customer in the Order.

'Report' means the drainage and/or water report prepared by The Company in respect of the Property.

'Thames Water' means Thames Water Utilities Limited registered in England and Wales under number 2366661 whose registered office is at Clearwater Court, Vastern Road, Reading, Berks, RG1 8DB;

## Agreement

- 1 Thames Water agrees to supply the Report to the Customer and the Client subject to these terms. The scope and limitations of the Report are described in paragraph 2 of these terms. Where the Customer is acting as an agent for the Client then the Customer shall be responsible for bringing these terms to the attention of the Client. The Customer and Client agree that the placing of an Order for a Report indicates their acceptance of these terms.

## The Report

2. Whilst Thames Water will use reasonable care and skill in producing the Report, it is provided to the Customer and the Client on the basis that they acknowledge and agree to the following:-
  - 2.1 The information contained in the Report can change on a regular basis so Thames Water cannot be responsible to the Customer and the Client for any change in the information contained in the Report after the date on which the Report was produced and sent to the Client.
  - 2.2 The Report does not give details about the actual state or condition of the Property nor should it be used or taken to indicate or exclude actual suitability or unsuitability of the Property for any particular purpose, or relied upon for determining saleability or value, or used as substitute for any physical investigation or inspection. Further advice and information from appropriate experts and professionals should always be obtained.
  - 2.3 The information contained in the Report is based upon the accuracy, completeness and legibility of the address and other information supplied by the Customer or Client.
  - 2.4 The Report provides information as to the location and connection of existing services and should not be relied on for any other purpose. The Report may contain opinions or general advice to the Customer and the Client and Thames Water cannot ensure that any such opinion or general advice is accurate, complete or valid and accepts no liability therefore.
  - 2.5 The position and depth of apparatus shown on any maps attached to the Report are approximate, and are furnished as a general guide only, and no warranty as to its correctness is given or implied. The exact positions and depths should be obtained by excavation trial holes and the maps must not be relied on in the event of excavation or other works made in the vicinity of apparatus shown on any maps.

## Liability

- 3 Thames Water shall not be liable to the Client for any failure, defect or non-performance of its obligations arising from any failure of, or defect in any machine, processing system or transmission link or anything beyond Thames Water's reasonable control or the acts or omissions of any party for whom Thames Water are not responsible.
  - 3.1 Where the Customer sells this report to a Client (other than in the case of a bona fide legal adviser recharging the cost of the Report as a disbursement) Thames Water shall not in any circumstances (whether for breach of contract, negligence or any other tort, under statute or statutory duty or otherwise at all) be liable for any loss or damage whatsoever and the Customer shall indemnify Thames Water in respect of any claim by the Client.
  - 3.2 Where a report is requested for an address falling within a geographical area where Thames Water and another Company separately provide Water and Sewerage Services, then it shall be deemed that liability for the information given by Thames Water or the Company as the case may be will remain with Thames Water or the Company as the case may be in respect of the accuracy of the information supplied. Where Thames Water is supplying information which has been provided to it by another Company for the purposes outlined in this agreement Thames Water will therefore not be liable in any way for the accuracy of that information and will supply that information as agent for the Company from which the information was obtained.
  - 3.3 Except in respect of death or personal injury caused by negligence, or as expressly provided in these Terms:
    - 3.3.1 The entire liability of Thames Water or the Company as the case may be in respect of all causes of action arising under or in connection with the Report (whether for breach of contract, negligence or any other tort, under statute or statutory duty or otherwise at all) shall not exceed £2,000,000 (two million pounds); and
    - 3.3.2 Thames Water shall not in any circumstances (whether for breach of contract, negligence or any other tort, under statute or statutory duty or otherwise at all) be liable for any loss of profit, loss of goodwill, loss of

reputation, loss of business or any indirect, special or consequential loss, damage or other claims, costs or expenses;

## Copyright and Confidentiality

4. The Customer and the Client acknowledge that the Report is confidential and is intended for the personal use of the Client. The copyright and any other intellectual property rights in the Report shall remain the property of Thames Water or the Company as the case may be. No intellectual or other property rights are transferred or licensed to the Customer or the Client except to the extent expressly provided
  - 4.1 The Customer or Client is entitled to make copies of the Report but is not permitted to copy any maps contained in, or attached to the Report
  - 4.2 The maps contained in the Report are protected by Crown Copyright and must not be used for any purpose outside the context of the Report.
  - 4.3 The Customer and Client agree (in respect of both the original and any copies made) to respect and not to alter any trademark, copyright notice or other property marking which appears on the Report.

## Payment

5. Unless otherwise stated all prices are inclusive of VAT. The Customer shall pay for the price of the Report specified by Thames Water, without any set off, deduction or counterclaim.
  - 5.1 Unless payment has been received in advance, Customers shall be invoiced for the agreed fee once their request has been processed. Any such invoice must be paid within 14 days. Where the Customer has an account with Thames Water, payment terms will be as agreed with Thames Water.
  - 5.2 No payment shall be deemed to have been received until Thames Water has received cleared funds.
  - 5.3 If the Customer fails to pay Thames Water any sum due Thames Water shall be entitled but not obliged to charge the Customer interest on the sum from the due date for payment at the annual rate of 2% above the base lending rate from time to time of Natwest Bank, accruing on a daily basis until payment is made. Thames Water reserves the right to claim interest under the Late Payment of Commercial Debts (Interest) Act 1998.
  - 5.4 Thames Water reserves the right to increase fees on reasonable prior written notice at any time.

## Cancellations or Alterations

6. Once an Order is placed, Thames Water shall not be under any obligation to accept any request to cancel that Order and payment for the Order shall still be due upon completion of the Report. In cases where an error has been made in the original Order (e.g. the Customer has supplied an incorrect address), the Customer will need to place a second Order, detailing the correct information, and shall be liable to pay a second charge in accordance with clause 5 above.

## Delivery

7. On receiving your order the reports will be posted to you within 10 working days from receipt.
  - 7.1 Delivery is subject to local post conditions and regulations. All items should arrive within 12 working days, but Thames Water cannot be held responsible should delays be caused by local post conditions, postal strikes or other causes beyond the control of Thames Water.

## General

8. If any provision of these terms is or becomes invalid or unenforceable, it will be taken to be removed from the rest of these terms to the extent that it is invalid or unenforceable. No other provision of these terms shall be affected.
  - 8.1 These terms shall be governed by English law and all parties submit to the exclusive jurisdiction of the English courts.
  - 8.2 Nothing in this notice shall in any way restrict the Customer or Clients statutory or any other rights of access to the information contained in the Report.

**These Terms & Conditions are available in larger print for those with impaired vision.**

## Terms and Conditions

All sales are made in accordance with Thames Water Utilities Limited (TWUL) standard terms and conditions unless previously agreed in writing.

1. All goods remain in the property of TWUL until full payment is received.
2. Provision of service will be in accordance with all legal requirements and published TWUL policies.
3. All invoices are strictly due for payment 14 days from due date of the invoice. Any other terms must be accepted/agreed in writing prior to provision of goods or service, or will be held to be invalid.
4. TWUL does not accept post-dated cheques-any cheques received will be processed for payment on date of receipt.
5. In case of dispute TWUL's terms and conditions shall apply.
6. Penalty interest may be invoked by TWUL in the event of unjustifiable payment delay. Interest charges will be in line with UK Statute Law 'The Late Payment of Commercial Debts (Interest) Act 1998'.
7. Interest will be charged in line with current Court Interest Charges, if legal action is taken.
8. A charge may be made at TWUL's discretion for increased administration costs.

A copy of TWUL's standard terms and conditions are available from the Commercial Billing Team (cashoperations@thameswater.co.uk).

We publish several Codes of Practice including a guaranteed standards scheme. You can obtain copies of these leaflets by calling us on 0800 316 9800.

If you are unhappy with our service you can speak to your original goods or customer service provider. If you are not satisfied with the response, your complaint will be reviewed by the Customer Services Director. You can write to her at: Thames Water Utilities Ltd. PO Box 492, Swindon, SN38 8TU.

If the goods or services covered by this invoice falls under the regulation of the Water Industry Act 1991, and you remain dissatisfied you can refer your complaint to CC Water on 0845 039 2837 (it will cost you the same as a local call) or write to them at 11 Belgrave Road, London SW1V 1RB.

### Ways to pay your bill

|                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                        |                                                                                                                                                             |                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>By Post</b> – Cheque only, made payable to 'Thames Water Utilities Ltd' writing your Thames Water account number on the back. Please fill in the payment slip below and send it with your cheque to Thames Water Utilities Ltd., PO Box 223, Swindon SN38 2TW | <b>By BACS Payment</b> direct to our bank on account number 90478703, sort code 60-00-01 may be made. A remittance advice must be sent to Thames Water Utilities Ltd., PO Box 223, Swindon SN38 2TW. Or fax to 01793 424599 or email: cashoperations@thameswater.co.uk | <b>Telephone Banking</b><br>By calling your bank and quoting your invoice number and the Thames Water's bank account number 90478703 and sort code 60-00-01 | <b>By Swift Transfer</b><br>You may make your payment via SWIFT by quoting <b>NWBKGB2L</b> together with our bank account number 90478703, sort code 60-00-01 and invoice number |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Thames Water Utilities Ltd Registered in England & Wales No. 2366661 Registered Office Clearwater Court, Vastern Rd, Reading, Berks, RG1 8DB.

## **Appendix I**

### **Potable Water Capacity Letter from Thames Water**



Your reference: DS6090685

Your site address: Caversham Park, Reading RG4 8TZ

Ms Joanne Nayler  
Beechcroft Developments Ltd  
1 Church Lane  
Wallingford  
OX10 0DX

## Clean water capacity report

**Status:** Capacity concerns

**Date:** 9<sup>th</sup> December 2021

**Validity:** Valid until 8<sup>th</sup> December 2022 or for the duration of your Local Authority planning permission when this report is used to support your application.

We confirm that there will be sufficient capacity on our clean water network to serve the following properties on your development: 25 residential houses.

However, we're unable to confirm capacity for your whole development consisting of 62 residential houses, 92 residential flats and a 64-bed care home without further investigation. How to make a request for us to progress with network modelling activity is listed in the accompanying email.

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

Please note that the below POC is based on desktop study and it might change after capacity check study or site-specific survey.

### Nearest point of connection

9" main on Peppard Road.





## Contaminated land

If your site is on contaminated land, any new water pipes laid should be barrier pipe which is more expensive. If you think this is not the case you will need to provide a soil report when applying for new mains and services.

## Development located within Source Protection Zone

The applicant is advised that their development boundary falls within a Source Protection Zone for groundwater abstraction. These zones may be at particular risk from polluting activities on or below the land surface. To prevent pollution, the Environment Agency and Thames Water (or other local water undertaker) will use a tiered, risk-based approach to regulate activities that may impact groundwater resources. The applicant is encouraged to read the Environment Agency's approach to groundwater protection (available at <https://www.gov.uk/government/publications/groundwater-protection-position-statements>) and may wish to discuss the implication for their development with a suitably qualified environmental consultant.

## Diversions

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

## Building water

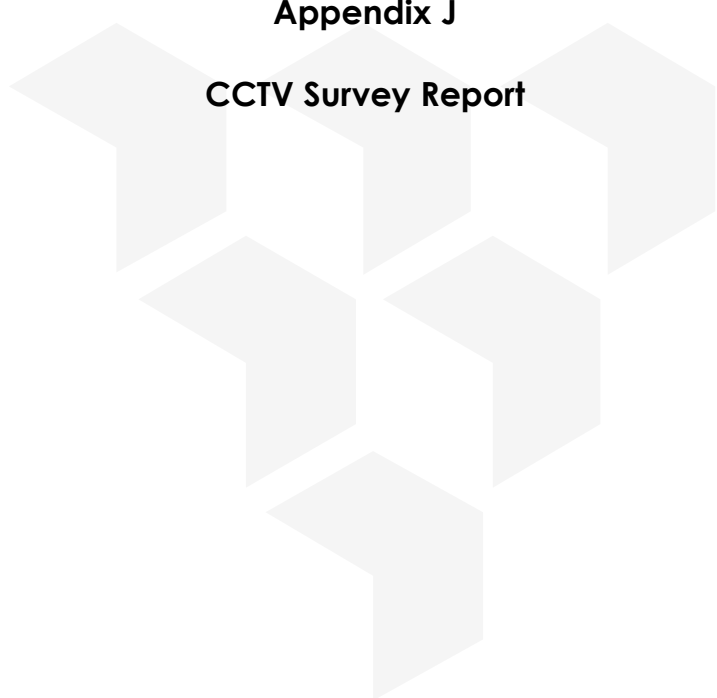
It's important that you apply for a building water supply before you start using water on site even if you believe your supply is already metered. We need to ensure your account is properly set up and you have the correct meter for your supply or fines maybe imposed. Apply [here](#).

## Fire hydrant and sprinkler demand

Please note that we cannot 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. Valve operations must be carried out by our Network Service Technician which can be booked on 0800 316 9800.

## Asset location search

If you need help in identifying the location of existing water mains and sewers, you can get this information from any property search provider. We have a Property Searches team who will carry out an asset location search, which provides information on the location of known Thames Water clean and/or wastewater assets, including details of pipe sizes, direction of flow and depth (for which a fee is payable). You can find out more [online](#) or by calling us on 0845 070 9148.



## **Appendix J**

### **CCTV Survey Report**



## CCTV Inspection Report



### Reading Office

Unit B9, Great Knollys Street, Reading, Berkshire, RG1 7HN  
Tel: 0118 950 4477

|                             |                                               |                                |                           |
|-----------------------------|-----------------------------------------------|--------------------------------|---------------------------|
| Job Number<br><b>780878</b> | Surveyed by (Operator)<br><b>PAUL BAYNHAM</b> | Base Unit<br><b>DDFRT6A12S</b> | Date<br><b>13/06/2019</b> |
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## Defect Grade Descriptions

| Job Number<br><b>780878</b>                                                                                                                                                                                                                                                                                                                                                                                                                                  | Surveyed by (Operator)<br><b>PAUL BAYNHAM</b> | Base Unit<br><b>DDFRT6A12S</b> | Date<br><b>13/06/2019</b> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------|---------------------------|
| <p>1: Occurences without damage. For example, laterals, joints,etc.</p> <p>NO DEFECTS WERE DETECTED.</p>                                                                                                                                                                                                                                                                                                                                                     |                                               |                                |                           |
| <p>2: Constructional deficiencies or occurences with insignificant influence to tightness, hydraulic or static pressure or pipe: Eg. wide joints, badly torched intakes, minor deformation of plastic pipes, minor erosions etc.</p> <p>REHABILITATION CAN BE SCHEDULED LONG-TERM.</p>                                                                                                                                                                       |                                               |                                |                           |
| <p>3: Constructional deficiencies diminishing static, hydraulic and tightness: Eg. untorched intakes, cracks, minor drainage obstructions such as calcite build ups, protruding laterals, minor damages to pipe wall, individual root penetrations, corroded pipe walls etc.</p> <p>REHABILITATION IS NECESSARY MEDIUM-TERM WITHIN 3 TO 5 YEARS.</p>                                                                                                         |                                               |                                |                           |
| <p>4: Constructional damages with insufficient static safety, hydraulic or tightness: Eg. axial/radial pipe bursts, pipe deformations, visually noticeable infiltration/exfiltration, cavities, in pipe-wall, severe protruding, laterals severe root penetrations, severe corrosion of pipe wall etc.</p> <p>REHABILITATION PROCEDURE IS URGENT AND HAS TO BE COMPLETED WITHIN 1 TO 2 YEARS.<br/>NECESSITY FOR EMERGENCY OPERATIONS HAS TO BE EXAMINED.</p> |                                               |                                |                           |
| <p>5: Pipe is already or will shortly be impermeable: Eg. collapsed pipe, deeply rooted pipe or other drainage obstructions. Pipe loses water or danger of backwater in basements etc.</p> <p>REHABILITATION IS URGENT AND SHORT-TERM. IN ORDER TO PREVENT FURTHER DAMAGE,<br/>NECESSARY TEMPORARY SPOT REPAIR HAS TO BE CONDUCTED ON EMERGENCY LEVEL.</p>                                                                                                   |                                               |                                |                           |

|                             |                                               |                                |                           |
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|-----------------------------|-----------------------------------------------|--------------------------------|---------------------------|

This sketch is not to scale and does not represent the exact routing of the drainage system



## Site Photos

Job Number  
**780878**

Surveyed by (Operator)  
**PAUL BAYNHAM**

Base Unit  
**DDFRT6A12S**

Date  
**13/06/2019**



**Manhole / Access Point: SWMH2 Internal**



**Manhole / Access Point: SWMH4 Internal**



**Manhole / Access Point: SWMH5 Internal**



**Manhole / Access Point: FWMH1 Internal**



**Manhole / Access Point: FWMH2 Internal**



**Manhole / Access Point: FWMH3 Internal**

## Site Photos

Job Number  
**780878**

Surveyed by (Operator)  
**PAUL BAYNHAM**

Base Unit  
**DDFRT6A12S**

Date  
**13/06/2019**



**Manhole / Access Point: FWMH5 Internal**



**Manhole / Access Point: PUMP STATION Internal**



**Manhole / Access Point: FWMH1B Internal**



**Manhole / Access Point: FWMH1A Internal**



**Manhole / Access Point: FWMH10 Internal**



**Manhole / Access Point: FWMH12 Internal**

Job Number  
**780878**

Surveyed by (Operator)  
**PAUL BAYNHAM**

Base Unit  
**DDFRT6A12S**

Date  
**13/06/2019**



**Manhole / Access Point: FWMH11 Internal**



**Manhole / Access Point: FWMH13 Internal**



**Manhole / Access Point: RWP Location**



**Manhole / Access Point: SWMH10 Internal**



**Manhole / Access Point: SWMH12 Internal**



**Manhole / Access Point: SWMH14 Internal**

| Job Number<br>780878                                                                                                                    | Surveyed by (Operator)<br>PAUL BAYNHAM | Base Unit<br>DDFRT6A12S                                                                                                                    | Date<br>13/06/2019 |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
|  <p><b>Manhole / Access Point: FWMH15 Internal</b></p>  |                                        |  <p><b>Manhole / Access Point: FWMH21 Internal</b></p>   |                    |
|  <p><b>Manhole / Access Point: FWMH22 Internal</b></p> |                                        |  <p><b>Manhole / Access Point: SWMH17 Internal</b></p>  |                    |
|  <p><b>Manhole / Access Point: SWMH7 Internal</b></p> |                                        |  <p><b>Manhole / Access Point: SWMH18 Internal</b></p> |                    |

| Job Number<br><b>780878</b>                                                                                                              | Surveyed by (Operator)<br><b>PAUL BAYNHAM</b> | Base Unit<br><b>DDFRT6A12S</b>                                                                                                             | Date<br><b>13/06/2019</b> |
|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
|  <p><b>Manhole / Access Point: SWMH19 Internal</b></p>   |                                               |  <p><b>Manhole / Access Point: FWMH7 Internal</b></p>    |                           |
|  <p><b>Manhole / Access Point: FWMH8 Internal</b></p>   |                                               |  <p><b>Manhole / Access Point: FWMH16 Internal</b></p>  |                           |
|  <p><b>Manhole / Access Point: FWMH18 Internal</b></p> |                                               |  <p><b>Manhole / Access Point: FWMH25 Internal</b></p> |                           |

| Job Number<br><b>780878</b>                                                                                                              | Surveyed by (Operator)<br><b>PAUL BAYNHAM</b> | Base Unit<br><b>DDFRT6A12S</b>                                                                                                             | Date<br><b>13/06/2019</b> |
|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
|  <p><b>Manhole / Access Point: SWMH9 Internal</b></p>    |                                               |  <p><b>Manhole / Access Point: SWMH11 Internal</b></p>   |                           |
|  <p><b>Manhole / Access Point: FWMH14 Internal</b></p>  |                                               |  <p><b>Manhole / Access Point: SWMH16 Internal</b></p>  |                           |
|  <p><b>Manhole / Access Point: FWMH19 Internal</b></p> |                                               |  <p><b>Manhole / Access Point: FWMH24 Internal</b></p> |                           |

| Job Number<br><b>780878</b>                                                                                                             | Surveyed by (Operator)<br><b>PAUL BAYNHAM</b> | Base Unit<br><b>DDFRT6A12S</b>                                                                                                            | Date<br><b>13/06/2019</b> |
|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
|  <p><b>Manhole / Access Point: FWMH23 Internal</b></p>  |                                               |  <p><b>Manhole / Access Point: SWMH15 Internal</b></p>  |                           |
|  <p><b>Manhole / Access Point: SWMH3 Internal</b></p>  |                                               |  <p><b>Manhole / Access Point: SWMH1 Internal</b></p>  |                           |
|  <p><b>Manhole / Access Point: FWMH4 Internal</b></p> |                                               |  <p><b>Manhole / Access Point: FWMH6 Internal</b></p> |                           |

Job Number  
**780878**

Surveyed by (Operator)  
**PAUL BAYNHAM**

Base Unit  
**DDFRT6A12S**

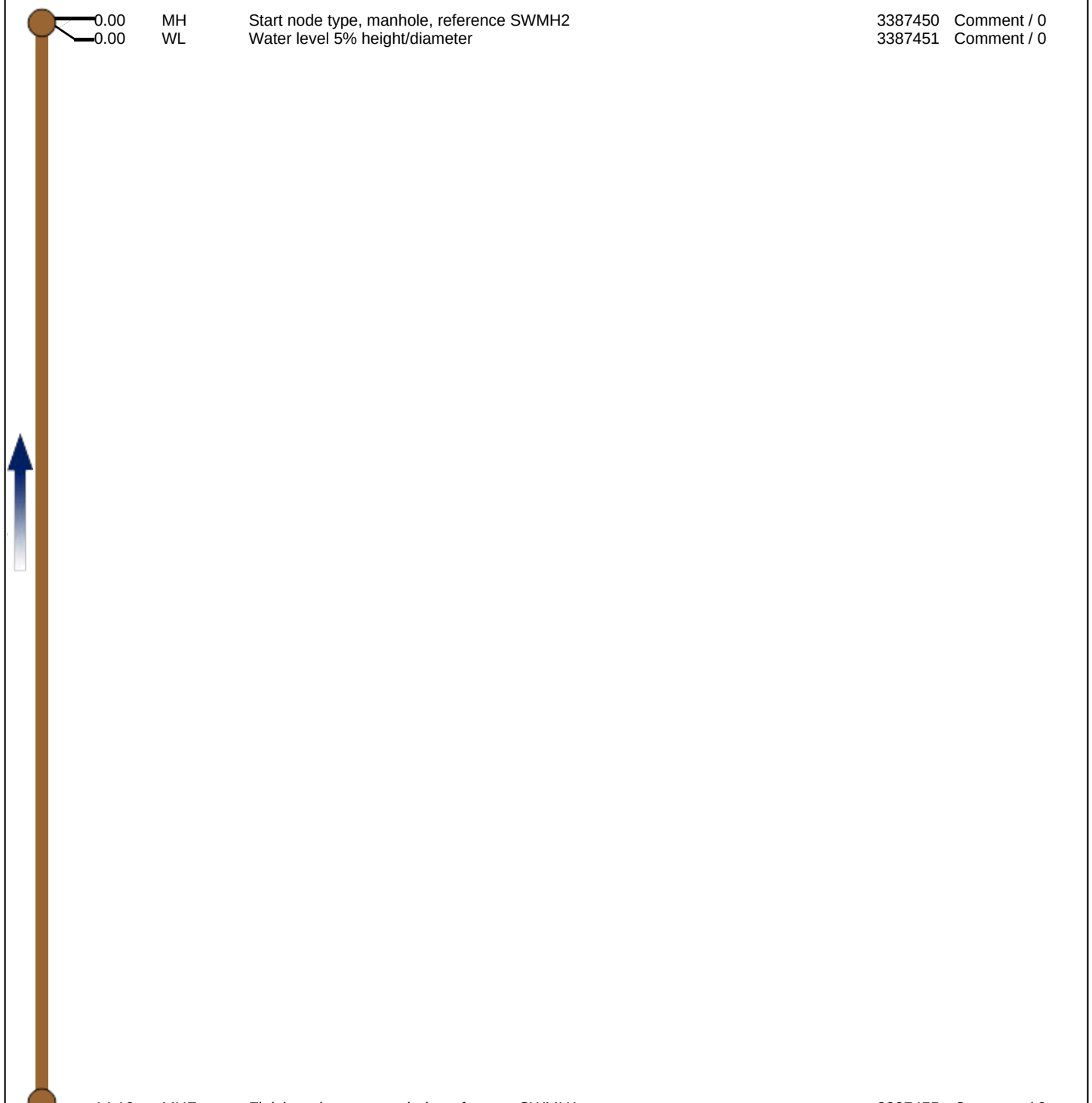
Date  
**13/06/2019**



**Manhole / Access Point:** FWMH9 Internal

|                                                                                |                                                                       |                                              |                                                                                 |                                                        |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                           | Pipe Length Reference(PLR)<br><b>SWMH1 X</b> | Date<br><b>13/06/2019</b>                                                       | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                      | Service Grade/Structural Grade<br><b>0/0</b> | Base Unit<br><b>DDFRT6A12S</b>                                                  | Section Number<br><b>1</b>                             |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                       | Division<br>District<br>Location Details     |                                                                                 |                                                        |
| Purpose<br>Duty <b>Surface water</b><br>Catchment                              | Shape/Size <b>150mm</b><br>Material <b>Vitrified clay</b><br>Category |                                              | Start MH <b>SWMH2</b><br>End MH <b>SWMH1</b><br>Total length <b>14.1 metres</b> |                                                        |
| Scale <b>1:0.73</b><br>Direction <b>Upstream</b>                               |                                                                       |                                              |                                                                                 |                                                        |

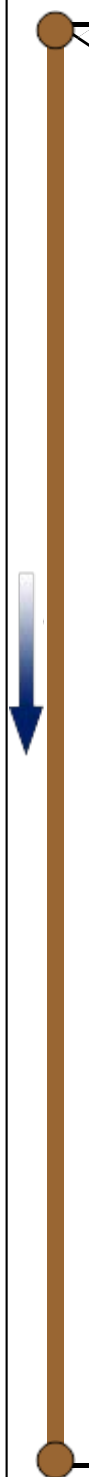
M/H Ref: SWMH2 | I/L : metres | M/H Depth: 1600 metres

| Position                                                                           | Code | Description                                | Photo   | Type/Grade  |
|------------------------------------------------------------------------------------|------|--------------------------------------------|---------|-------------|
| 0.00                                                                               | MH   | Start node type, manhole, reference SWMH2  | 3387450 | Comment / 0 |
| 0.00                                                                               | WL   | Water level 5% height/diameter             | 3387451 | Comment / 0 |
|  |      |                                            |         |             |
| 14.10                                                                              | MHF  | Finish node type, manhole, reference SWMH1 | 3387455 | Comment / 0 |

M/H Ref: SWMH1 | I/L : metres | M/H Depth: 0 metres

|                                                                                |                                                                       |                                              |                                                                                  |                                                        |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                           | Pipe Length Reference(PLR)<br><b>SWMH2 X</b> | Date<br><b>13/06/2019</b>                                                        | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                      | Service Grade/Structural Grade<br><b>0/0</b> | Base Unit<br><b>DDFRT6A12S</b>                                                   | Section Number<br><b>2</b>                             |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                       | Division<br>District<br>Location Details     |                                                                                  |                                                        |
| Purpose<br>Duty <b>Surface water</b><br>Catchment                              | Shape/Size <b>150mm</b><br>Material <b>Vitrified clay</b><br>Category |                                              | Start MH <b>SWMH2</b><br>End MH <b>SWMH3</b><br>Total length <b>19.67 metres</b> |                                                        |
| Scale <b>1:1.00</b><br>Direction <b>Downstream</b>                             |                                                                       |                                              |                                                                                  |                                                        |

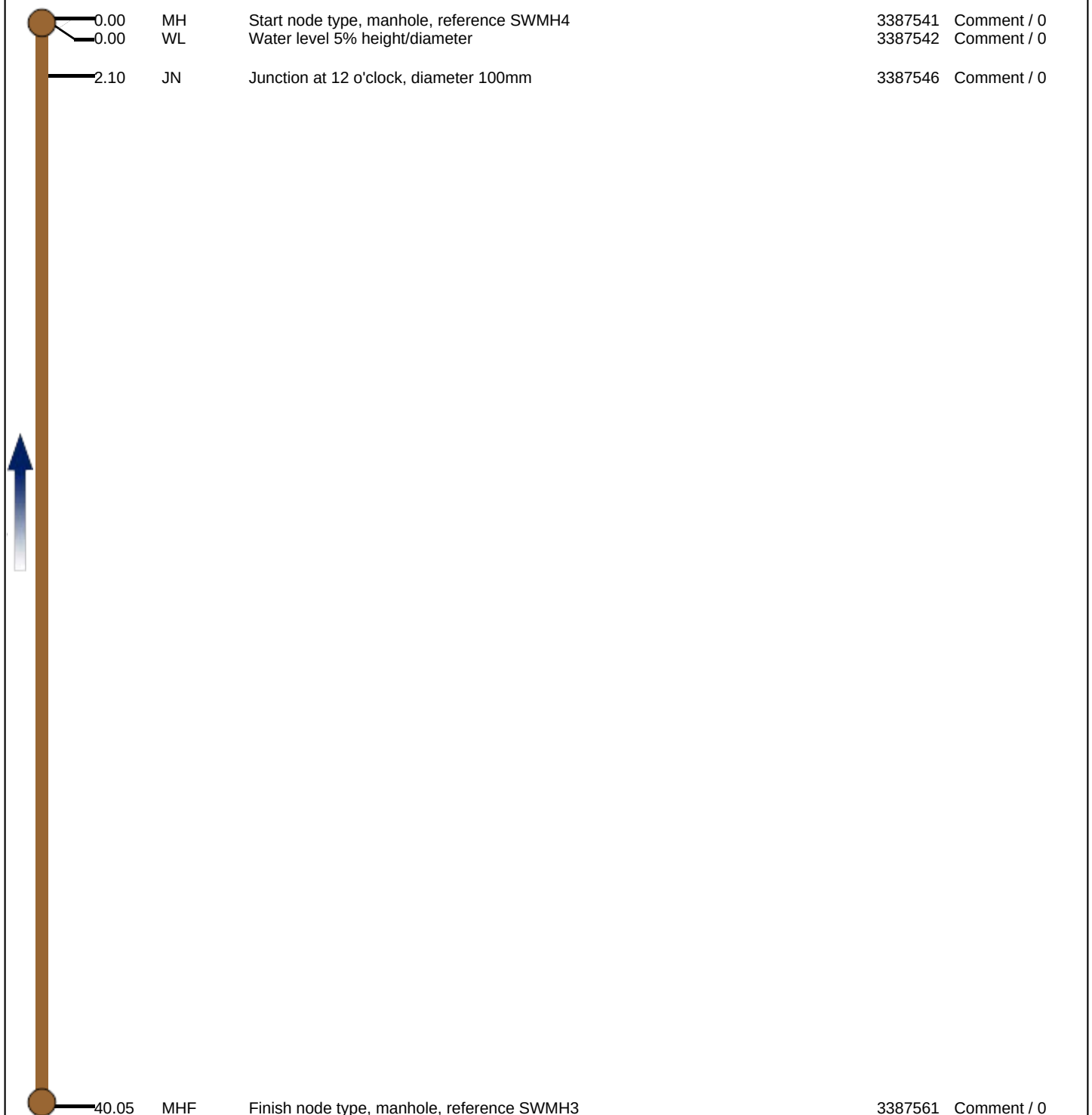
M/H Ref:SWMH2 | I/L : metres | M/H Depth: 1600 metres

| Position                                                                          | Code | Description                                | Photo   | Type/Grade  |
|-----------------------------------------------------------------------------------|------|--------------------------------------------|---------|-------------|
| 0.00                                                                              | MH   | Start node type, manhole, reference SWMH2  | 3387480 | Comment / 0 |
| 0.00                                                                              | WL   | Water level 5% height/diameter             | 3387481 | Comment / 0 |
|  |      |                                            |         |             |
| 19.67                                                                             | MHF  | Finish node type, manhole, reference SWMH3 | 3387497 | Comment / 0 |

M/H Ref:SWMH3 | I/L : metres | M/H Depth: 1960 metres

|                                                                                |                                                                       |                                              |                                                                                  |                                                        |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                           | Pipe Length Reference(PLR)<br><b>SWMH3 X</b> | Date<br><b>13/06/2019</b>                                                        | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                      | Service Grade/Structural Grade<br><b>0/0</b> | Base Unit<br><b>DDFRT6A12S</b>                                                   | Section Number<br><b>3</b>                             |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                       | Division<br>District<br>Location Details     |                                                                                  |                                                        |
| Purpose<br>Duty <b>Surface water</b><br>Catchment                              | Shape/Size <b>225mm</b><br>Material <b>Vitrified clay</b><br>Category |                                              | Start MH <b>SWMH4</b><br>End MH <b>SWMH3</b><br>Total length <b>40.05 metres</b> |                                                        |
| Scale <b>1:2.10</b><br>Direction <b>Upstream</b>                               |                                                                       |                                              |                                                                                  |                                                        |

M/H Ref: SWMH4 | I/L : metres | M/H Depth: 2310 metres

| Position                                                                           | Code | Description                                | Photo   | Type/Grade  |
|------------------------------------------------------------------------------------|------|--------------------------------------------|---------|-------------|
| 0.00                                                                               | MH   | Start node type, manhole, reference SWMH4  | 3387541 | Comment / 0 |
| 0.00                                                                               | WL   | Water level 5% height/diameter             | 3387542 | Comment / 0 |
| 2.10                                                                               | JN   | Junction at 12 o'clock, diameter 100mm     | 3387546 | Comment / 0 |
|  |      |                                            |         |             |
| 40.05                                                                              | MHF  | Finish node type, manhole, reference SWMH3 | 3387561 | Comment / 0 |

M/H Ref: SWMH3 | I/L : metres | M/H Depth: 1960 metres

|                                                                                |                                                                       |                                              |                                                                                  |                                                        |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                           | Pipe Length Reference(PLR)<br><b>SWMH4 X</b> | Date<br><b>13/06/2019</b>                                                        | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                      | Service Grade/Structural Grade<br><b>0/0</b> | Base Unit<br><b>DDFRT6A12S</b>                                                   | Section Number<br><b>4</b>                             |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                       | Division<br>District<br>Location Details     |                                                                                  |                                                        |
| Purpose<br>Duty <b>Surface water</b><br>Catchment                              | Shape/Size <b>225mm</b><br>Material <b>Vitrified clay</b><br>Category |                                              | Start MH <b>SWMH4</b><br>End MH <b>SWMH5</b><br>Total length <b>23.11 metres</b> |                                                        |
| Scale <b>1:1.21</b><br>Direction <b>Downstream</b>                             |                                                                       |                                              |                                                                                  |                                                        |

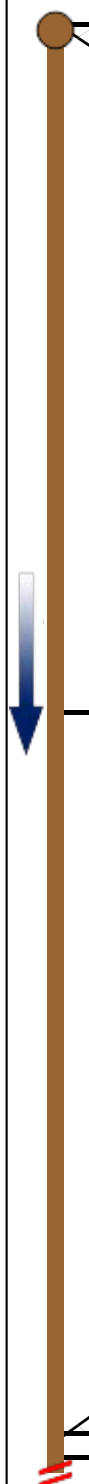
M/H Ref:SWMH4 | I/L : metres | M/H Depth: 2310 metres

| Position | Code | Description                                | Photo   | Type/Grade  |
|----------|------|--------------------------------------------|---------|-------------|
| 0.00     | MH   | Start node type, manhole, reference SWMH4  | 3387584 | Comment / 0 |
| 0.00     | WL   | Water level 5% height/diameter             | 3387586 | Comment / 0 |
| 4.11     | JN   | Junction at 2 o'clock, diameter 150mm      | 3387591 | Comment / 0 |
| 23.11    | MHF  | Finish node type, manhole, reference SWMH5 | 3387606 | Comment / 0 |

M/H Ref:SWMH5 | I/L : metres | M/H Depth: 2410 metres

|                                                                                |                                                                       |                                              |                                                                                   |                                                        |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                           | Pipe Length Reference(PLR)<br><b>SWMH5 X</b> | Date<br><b>13/06/2019</b>                                                         | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                      | Service Grade/Structural Grade<br><b>5/0</b> | Base Unit<br><b>DDFRT6A12S</b>                                                    | Section Number<br><b>5</b>                             |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                       | Division<br>District<br>Location Details     |                                                                                   |                                                        |
| Purpose<br>Duty <b>Surface water</b><br>Catchment                              | Shape/Size <b>225mm</b><br>Material <b>Vitrified clay</b><br>Category |                                              | Start MH <b>SWMH5</b><br>End MH <b>SWMH18</b><br>Total length <b>25.89 metres</b> |                                                        |
| Scale <b>1:1.31</b><br>Direction <b>Downstream</b>                             |                                                                       |                                              |                                                                                   |                                                        |

M/H Ref: SWMH5 | I/L : metres | M/H Depth: 2410 metres

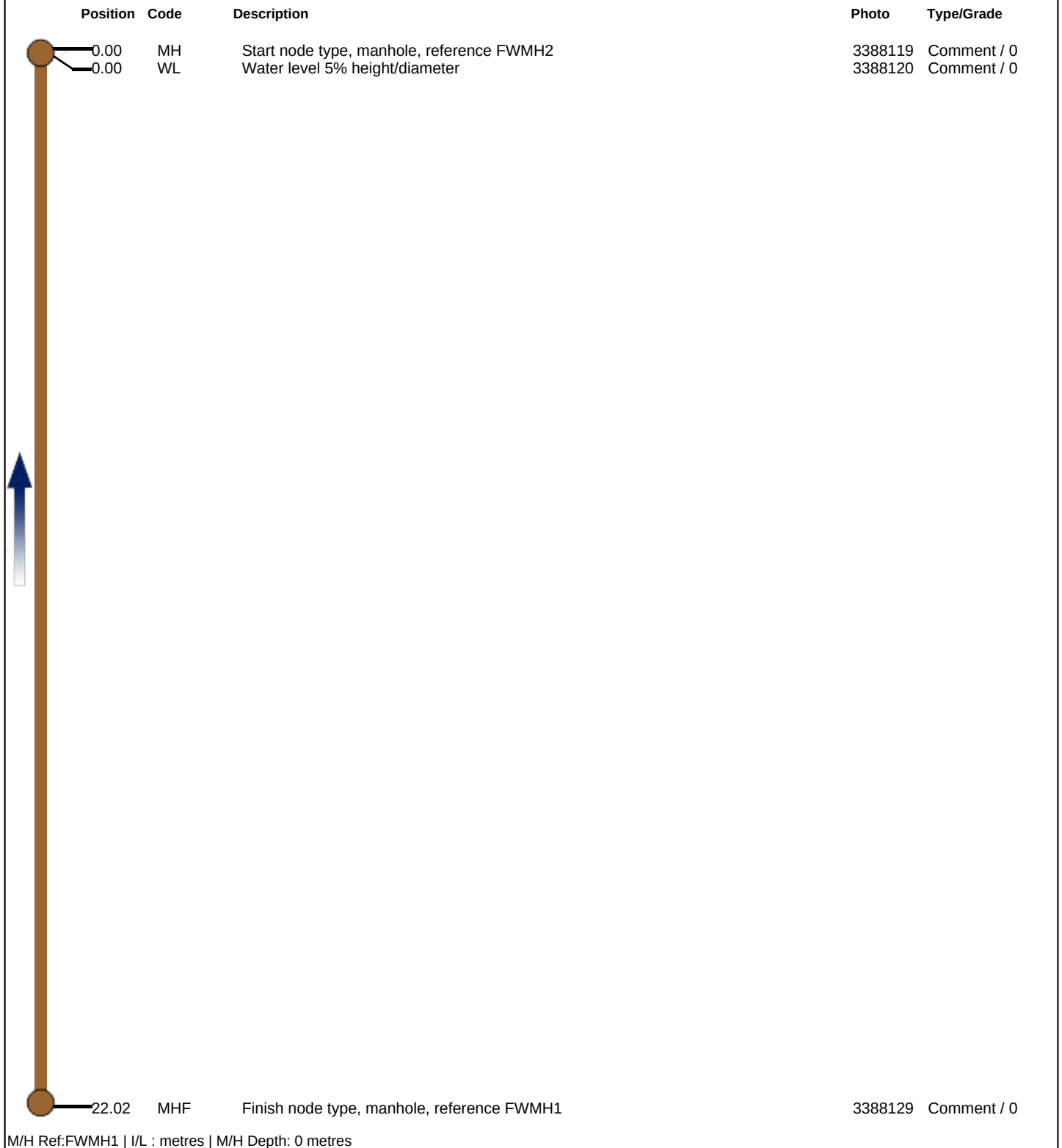
| Position                                                                          | Code | Description                                                                                                       | Photo   | Type/Grade  |
|-----------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------|---------|-------------|
| 0.00                                                                              | MH   | Start node type, manhole, reference SWMH5                                                                         | 3387753 | Comment / 0 |
| 0.00                                                                              | WL   | Water level 5% height/diameter                                                                                    | 3387754 | Comment / 0 |
|  |      |                                                                                                                   |         |             |
| 12.36                                                                             | JN   | Junction at 1 o'clock, diameter 100mm                                                                             | 3387758 | Comment / 0 |
| 25.57                                                                             | JN   | Junction at 1 o'clock, diameter 100mm                                                                             | 3387779 | Comment / 0 |
| 25.57                                                                             | OBC  | Other obstacles through connection/junction at 1 o'clock 50% cross-sectional area loss                            | 3387791 | Service / 5 |
| 25.89                                                                             | SA   | Survey abandoned - Remark: ABANDONED SURVEY DUE TO ROD PROTRUDING THROUGH JUNCTION UNABLE TO GET CAMERA PAST ROD. | 3387830 | Comment / 0 |

M/H Ref: SWMH18 | I/L : metres | M/H Depth: 2700 metres

| Job Number<br><b>780878</b>                                                                                                                                                                                                                | Surveyed by (Operator)<br><b>PAUL BAYNHAM</b> | Base Unit<br><b>DDFRT6A12S</b>                                                                                                                                                                                                                                          | Date<br><b>13/06/2019</b> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| <p>From: SWMH3 / To: SWMH6<br/>Size: 225</p>  <p>25.57 M</p> <p>Other obstacles through connection/junction at 1 o'clock 50% cross-sectional area loss</p> |                                               | <p>From: SWMH5 / To: SWMH6<br/>Size: 225</p>  <p>25.89 M</p> <p>Survey abandoned - Remark: ABANDONED SURVEY DUE TO ROD PROTRUDING THROUGH JUNCTION UNABLE TO GET CAMERA PAST ROD.</p> |                           |

|                                                                                |                                                                  |                                              |                                                                                  |                                                        |
|--------------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                      | Pipe Length Reference(PLR)<br><b>FWMH1 X</b> | Date<br><b>13/06/2019</b>                                                        | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                 | Service Grade/Structural Grade<br><b>0/0</b> | Base Unit<br><b>DDFRT6A12S</b>                                                   | Section Number<br><b>6</b>                             |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                  | Division<br>District<br>Location Details     |                                                                                  |                                                        |
| Purpose<br>Duty <b>Foul</b><br>Catchment                                       | Shape/Size <b>100mm</b><br>Material <b>Cast iron</b><br>Category |                                              | Start MH <b>FWMH2</b><br>End MH <b>FWMH1</b><br>Total length <b>22.02 metres</b> |                                                        |
| Scale <b>1:1.15</b><br>Direction <b>Upstream</b>                               |                                                                  |                                              |                                                                                  |                                                        |

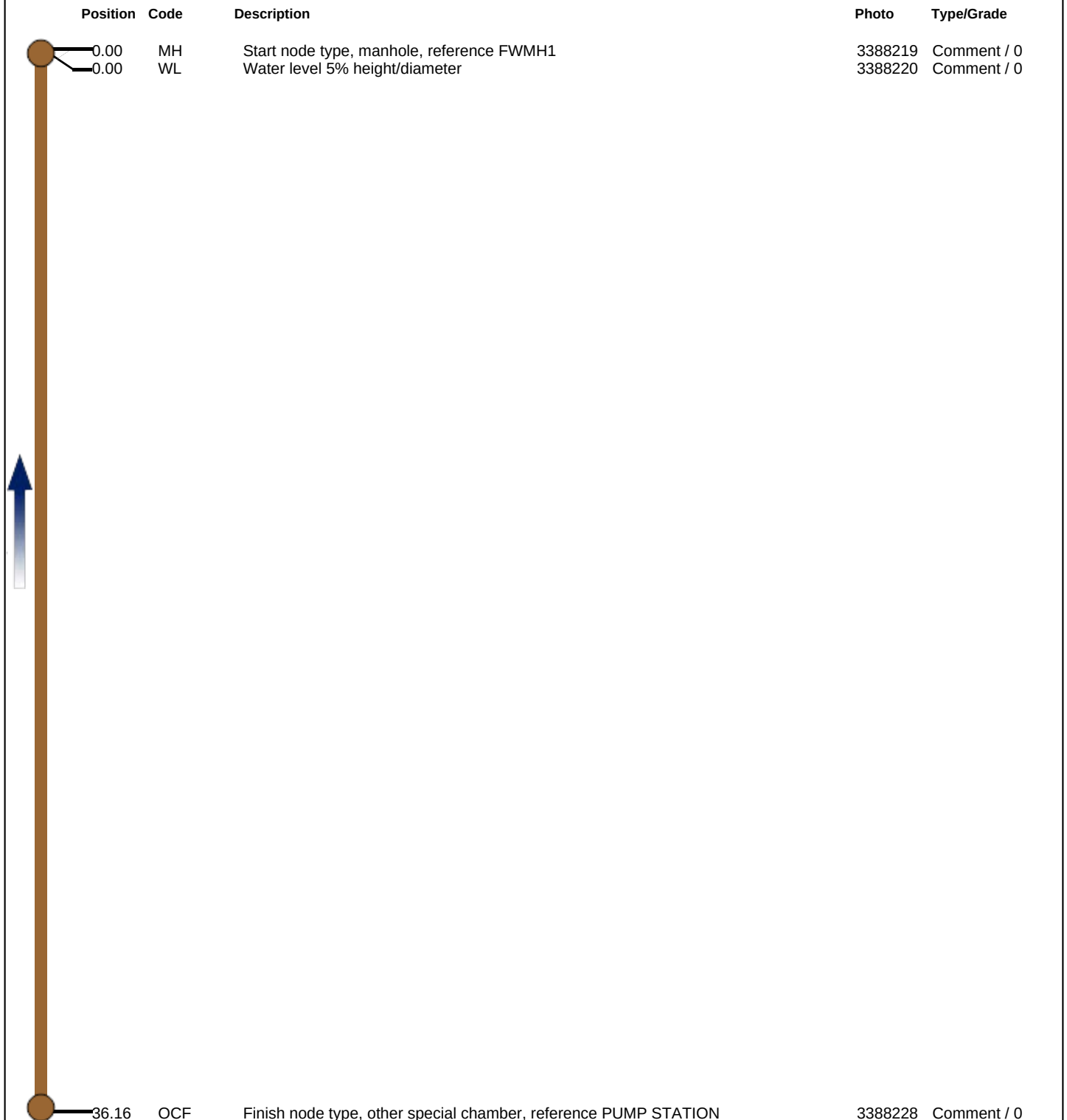
M/H Ref:FWMH2 | I/L : metres | M/H Depth: 1070 metres

| Position                                                                           | Code | Description                                | Photo   | Type/Grade  |
|------------------------------------------------------------------------------------|------|--------------------------------------------|---------|-------------|
| 0.00                                                                               | MH   | Start node type, manhole, reference FWMH2  | 3388119 | Comment / 0 |
| 0.00                                                                               | WL   | Water level 5% height/diameter             | 3388120 | Comment / 0 |
|  |      |                                            |         |             |
| 22.02                                                                              | MHF  | Finish node type, manhole, reference FWMH1 | 3388129 | Comment / 0 |

M/H Ref:FWMH1 | I/L : metres | M/H Depth: 0 metres

|                                                                                |                                                                  |                                                  |                                                                                         |                                                        |
|--------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                      | Pipe Length Reference(PLR)<br><b>PUMP STATIX</b> | Date<br><b>13/06/2019</b>                                                               | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                 | Service Grade/Structural Grade<br><b>0/0</b>     | Base Unit<br><b>DDFRT6A12S</b>                                                          | Section Number<br><b>7</b>                             |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                  | Division<br>District<br>Location Details         |                                                                                         |                                                        |
| Purpose<br>Duty <b>Foul</b><br>Catchment                                       | Shape/Size <b>100mm</b><br>Material <b>Cast iron</b><br>Category |                                                  | Start MH <b>FWMH1</b><br>End MH <b>PUMP STATION</b><br>Total length <b>36.16 metres</b> |                                                        |
| Scale <b>1:1.89</b><br>Direction <b>Upstream</b>                               |                                                                  |                                                  |                                                                                         |                                                        |

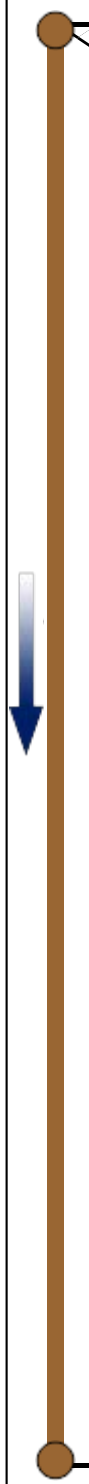
M/H Ref:FWMH1 | I/L : metres | M/H Depth: 910 metres



M/H Ref:PUMP STATION | I/L : metres | M/H Depth: 0 metres

|                                                                                |                                                                  |                                              |                                                                                  |                                                        |
|--------------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                      | Pipe Length Reference(PLR)<br><b>FWMH3 X</b> | Date<br><b>13/06/2019</b>                                                        | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                 | Service Grade/Structural Grade<br><b>0/0</b> | Base Unit<br><b>DDFRT6A12S</b>                                                   | Section Number<br><b>8</b>                             |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                  | Division<br>District<br>Location Details     |                                                                                  |                                                        |
| Purpose<br>Duty <b>Foul</b><br>Catchment                                       | Shape/Size <b>150mm</b><br>Material <b>Cast iron</b><br>Category |                                              | Start MH <b>FWMH3</b><br>End MH <b>FWMH4</b><br>Total length <b>22.02 metres</b> |                                                        |
| Scale <b>1:1.15</b><br>Direction <b>Downstream</b>                             |                                                                  |                                              |                                                                                  |                                                        |

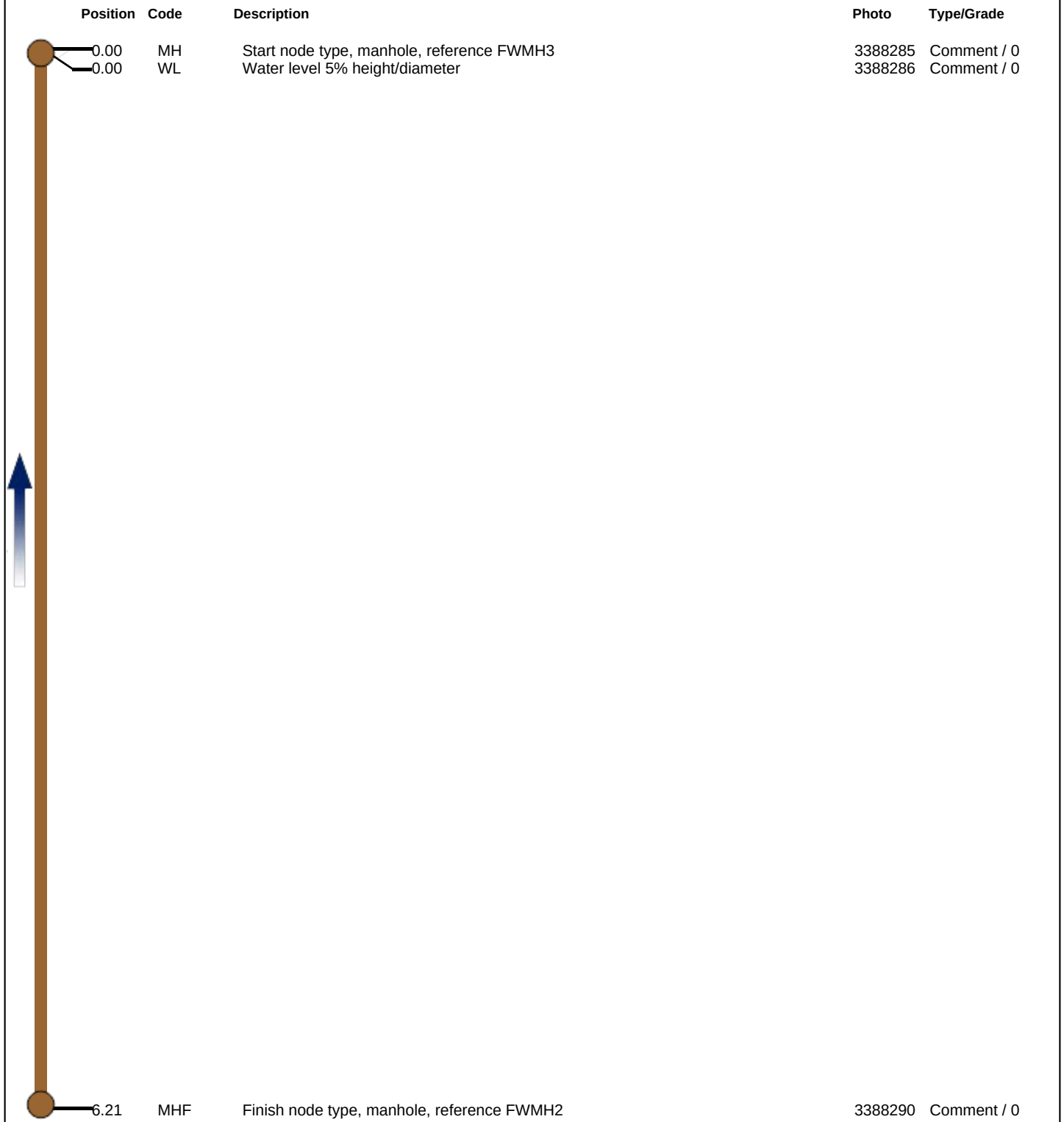
M/H Ref:FWMH3 | I/L : metres | M/H Depth: 1150 metres

| Position                                                                          | Code | Description                                | Photo   | Type/Grade  |
|-----------------------------------------------------------------------------------|------|--------------------------------------------|---------|-------------|
| 0.00                                                                              | MH   | Start node type, manhole, reference FWMH3  | 3388245 | Comment / 0 |
| 0.00                                                                              | WL   | Water level 5% height/diameter             | 3388246 | Comment / 0 |
|  |      |                                            |         |             |
| 22.02                                                                             | MHF  | Finish node type, manhole, reference FWMH4 | 3388257 | Comment / 0 |

M/H Ref:FWMH4 | I/L : metres | M/H Depth: 0 metres

|                                                                                |                                                                  |                                              |                                                                                 |                                                        |
|--------------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                      | Pipe Length Reference(PLR)<br><b>FWMH2 X</b> | Date<br><b>13/06/2019</b>                                                       | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                 | Service Grade/Structural Grade<br><b>0/0</b> | Base Unit<br><b>DDFRT6A12S</b>                                                  | Section Number<br><b>9</b>                             |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                  | Division<br>District<br>Location Details     |                                                                                 |                                                        |
| Purpose<br>Duty <b>Foul</b><br>Catchment                                       | Shape/Size <b>150mm</b><br>Material <b>Cast iron</b><br>Category |                                              | Start MH <b>FWMH3</b><br>End MH <b>FWMH2</b><br>Total length <b>6.21 metres</b> |                                                        |
| Scale <b>1:0.31</b><br>Direction <b>Upstream</b>                               |                                                                  |                                              |                                                                                 |                                                        |

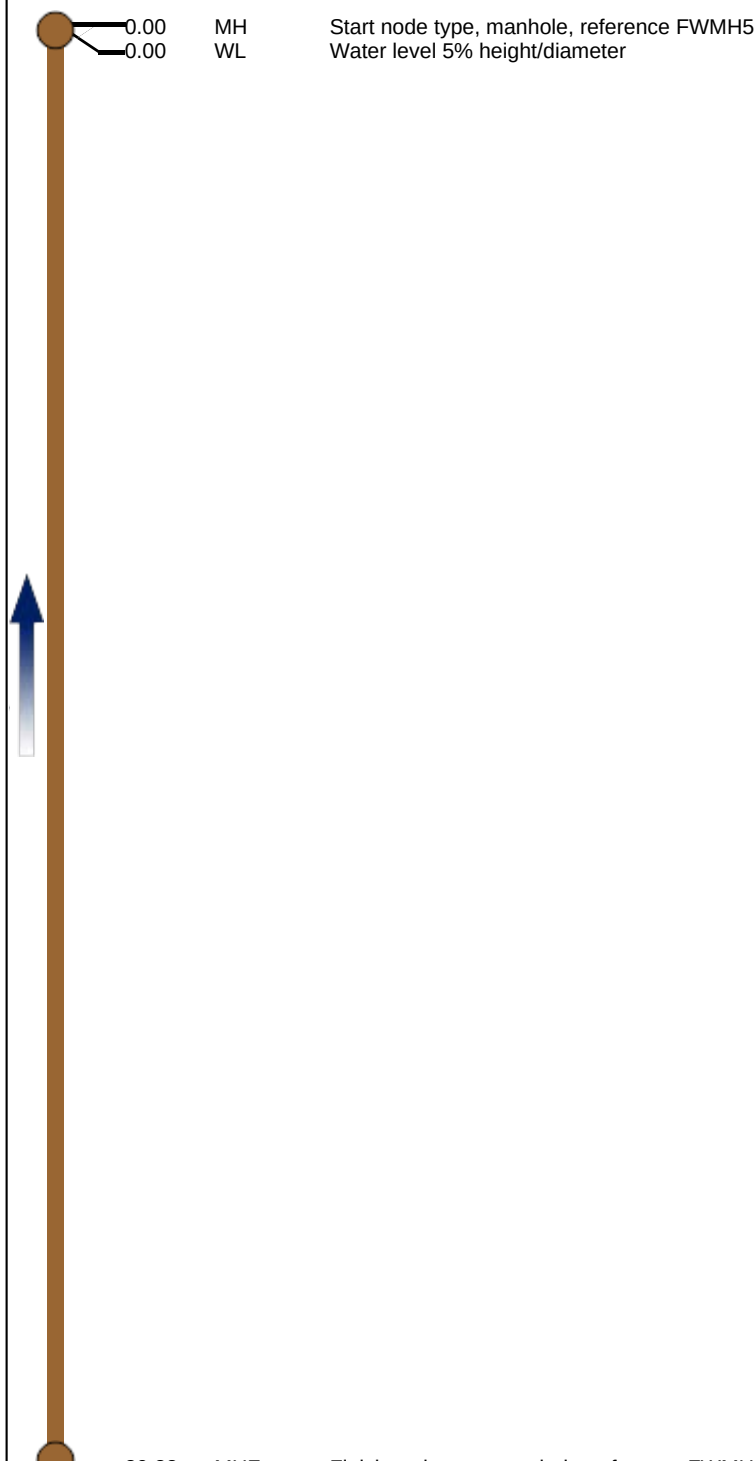
M/H Ref:FWMH3 | I/L : metres | M/H Depth: 1150 metres

| Position                                                                           | Code | Description                                | Photo   | Type/Grade  |
|------------------------------------------------------------------------------------|------|--------------------------------------------|---------|-------------|
| 0.00                                                                               | MH   | Start node type, manhole, reference FWMH3  | 3388285 | Comment / 0 |
| 0.00                                                                               | WL   | Water level 5% height/diameter             | 3388286 | Comment / 0 |
|  |      |                                            |         |             |
| 6.21                                                                               | MHF  | Finish node type, manhole, reference FWMH2 | 3388290 | Comment / 0 |

M/H Ref:FWMH2 | I/L : metres | M/H Depth: 1070 metres

|                                                                                |                                                                  |                                              |                                                                                  |                                                        |
|--------------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                      | Pipe Length Reference(PLR)<br><b>FWMH4 X</b> | Date<br><b>13/06/2019</b>                                                        | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                 | Service Grade/Structural Grade<br><b>0/0</b> | Base Unit<br><b>DDFRT6A12S</b>                                                   | Section Number<br><b>10</b>                            |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                  | Division<br>District<br>Location Details     |                                                                                  |                                                        |
| Purpose<br>Duty <b>Foul</b><br>Catchment                                       | Shape/Size <b>150mm</b><br>Material <b>Cast iron</b><br>Category |                                              | Start MH <b>FWMH5</b><br>End MH <b>FWMH4</b><br>Total length <b>30.38 metres</b> |                                                        |
| Scale <b>1:1.57</b><br>Direction <b>Upstream</b>                               |                                                                  |                                              |                                                                                  |                                                        |

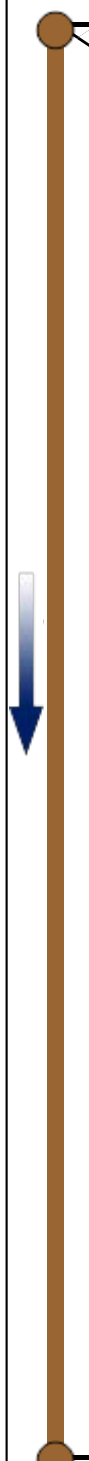
M/H Ref:FWMH5 | I/L : metres | M/H Depth: 1710 metres

| Position                                                                          | Code | Description                                | Photo   | Type/Grade  |
|-----------------------------------------------------------------------------------|------|--------------------------------------------|---------|-------------|
| 0.00                                                                              | MH   | Start node type, manhole, reference FWMH5  | 3390997 | Comment / 0 |
| 0.00                                                                              | WL   | Water level 5% height/diameter             | 3390998 | Comment / 0 |
|  |      |                                            |         |             |
| 30.38                                                                             | MHF  | Finish node type, manhole, reference FWMH4 | 3390999 | Comment / 0 |

M/H Ref:FWMH4 | I/L : metres | M/H Depth: 0 metres

|                                                                                |                                                                  |                                              |                                                                                  |                                                        |
|--------------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                      | Pipe Length Reference(PLR)<br><b>FWMH5 X</b> | Date<br><b>13/06/2019</b>                                                        | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                 | Service Grade/Structural Grade<br><b>0/0</b> | Base Unit<br><b>DDFRT6A12S</b>                                                   | Section Number<br><b>11</b>                            |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                  | Division<br>District<br>Location Details     |                                                                                  |                                                        |
| Purpose<br>Duty <b>Foul</b><br>Catchment                                       | Shape/Size <b>150mm</b><br>Material <b>Cast iron</b><br>Category |                                              | Start MH <b>FWMH5</b><br>End MH <b>FWMH6</b><br>Total length <b>14.34 metres</b> |                                                        |
| Scale <b>1:0.73</b><br>Direction <b>Downstream</b>                             |                                                                  |                                              |                                                                                  |                                                        |

M/H Ref:FWMH5 | I/L : metres | M/H Depth: 1710 metres

| Position                                                                          | Code | Description                                    | Photo   | Type/Grade  |
|-----------------------------------------------------------------------------------|------|------------------------------------------------|---------|-------------|
| 0.00                                                                              | MH   | Start node type, manhole, reference FWMH5      | 3391000 | Comment / 0 |
| 0.00                                                                              | WL   | Water level 5% height/diameter                 | 3391001 | Comment / 0 |
|  |      |                                                |         |             |
| 14.34                                                                             | REM  | NOW AT RUNNING TRAP AT FWMH6                   | 3391002 | Comment / 0 |
| 14.34                                                                             | WRF  | Finish node type, Winsor trap, reference FWMH6 | 3391003 | Comment / 0 |

M/H Ref:FWMH6 | I/L : metres | M/H Depth: 0 metres

|                             |                                               |                                |                           |
|-----------------------------|-----------------------------------------------|--------------------------------|---------------------------|
| Job Number<br><b>780878</b> | Surveyed by (Operator)<br><b>PAUL BAYNHAM</b> | Base Unit<br><b>DDFRT6A12S</b> | Date<br><b>13/06/2019</b> |
|-----------------------------|-----------------------------------------------|--------------------------------|---------------------------|



NOW AT RUNNING TRAP AT FWMH6

|                                                                                |                                                                       |                                               |                                                                                         |                                                        |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                           | Pipe Length Reference(PLR)<br><b>FWMH1B X</b> | Date<br><b>14/06/2019</b>                                                               | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                      | Service Grade/Structural Grade<br><b>0/3</b>  | Base Unit<br><b>DDFRT6A12S</b>                                                          | Section Number<br><b>12</b>                            |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                       | Division<br>District<br>Location Details      |                                                                                         |                                                        |
| Purpose<br>Duty <b>Foul</b><br>Catchment                                       | Shape/Size <b>150mm</b><br>Material <b>Vitrified clay</b><br>Category |                                               | Start MH <b>FWMH1B</b><br>End MH <b>PUMP STATION</b><br>Total length <b>1.67 metres</b> |                                                        |
| Scale <b>1:0.05</b><br>Direction <b>Downstream</b>                             |                                                                       |                                               |                                                                                         |                                                        |

M/H Ref:FWMH1B | I/L : metres | M/H Depth: 1180 metres

| Position | Code | Description                                                  | Photo   | Type/Grade     |
|----------|------|--------------------------------------------------------------|---------|----------------|
| 0.00     | MH   | Start node type, manhole, reference FWMH1B                   | 3391006 | Comment / 0    |
| 0.00     | WL   | Water level 5% height/diameter                               | 3391012 | Comment / 0    |
| 0.44     | CM   | Cracks multiple from 1 to 5 o'clock                          | 3391031 | Structural / 3 |
| 1.67     | ICF  | Finish node type, inspection chamber, reference PUMP STATION | 3391043 | Comment / 0    |

M/H Ref:PUMP STATION | I/L : metres | M/H Depth: 0 metres

Job Number  
**780878**

Surveyed by (Operator)  
**PAUL BAYNHAM**

Base Unit  
**DDFRT6A12S**

Date  
**14/06/2019**



Cracks multiple from 1 to 5 o'clock

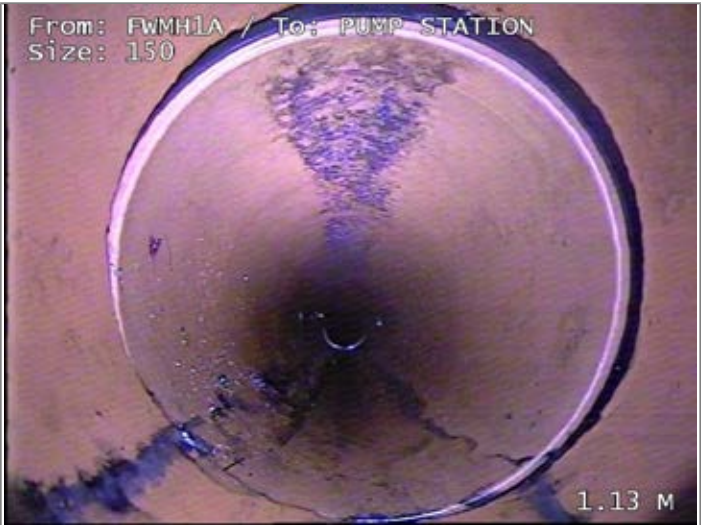
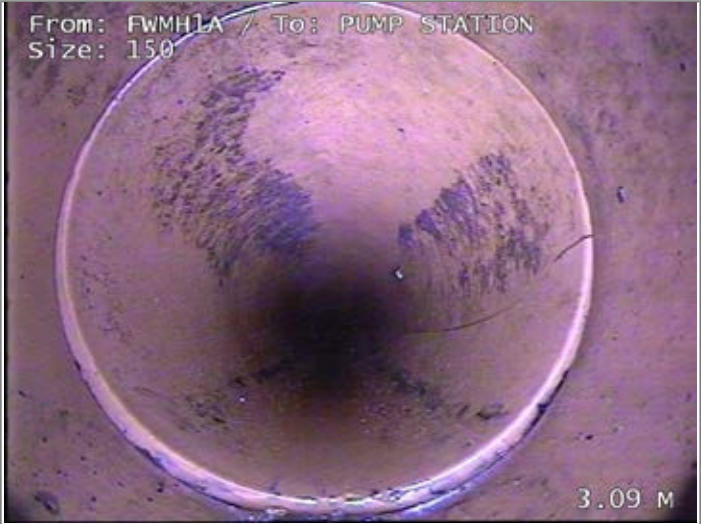
|                                                                                |                                                                       |                                               |                                                                                          |                                                        |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                           | Pipe Length Reference(PLR)<br><b>FWMH1A X</b> | Date<br><b>14/06/2019</b>                                                                | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                      | Service Grade/Structural Grade<br><b>0/2</b>  | Base Unit<br><b>DDFRT6A12S</b>                                                           | Section Number<br><b>13</b>                            |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                       | Division<br>District<br>Location Details      |                                                                                          |                                                        |
| Purpose<br>Duty <b>Foul</b><br>Catchment                                       | Shape/Size <b>150mm</b><br>Material <b>Vitrified clay</b><br>Category |                                               | Start MH <b>FWMH1A</b><br>End MH <b>PUMP STATION</b><br>Total length <b>16.49 metres</b> |                                                        |

Scale **1:0.84**  
Direction **Downstream**

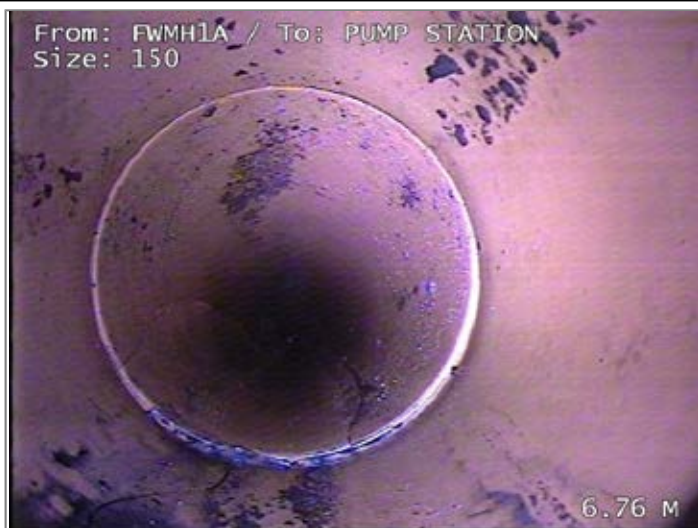
M/H Ref:FWMH1A | I/L : metres | M/H Depth: 1500 metres

| Position | Code    | Description                                                  | Photo   | Type/Grade     |
|----------|---------|--------------------------------------------------------------|---------|----------------|
| 0.00     | MH      | Start node type, manhole, reference FWMH1A                   | 3391087 | Comment / 0    |
| 0.00     | WL      | Water level 5% height/diameter                               | 3391088 | Comment / 0    |
| 1.13     | CL (S1) | Crack longitudinal at 7 o'clock, Start                       | 3391094 | Structural / 2 |
| 3.09     | CL (F1) | Crack longitudinal at 7 o'clock, Start, Finished             | 3391095 | Structural / 2 |
| 3.09     | CL (S2) | Crack longitudinal at 3 o'clock, Start                       | 3391096 | Structural / 2 |
| 4.95     | CL (F2) | Crack longitudinal at 3 o'clock, Start, Finished             | 3391098 | Structural / 2 |
| 5.01     | CL (S3) | Crack longitudinal at 7 o'clock, Start                       | 3391099 | Structural / 2 |
| 6.76     | CL (F3) | Crack longitudinal at 7 o'clock, Start, Finished             | 3391101 | Structural / 2 |
| 6.76     | CL (S4) | Crack longitudinal at 5 o'clock, Start                       | 3391102 | Structural / 2 |
| 7.01     | CL (S5) | Crack longitudinal at 9 o'clock, Start                       | 3391103 | Structural / 2 |
| 8.79     | CL (F4) | Crack longitudinal at 5 o'clock, Start, Finished             | 3391106 | Structural / 2 |
| 8.79     | CL (F5) | Crack longitudinal at 9 o'clock, Start, Finished             | 3391107 | Structural / 2 |
| 16.49    | ICF     | Finish node type, inspection chamber, reference PUMP STATION | 3391409 | Comment / 0    |

M/H Ref:PUMP STATION | I/L : metres | M/H Depth: 0 metres

| Job Number<br>780878                                                                                                                                                                                                     | Surveyed by (Operator)<br>PAUL BAYNHAM | Base Unit<br>DDFRT6A12S | Date<br>14/06/2019 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-------------------------|--------------------|
| <div> <div> From: FWMH1A / To: PUMP STATION<br/>Size: 150 </div>  <div>Crack longitudinal at 7 o'clock, Start</div> </div>               |                                        |                         |                    |
| <div> <div> From: FWMH1A / To: PUMP STATION<br/>Size: 150 </div>  <div>Crack longitudinal at 7 o'clock, Start, Finished</div> </div>   |                                        |                         |                    |
| <div> <div> From: FWMH1A / To: PUMP STATION<br/>Size: 150 </div>  <div>Crack longitudinal at 3 o'clock, Start</div> </div>              |                                        |                         |                    |
| <div> <div> From: FWMH1A / To: PUMP STATION<br/>Size: 150 </div>  <div>Crack longitudinal at 3 o'clock, Start, Finished</div> </div>  |                                        |                         |                    |
| <div> <div> From: FWMH1A / To: PUMP STATION<br/>Size: 150 </div>  <div>Crack longitudinal at 7 o'clock, Start</div> </div>             |                                        |                         |                    |
| <div> <div> From: FWMH1A / To: PUMP STATION<br/>Size: 150 </div>  <div>Crack longitudinal at 7 o'clock, Start, Finished</div> </div> |                                        |                         |                    |

|                             |                                               |                                |                           |
|-----------------------------|-----------------------------------------------|--------------------------------|---------------------------|
| Job Number<br><b>780878</b> | Surveyed by (Operator)<br><b>PAUL BAYNHAM</b> | Base Unit<br><b>DDFRT6A12S</b> | Date<br><b>14/06/2019</b> |
|-----------------------------|-----------------------------------------------|--------------------------------|---------------------------|



Crack longitudinal at 5 o'clock, Start



Crack longitudinal at 9 o'clock, Start



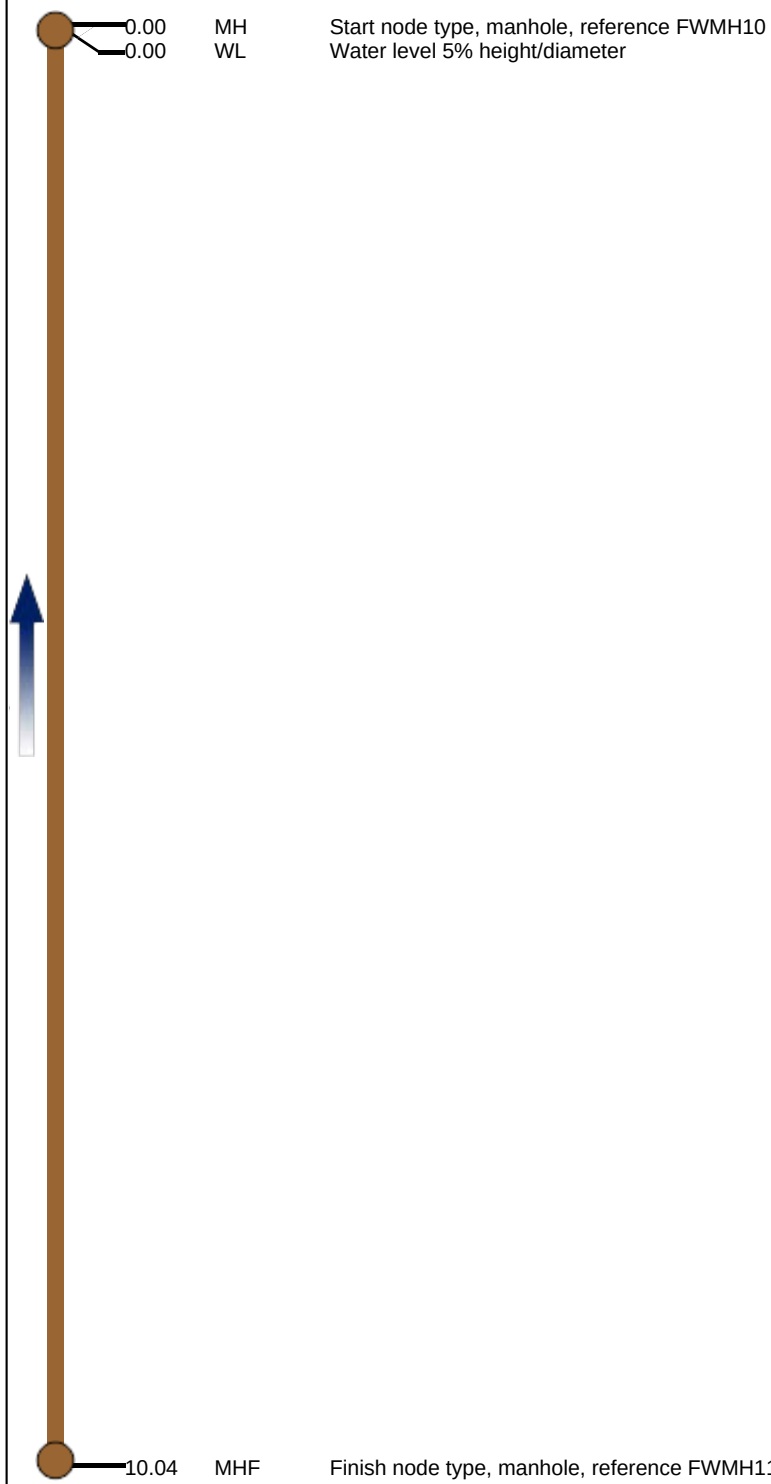
Crack longitudinal at 5 o'clock, Start, Finished



Crack longitudinal at 9 o'clock, Start, Finished

|                                                                                |                                                                       |                                               |                                                                                    |                                                        |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                           | Pipe Length Reference(PLR)<br><b>FWMH11 X</b> | Date<br><b>14/06/2019</b>                                                          | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                      | Service Grade/Structural Grade<br><b>0/0</b>  | Base Unit<br><b>DDFRT6A12S</b>                                                     | Section Number<br><b>14</b>                            |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                       | Division<br>District<br>Location Details      |                                                                                    |                                                        |
| Purpose<br>Duty <b>Foul</b><br>Catchment                                       | Shape/Size <b>100mm</b><br>Material <b>Vitrified clay</b><br>Category |                                               | Start MH <b>FWMH10</b><br>End MH <b>FWMH11</b><br>Total length <b>10.04 metres</b> |                                                        |
| Scale <b>1:0.52</b><br>Direction <b>Upstream</b>                               |                                                                       |                                               |                                                                                    |                                                        |

M/H Ref:FWMH10 | I/L : metres | M/H Depth: 1360 metres

| Position                                                                          | Code | Description                                 | Photo   | Type/Grade  |
|-----------------------------------------------------------------------------------|------|---------------------------------------------|---------|-------------|
| 0.00                                                                              | MH   | Start node type, manhole, reference FWMH10  | 3391531 | Comment / 0 |
| 0.00                                                                              | WL   | Water level 5% height/diameter              | 3391532 | Comment / 0 |
|  |      |                                             |         |             |
| 10.04                                                                             | MHF  | Finish node type, manhole, reference FWMH11 | 3391533 | Comment / 0 |

M/H Ref:FWMH11 | I/L : metres | M/H Depth: 1000 metres

|                                                                                |                                                                       |                                               |                                                                                   |                                                        |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                           | Pipe Length Reference(PLR)<br><b>FWMH12 X</b> | Date<br><b>14/06/2019</b>                                                         | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                      | Service Grade/Structural Grade<br><b>0/0</b>  | Base Unit<br><b>DDFRT6A12S</b>                                                    | Section Number<br><b>15</b>                            |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                       | Division<br>District<br>Location Details      |                                                                                   |                                                        |
| Purpose<br>Duty <b>Foul</b><br>Catchment                                       | Shape/Size <b>100mm</b><br>Material <b>Vitrified clay</b><br>Category |                                               | Start MH <b>FWMH11</b><br>End MH <b>FWMH12</b><br>Total length <b>7.07 metres</b> |                                                        |
| Scale <b>1:0.37</b><br>Direction <b>Upstream</b>                               |                                                                       |                                               |                                                                                   |                                                        |

M/H Ref:FWMH11 | I/L : metres | M/H Depth: 1000 metres

| Position                                                                          | Code | Description                                 | Photo   | Type/Grade  |
|-----------------------------------------------------------------------------------|------|---------------------------------------------|---------|-------------|
| 0.00                                                                              | MH   | Start node type, manhole, reference FWMH11  | 3391534 | Comment / 0 |
| 0.00                                                                              | WL   | Water level 5% height/diameter              | 3391535 | Comment / 0 |
|  |      |                                             |         |             |
| 7.07                                                                              | MHF  | Finish node type, manhole, reference FWMH12 | 3391536 | Comment / 0 |

M/H Ref:FWMH12 | I/L : metres | M/H Depth: 840 metres

|                                                                                |                                                                       |                                               |                                                                                   |                                                        |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                           | Pipe Length Reference(PLR)<br><b>FWMH10 X</b> | Date<br><b>14/06/2019</b>                                                         | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                      | Service Grade/Structural Grade<br><b>0/3</b>  | Base Unit<br><b>DDFRT6A12S</b>                                                    | Section Number<br><b>16</b>                            |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                       | Division<br>District<br>Location Details      |                                                                                   |                                                        |
| Purpose<br>Duty <b>Foul</b><br>Catchment                                       | Shape/Size <b>100mm</b><br>Material <b>Vitrified clay</b><br>Category |                                               | Start MH <b>FWMH10</b><br>End MH <b>FWMH9</b><br>Total length <b>10.73 metres</b> |                                                        |
| Scale <b>1:0.52</b><br>Direction <b>Downstream</b>                             |                                                                       |                                               |                                                                                   |                                                        |

M/H Ref:FWMH10 | I/L : metres | M/H Depth: 1360 metres

| Position | Code | Description                                | Photo   | Type/Grade     |
|----------|------|--------------------------------------------|---------|----------------|
| 0.00     | MH   | Start node type, manhole, reference FWMH10 | 3391537 | Comment / 0    |
| 0.00     | WL   | Water level 5% height/diameter             | 3391538 | Comment / 0    |
| 9.09     | CC   | Crack circumferential from 1 to 11 o'clock | 3391540 | Structural / 2 |
| 10.21    | CM   | Cracks multiple from 9 to 5 o'clock        | 3391541 | Structural / 3 |
| 10.73    | MHF  | Finish node type, manhole, reference FWMH9 | 3391542 | Comment / 0    |

M/H Ref:FWMH9 | I/L : metres | M/H Depth: 0 metres

Job Number  
**780878**

Surveyed by (Operator)  
**PAUL BAYNHAM**

Base Unit  
**DDFRT6A12S**

Date  
**14/06/2019**



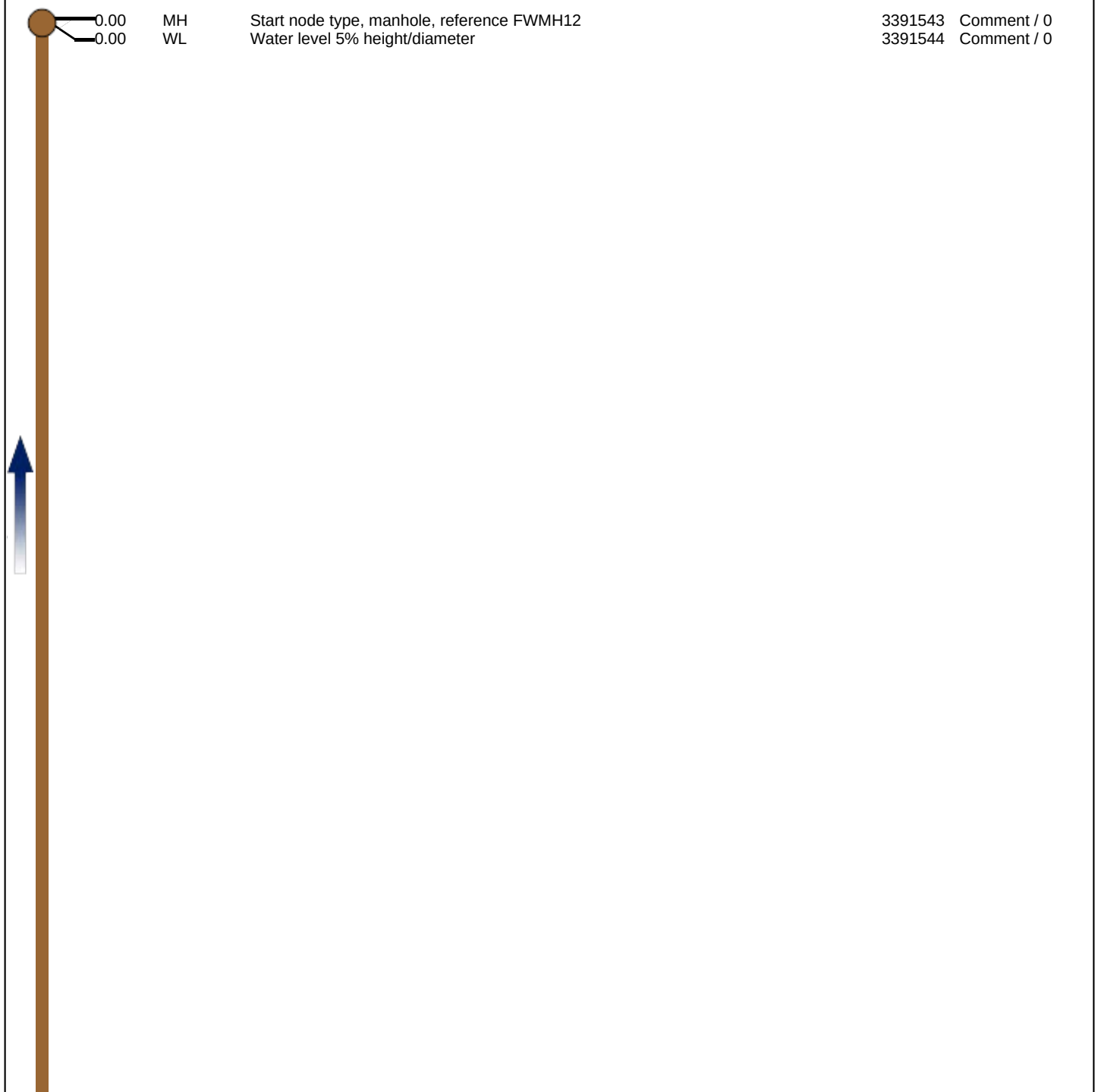
Crack circumferential from 1 to 11 o'clock



Cracks multiple from 9 to 5 o'clock

|                                                                                |                                                                       |                                               |                                                                                   |                                                        |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                           | Pipe Length Reference(PLR)<br><b>FWMH13 X</b> | Date<br><b>14/06/2019</b>                                                         | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                      | Service Grade/Structural Grade<br><b>0/0</b>  | Base Unit<br><b>DDFRT6A12S</b>                                                    | Section Number<br><b>17</b>                            |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                       | Division<br>District<br>Location Details      |                                                                                   |                                                        |
| Purpose<br>Duty <b>Foul</b><br>Catchment                                       | Shape/Size <b>100mm</b><br>Material <b>Vitrified clay</b><br>Category |                                               | Start MH <b>FWMH12</b><br>End MH <b>FWMH13</b><br>Total length <b>6.36 metres</b> |                                                        |
| Scale <b>1:0.31</b><br>Direction <b>Upstream</b>                               |                                                                       |                                               |                                                                                   |                                                        |

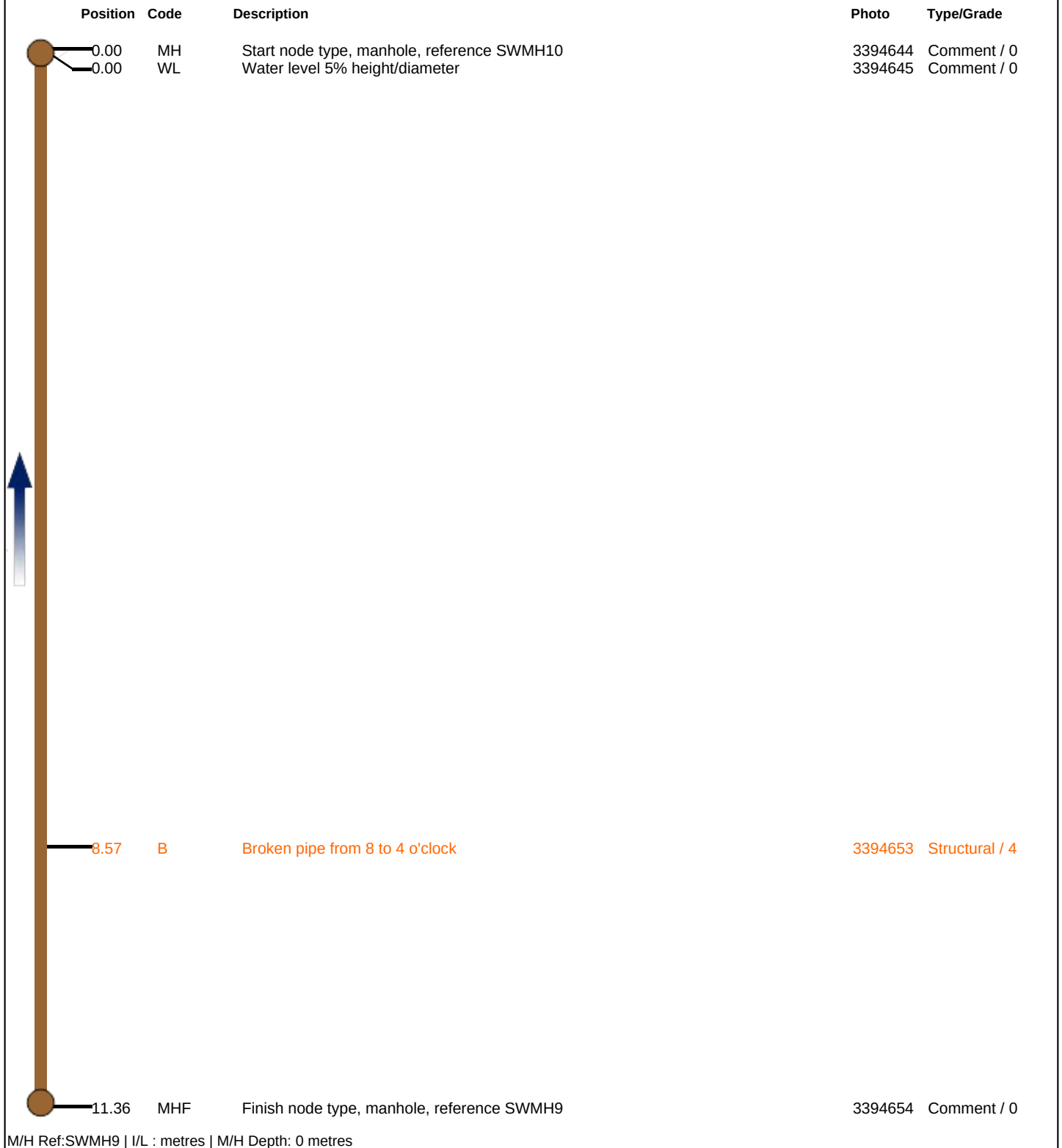
M/H Ref:FWMH12 | I/L : metres | M/H Depth: 840 metres

| Position                                                                           | Code | Description                                 | Photo   | Type/Grade  |
|------------------------------------------------------------------------------------|------|---------------------------------------------|---------|-------------|
| 0.00                                                                               | MH   | Start node type, manhole, reference FWMH12  | 3391543 | Comment / 0 |
| 0.00                                                                               | WL   | Water level 5% height/diameter              | 3391544 | Comment / 0 |
|  |      |                                             |         |             |
| 6.36                                                                               | MHF  | Finish node type, manhole, reference FWMH13 | 3391545 | Comment / 0 |

M/H Ref:FWMH13 | I/L : metres | M/H Depth: 750 metres

|                                                                                |                                                                       |                                              |                                                                                   |                                                        |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                           | Pipe Length Reference(PLR)<br><b>SWMH9 X</b> | Date<br><b>17/06/2019</b>                                                         | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                      | Service Grade/Structural Grade<br><b>0/4</b> | Base Unit<br><b>DDFRT6A12S</b>                                                    | Section Number<br><b>18</b>                            |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                       | Division<br>District<br>Location Details     |                                                                                   |                                                        |
| Purpose<br>Duty <b>Surface water</b><br>Catchment                              | Shape/Size <b>150mm</b><br>Material <b>Vitrified clay</b><br>Category |                                              | Start MH <b>SWMH10</b><br>End MH <b>SWMH9</b><br>Total length <b>11.36 metres</b> |                                                        |
| Scale <b>1:0.58</b><br>Direction <b>Upstream</b>                               |                                                                       |                                              |                                                                                   |                                                        |

M/H Ref: SWMH10 | I/L : metres | M/H Depth: 640 metres

| Position                                                                           | Code | Description                                | Photo   | Type/Grade     |
|------------------------------------------------------------------------------------|------|--------------------------------------------|---------|----------------|
| 0.00                                                                               | MH   | Start node type, manhole, reference SWMH10 | 3394644 | Comment / 0    |
| 0.00                                                                               | WL   | Water level 5% height/diameter             | 3394645 | Comment / 0    |
|  |      |                                            |         |                |
| 8.57                                                                               | B    | Broken pipe from 8 to 4 o'clock            | 3394653 | Structural / 4 |
| 11.36                                                                              | MHF  | Finish node type, manhole, reference SWMH9 | 3394654 | Comment / 0    |

M/H Ref: SWMH9 | I/L : metres | M/H Depth: 0 metres

Job Number  
**780878**

Surveyed by (Operator)  
**PAUL BAYNHAM**

Base Unit  
**DDFRT6A12S**

Date  
**17/06/2019**



Broken pipe from 8 to 4 o'clock

|                                                                                |                                                                       |                                               |                                                                                    |                                                        |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                           | Pipe Length Reference(PLR)<br><b>SWMH10 X</b> | Date<br><b>17/06/2019</b>                                                          | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                      | Service Grade/Structural Grade<br><b>0/0</b>  | Base Unit<br><b>DDFRT6A12S</b>                                                     | Section Number<br><b>19</b>                            |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                       | Division<br>District<br>Location Details      |                                                                                    |                                                        |
| Purpose<br>Duty <b>Surface water</b><br>Catchment                              | Shape/Size <b>150mm</b><br>Material <b>Vitrified clay</b><br>Category |                                               | Start MH <b>SWMH10</b><br>End MH <b>SWMH11</b><br>Total length <b>26.41 metres</b> |                                                        |
| Scale <b>1:1.36</b><br>Direction <b>Downstream</b>                             |                                                                       |                                               |                                                                                    |                                                        |

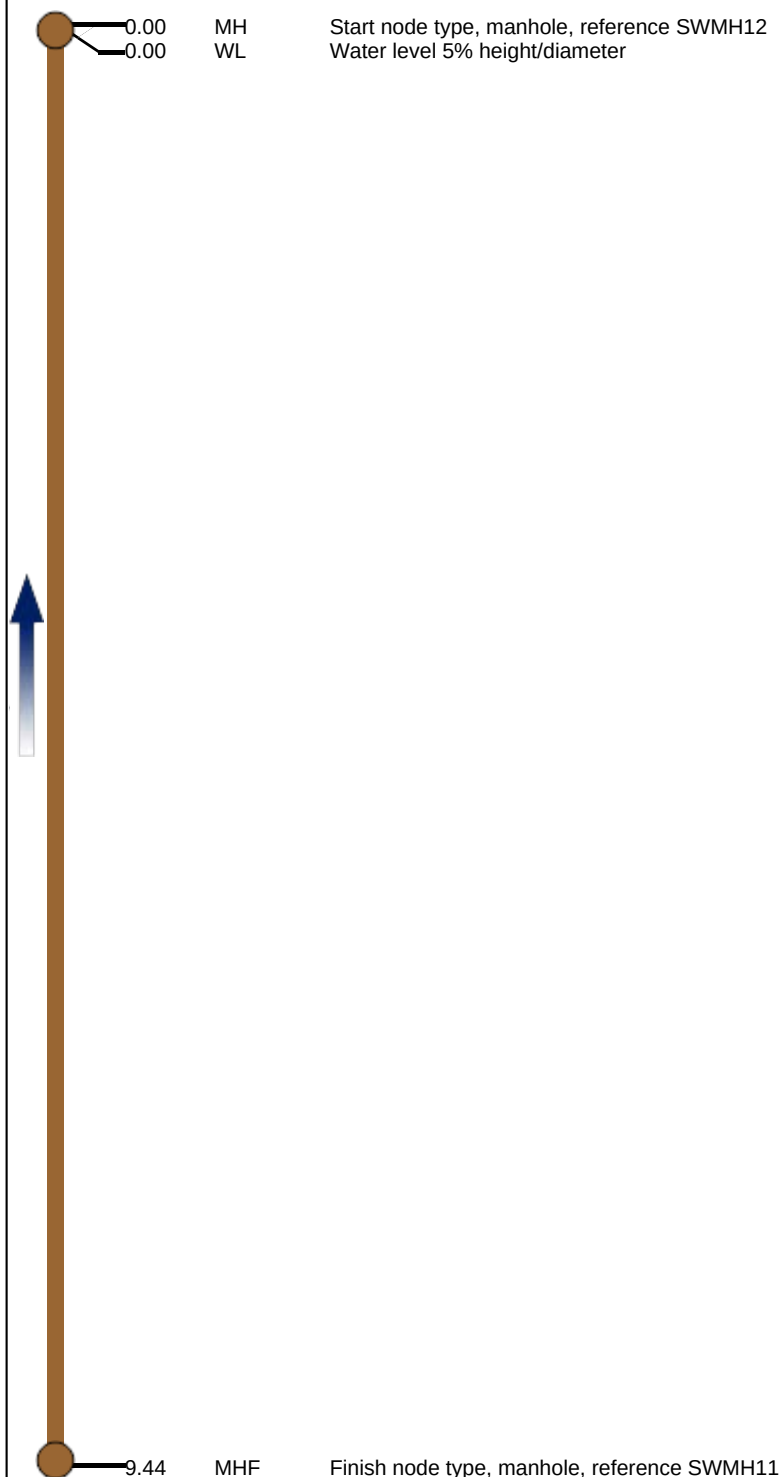
M/H Ref: SWMH10 | I/L : metres | M/H Depth: 640 metres

| Position | Code | Description                                 | Photo   | Type/Grade  |
|----------|------|---------------------------------------------|---------|-------------|
| 0.00     | MH   | Start node type, manhole, reference SWMH10  | 3394667 | Comment / 0 |
| 0.00     | WL   | Water level 5% height/diameter              | 3394668 | Comment / 0 |
| 9.08     | JN   | Junction at 10 o'clock, diameter 100mm      | 3394669 | Comment / 0 |
| 9.44     | JN   | Junction at 10 o'clock, diameter 100mm      | 3394670 | Comment / 0 |
| 26.41    | MHF  | Finish node type, manhole, reference SWMH11 | 3394694 | Comment / 0 |

M/H Ref: SWMH11 | I/L : metres | M/H Depth: 0 metres

|                                                                                |                                                                       |                                               |                                                                                   |                                                        |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                           | Pipe Length Reference(PLR)<br><b>SWMH11 X</b> | Date<br><b>17/06/2019</b>                                                         | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                      | Service Grade/Structural Grade<br><b>0/0</b>  | Base Unit<br><b>DDFRT6A12S</b>                                                    | Section Number<br><b>20</b>                            |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                       | Division<br>District<br>Location Details      |                                                                                   |                                                        |
| Purpose<br>Duty <b>Surface water</b><br>Catchment                              | Shape/Size <b>150mm</b><br>Material <b>Vitrified clay</b><br>Category |                                               | Start MH <b>SWMH12</b><br>End MH <b>SWMH11</b><br>Total length <b>9.44 metres</b> |                                                        |
| Scale <b>1:0.47</b><br>Direction <b>Upstream</b>                               |                                                                       |                                               |                                                                                   |                                                        |

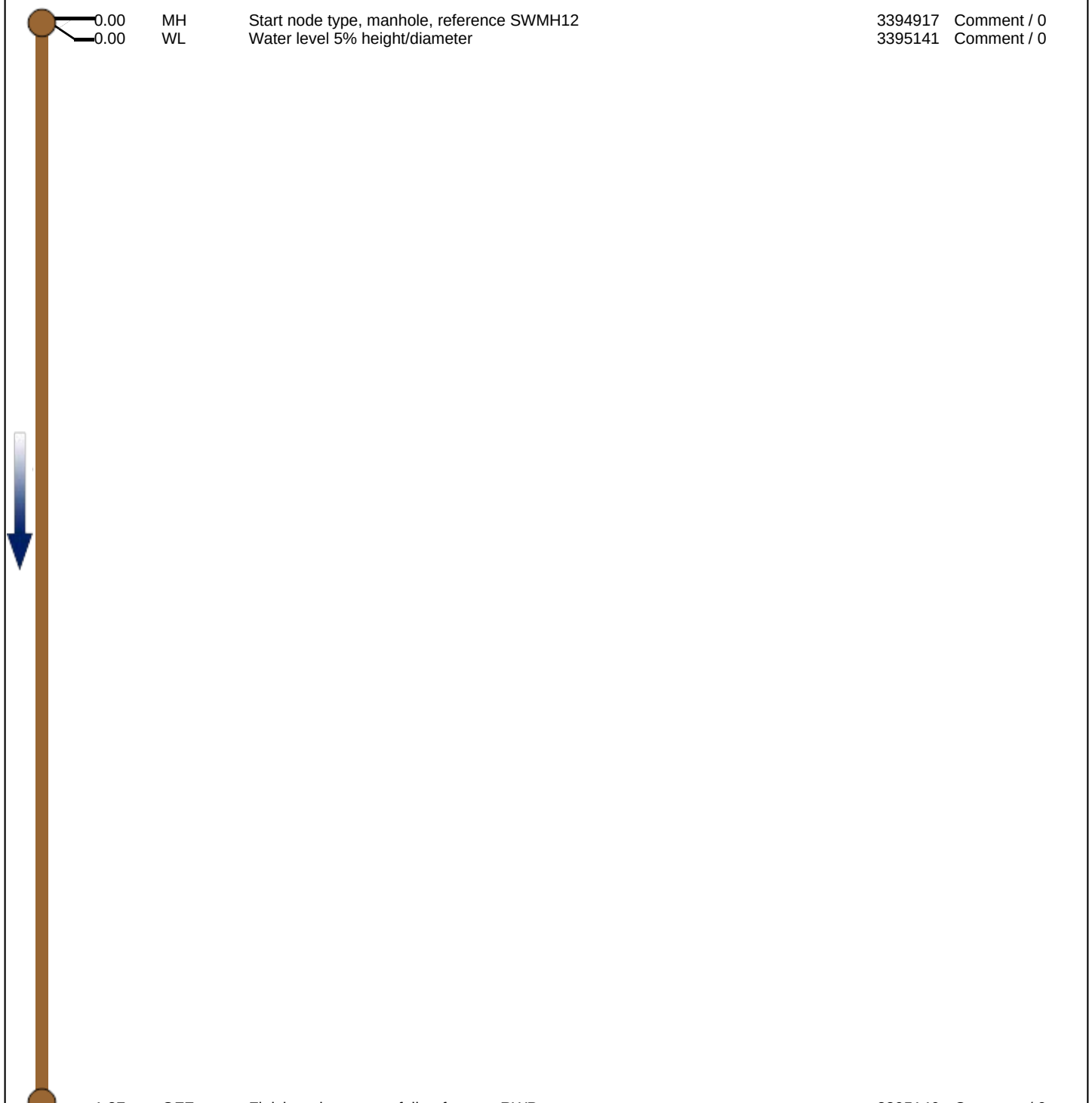
M/H Ref: SWMH12 | I/L : metres | M/H Depth: 1320 metres

| Position                                                                          | Code | Description                                 | Photo   | Type/Grade  |
|-----------------------------------------------------------------------------------|------|---------------------------------------------|---------|-------------|
| 0.00                                                                              | MH   | Start node type, manhole, reference SWMH12  | 3394840 | Comment / 0 |
| 0.00                                                                              | WL   | Water level 5% height/diameter              | 3394842 | Comment / 0 |
|  |      |                                             |         |             |
| 9.44                                                                              | MHF  | Finish node type, manhole, reference SWMH11 | 3394848 | Comment / 0 |

M/H Ref: SWMH11 | I/L : metres | M/H Depth: 0 metres

|                                                                                |                                                                       |                                               |                                                                                |                                                        |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                           | Pipe Length Reference(PLR)<br><b>SWMH12 X</b> | Date<br><b>17/06/2019</b>                                                      | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                      | Service Grade/Structural Grade<br><b>0/0</b>  | Base Unit<br><b>DDFRT6A12S</b>                                                 | Section Number<br><b>21</b>                            |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                       | Division<br>District<br>Location Details      |                                                                                |                                                        |
| Purpose<br>Duty <b>Surface water</b><br>Catchment                              | Shape/Size <b>150mm</b><br>Material <b>Vitrified clay</b><br>Category |                                               | Start MH <b>SWMH12</b><br>End MH <b>RWP</b><br>Total length <b>1.87 metres</b> |                                                        |
| Scale <b>1:0.05</b><br>Direction <b>Downstream</b>                             |                                                                       |                                               |                                                                                |                                                        |

M/H Ref: SWMH12 | I/L : metres | M/H Depth: 1320 metres

| Position                                                                           | Code | Description                                | Photo   | Type/Grade  |
|------------------------------------------------------------------------------------|------|--------------------------------------------|---------|-------------|
| 0.00                                                                               | MH   | Start node type, manhole, reference SWMH12 | 3394917 | Comment / 0 |
| 0.00                                                                               | WL   | Water level 5% height/diameter             | 3395141 | Comment / 0 |
|  |      |                                            |         |             |
| 1.87                                                                               | OFF  | Finish node type, outfall, reference RWP   | 3395146 | Comment / 0 |

M/H Ref: RWP | I/L : metres | M/H Depth: 0 metres

|                                                                                |                                                                       |                                               |                                                                                    |                                                        |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                           | Pipe Length Reference(PLR)<br><b>SWMH15 X</b> | Date<br><b>17/06/2019</b>                                                          | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                      | Service Grade/Structural Grade<br><b>0/0</b>  | Base Unit<br><b>DDFRT6A12S</b>                                                     | Section Number<br><b>22</b>                            |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                       | Division<br>District<br>Location Details      |                                                                                    |                                                        |
| Purpose<br>Duty <b>Surface water</b><br>Catchment                              | Shape/Size <b>225mm</b><br>Material <b>Vitrified clay</b><br>Category |                                               | Start MH <b>SWMH14</b><br>End MH <b>SWMH15</b><br>Total length <b>20.52 metres</b> |                                                        |
| Scale <b>1:1.05</b><br>Direction <b>Upstream</b>                               |                                                                       |                                               |                                                                                    |                                                        |

M/H Ref: SWMH14 | I/L : metres | M/H Depth: 2360 metres

| Position                                                                           | Code | Description                                 | Photo   | Type/Grade  |
|------------------------------------------------------------------------------------|------|---------------------------------------------|---------|-------------|
| 0.00                                                                               | MH   | Start node type, manhole, reference SWMH14  | 3395219 | Comment / 0 |
| 0.00                                                                               | WL   | Water level 5% height/diameter              | 3395220 | Comment / 0 |
|  |      |                                             |         |             |
| 20.52                                                                              | MHF  | Finish node type, manhole, reference SWMH15 | 3395222 | Comment / 0 |

M/H Ref: SWMH15 | I/L : metres | M/H Depth: 0 metres

|                                                                                |                                                                       |                                               |                                                                                    |                                                        |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                           | Pipe Length Reference(PLR)<br><b>SWMH14 X</b> | Date<br><b>17/06/2019</b>                                                          | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                      | Service Grade/Structural Grade<br><b>0/0</b>  | Base Unit<br><b>DDFRT6A12S</b>                                                     | Section Number<br><b>23</b>                            |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                       | Division<br>District<br>Location Details      |                                                                                    |                                                        |
| Purpose<br>Duty <b>Surface water</b><br>Catchment                              | Shape/Size <b>225mm</b><br>Material <b>Vitrified clay</b><br>Category |                                               | Start MH <b>SWMH14</b><br>End MH <b>SWMH16</b><br>Total length <b>32.75 metres</b> |                                                        |
| Scale <b>1:1.68</b><br>Direction <b>Downstream</b>                             |                                                                       |                                               |                                                                                    |                                                        |

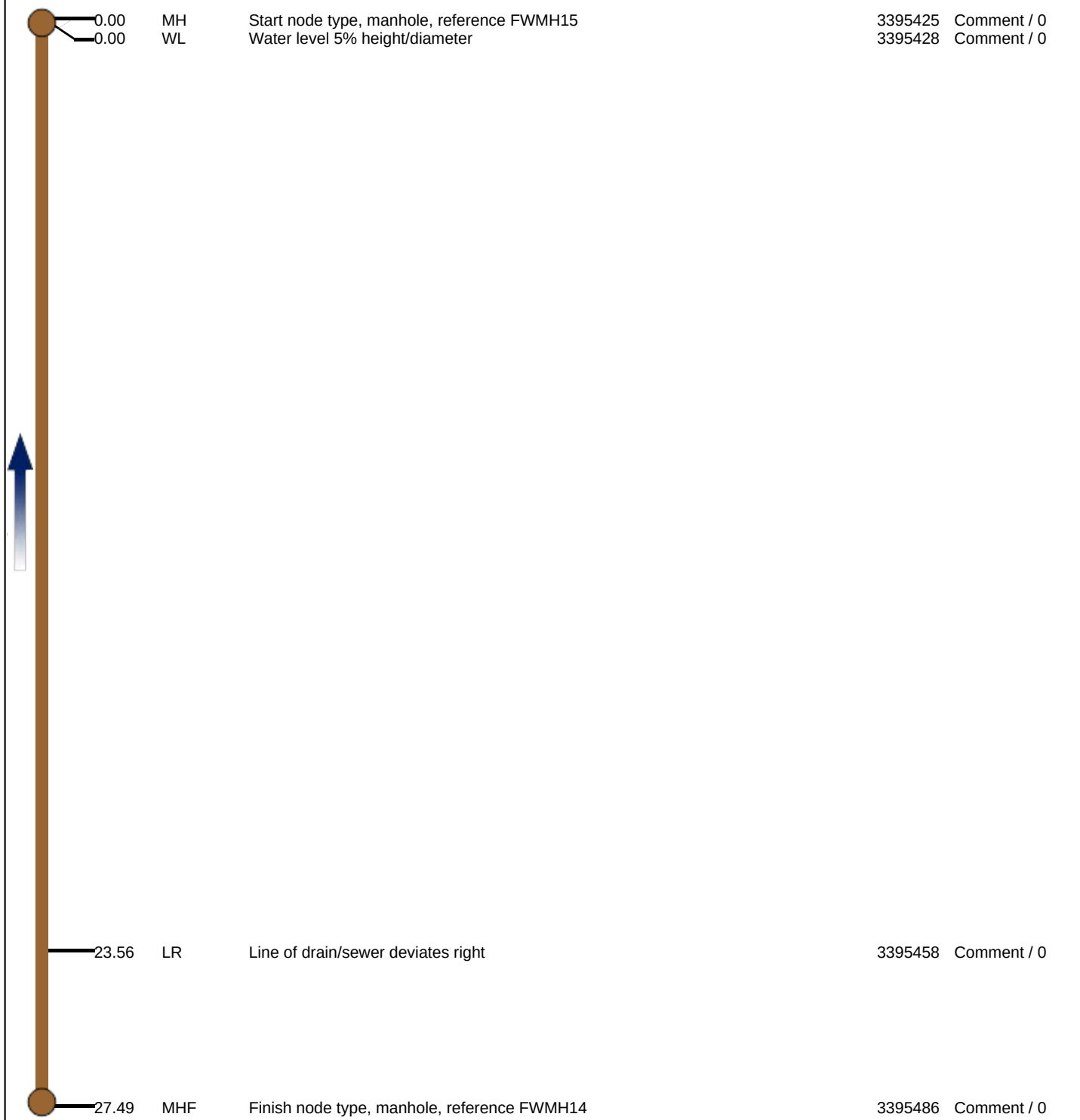
M/H Ref: SWMH14 | I/L : metres | M/H Depth: 2360 metres

| Position | Code | Description                                 | Photo   | Type/Grade  |
|----------|------|---------------------------------------------|---------|-------------|
| 0.00     | MH   | Start node type, manhole, reference SWMH14  | 3395247 | Comment / 0 |
| 0.00     | WL   | Water level 5% height/diameter              | 3395248 | Comment / 0 |
| 1.49     | LL   | Line of drain/sewer deviates left           | 3395252 | Comment / 0 |
| 2.77     | JN   | Junction at 11 o'clock, diameter 100mm      | 3395253 | Comment / 0 |
| 8.46     | JN   | Junction at 9 o'clock, diameter 100mm       | 3395257 | Comment / 0 |
| 28.51    | JN   | Junction at 3 o'clock, diameter 100mm       | 3395269 | Comment / 0 |
| 32.75    | MHF  | Finish node type, manhole, reference SWMH16 | 3395270 | Comment / 0 |

M/H Ref: SWMH16 | I/L : metres | M/H Depth: 0 metres

|                                                                                |                                                                  |                                               |                                                                                    |                                                        |
|--------------------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                      | Pipe Length Reference(PLR)<br><b>FWMH14 X</b> | Date<br><b>17/06/2019</b>                                                          | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                 | Service Grade/Structural Grade<br><b>0/0</b>  | Base Unit<br><b>DDFRT6A12S</b>                                                     | Section Number<br><b>24</b>                            |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                  | Division<br>District<br>Location Details      |                                                                                    |                                                        |
| Purpose<br>Duty <b>Foul</b><br>Catchment                                       | Shape/Size <b>100mm</b><br>Material <b>Cast iron</b><br>Category |                                               | Start MH <b>FWMH15</b><br>End MH <b>FWMH14</b><br>Total length <b>27.49 metres</b> |                                                        |
| Scale <b>1:1.42</b><br>Direction <b>Upstream</b>                               |                                                                  |                                               |                                                                                    |                                                        |

M/H Ref:FWMH15 | I/L : metres | M/H Depth: 1050 metres

| Position                                                                           | Code | Description                                 | Photo   | Type/Grade  |
|------------------------------------------------------------------------------------|------|---------------------------------------------|---------|-------------|
| 0.00                                                                               | MH   | Start node type, manhole, reference FWMH15  | 3395425 | Comment / 0 |
| 0.00                                                                               | WL   | Water level 5% height/diameter              | 3395428 | Comment / 0 |
|  |      |                                             |         |             |
| 23.56                                                                              | LR   | Line of drain/sewer deviates right          | 3395458 | Comment / 0 |
| 27.49                                                                              | MHF  | Finish node type, manhole, reference FWMH14 | 3395486 | Comment / 0 |

M/H Ref:FWMH14 | I/L : metres | M/H Depth: 780 metres

|                                                                                |                                                                  |                                               |                                                                                   |                                                        |
|--------------------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                      | Pipe Length Reference(PLR)<br><b>FWMH15 X</b> | Date<br><b>17/06/2019</b>                                                         | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                 | Service Grade/Structural Grade<br><b>0/0</b>  | Base Unit<br><b>DDFRT6A12S</b>                                                    | Section Number<br><b>25</b>                            |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                  | Division<br>District<br>Location Details      |                                                                                   |                                                        |
| Purpose<br>Duty <b>Foul</b><br>Catchment                                       | Shape/Size <b>100mm</b><br>Material <b>Cast iron</b><br>Category |                                               | Start MH <b>FWMH15</b><br>End MH <b>FWMH3</b><br>Total length <b>36.31 metres</b> |                                                        |
| Scale <b>1:1.89</b><br>Direction <b>Downstream</b>                             |                                                                  |                                               |                                                                                   |                                                        |

M/H Ref:FWMH15 | I/L : metres | M/H Depth: 1050 metres

| Position | Code | Description                                | Photo   | Type/Grade  |
|----------|------|--------------------------------------------|---------|-------------|
| 0.00     | MH   | Start node type, manhole, reference FWMH15 | 3395685 | Comment / 0 |
| 0.00     | WL   | Water level 5% height/diameter             | 3395686 | Comment / 0 |
| 2.56     | LL   | Line of drain/sewer deviates left          | 3395687 | Comment / 0 |
| 3.63     | REM  | JOINING ANOTHER PIPE                       | 3395688 | Comment / 0 |
| 3.95     | LR   | Line of drain/sewer deviates right         | 3395689 | Comment / 0 |
| 36.31    | MHF  | Finish node type, manhole, reference FWMH3 | 3395726 | Comment / 0 |

M/H Ref:FWMH3 | I/L : metres | M/H Depth: 1150 metres

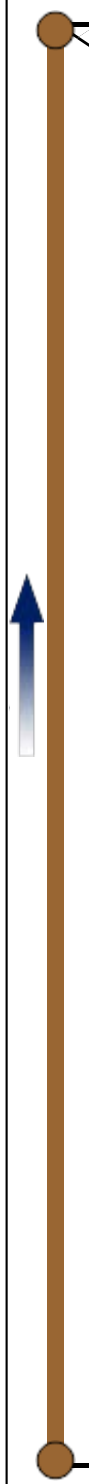
|                             |                                               |                                |                           |
|-----------------------------|-----------------------------------------------|--------------------------------|---------------------------|
| Job Number<br><b>780878</b> | Surveyed by (Operator)<br><b>PAUL BAYNHAM</b> | Base Unit<br><b>DDFRT6A12S</b> | Date<br><b>17/06/2019</b> |
|-----------------------------|-----------------------------------------------|--------------------------------|---------------------------|



JOINING ANOTHER PIPE

|                                                                                |                                                                           |                                               |                                                                                   |                                                        |
|--------------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                               | Pipe Length Reference(PLR)<br><b>FWMH22 X</b> | Date<br><b>17/06/2019</b>                                                         | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                          | Service Grade/Structural Grade<br><b>0/0</b>  | Base Unit<br><b>DDFRT6A12S</b>                                                    | Section Number<br><b>26</b>                            |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                           | Division<br>District<br>Location Details      |                                                                                   |                                                        |
| Purpose<br>Duty <b>Foul</b><br>Catchment                                       | Shape/Size <b>100mm</b><br>Material <b>Polyvinyl chloride</b><br>Category |                                               | Start MH <b>FWMH21</b><br>End MH <b>FWMH22</b><br>Total length <b>4.95 metres</b> |                                                        |
| Scale <b>1:0.21</b><br>Direction <b>Upstream</b>                               |                                                                           |                                               |                                                                                   |                                                        |

M/H Ref:FWMH21 | I/L : metres | M/H Depth: 850 metres

| Position                                                                          | Code | Description                                 | Photo   | Type/Grade  |
|-----------------------------------------------------------------------------------|------|---------------------------------------------|---------|-------------|
| 0.00                                                                              | MH   | Start node type, manhole, reference FWMH21  | 3395852 | Comment / 0 |
| 0.00                                                                              | WL   | Water level 5% height/diameter              | 3395853 | Comment / 0 |
|  |      |                                             |         |             |
| 4.95                                                                              | MHF  | Finish node type, manhole, reference FWMH22 | 3395856 | Comment / 0 |

M/H Ref:FWMH22 | I/L : metres | M/H Depth: 740 metres

|                                                                                |                                                              |                                               |                                                                                    |                                                        |
|--------------------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                  | Pipe Length Reference(PLR)<br><b>FWMH21 X</b> | Date<br><b>17/06/2019</b>                                                          | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                             | Service Grade/Structural Grade<br><b>0/0</b>  | Base Unit<br><b>DDFRT6A12S</b>                                                     | Section Number<br><b>27</b>                            |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                              | Division<br>District<br>Location Details      |                                                                                    |                                                        |
| Purpose<br>Duty <b>Foul</b><br>Catchment                                       | Shape/Size <b>100mm</b><br>Material <b>Liner</b><br>Category |                                               | Start MH <b>FWMH21</b><br>End MH <b>FWMH20</b><br>Total length <b>18.81 metres</b> |                                                        |
| Scale <b>1:0.94</b><br>Direction <b>Downstream</b>                             |                                                              |                                               |                                                                                    |                                                        |

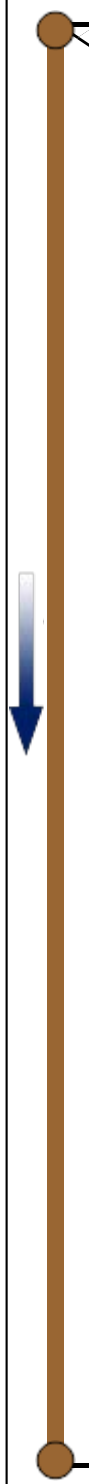
M/H Ref:FWMH21 | I/L : metres | M/H Depth: 850 metres

| Position                                                                          | Code | Description                                 | Photo   | Type/Grade  |
|-----------------------------------------------------------------------------------|------|---------------------------------------------|---------|-------------|
| 0.00                                                                              | MH   | Start node type, manhole, reference FWMH21  | 3395877 | Comment / 0 |
| 0.00                                                                              | WL   | Water level 5% height/diameter              | 3395879 | Comment / 0 |
|  |      |                                             |         |             |
| 18.81                                                                             | MHF  | Finish node type, manhole, reference FWMH20 | 3395882 | Comment / 0 |

M/H Ref:FWMH20 | I/L : metres | M/H Depth: 1170 metres

|                                                                                |                                                                           |                                               |                                                                                   |                                                        |
|--------------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                               | Pipe Length Reference(PLR)<br><b>SWMH17 X</b> | Date<br><b>17/06/2019</b>                                                         | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                          | Service Grade/Structural Grade<br><b>0/0</b>  | Base Unit<br><b>DDFRT6A12S</b>                                                    | Section Number<br><b>28</b>                            |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                           | Division<br>District<br>Location Details      |                                                                                   |                                                        |
| Purpose<br>Duty <b>Surface water</b><br>Catchment                              | Shape/Size <b>100mm</b><br>Material <b>Polyvinyl chloride</b><br>Category |                                               | Start MH <b>SWMH17</b><br>End MH <b>SWMH6</b><br>Total length <b>12.69 metres</b> |                                                        |
| Scale <b>1:0.63</b><br>Direction <b>Downstream</b>                             |                                                                           |                                               |                                                                                   |                                                        |

M/H Ref: SWMH17 | I/L : metres | M/H Depth: 1100 metres

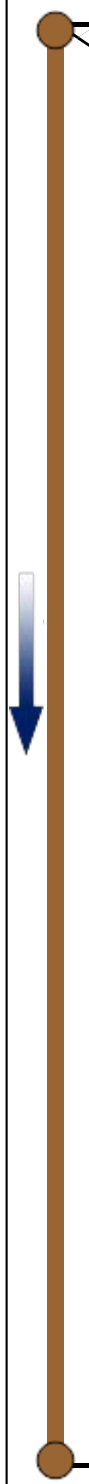
| Position                                                                          | Code | Description                                | Photo   | Type/Grade  |
|-----------------------------------------------------------------------------------|------|--------------------------------------------|---------|-------------|
| 0.00                                                                              | MH   | Start node type, manhole, reference SWMH17 | 3395911 | Comment / 0 |
| 0.00                                                                              | WL   | Water level 5% height/diameter             | 3395912 | Comment / 0 |
|  |      |                                            |         |             |
| 12.69                                                                             | MHF  | Finish node type, manhole, reference SWMH6 | 3395913 | Comment / 0 |

M/H Ref: SWMH6 | I/L : metres | M/H Depth: 0 metres



|                                                                                |                                                                       |                                              |                                                                                 |                                                        |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                           | Pipe Length Reference(PLR)<br><b>SWMH7 X</b> | Date<br><b>18/06/2019</b>                                                       | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                      | Service Grade/Structural Grade<br><b>0/0</b> | Base Unit<br><b>DDFRT6A12S</b>                                                  | Section Number<br><b>30</b>                            |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                       | Division<br>District<br>Location Details     |                                                                                 |                                                        |
| Purpose<br>Duty <b>Surface water</b><br>Catchment                              | Shape/Size <b>300mm</b><br>Material <b>Vitrified clay</b><br>Category |                                              | Start MH <b>SWMH7</b><br>End MH <b>SWMH8</b><br>Total length <b>8.95 metres</b> |                                                        |
| Scale <b>1:0.42</b><br>Direction <b>Downstream</b>                             |                                                                       |                                              |                                                                                 |                                                        |

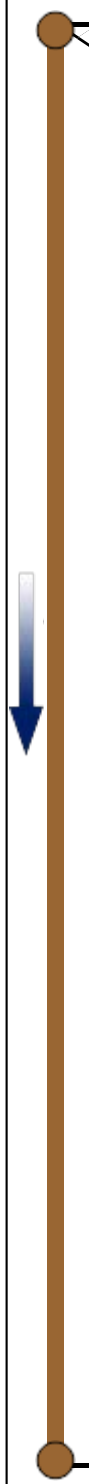
M/H Ref:SWMH7 | I/L : metres | M/H Depth: 2490 metres

| Position                                                                          | Code | Description                                | Photo   | Type/Grade  |
|-----------------------------------------------------------------------------------|------|--------------------------------------------|---------|-------------|
| 0.00                                                                              | MH   | Start node type, manhole, reference SWMH7  | 3397159 | Comment / 0 |
| 0.00                                                                              | WL   | Water level 5% height/diameter             | 3397161 | Comment / 0 |
|  |      |                                            |         |             |
| 8.95                                                                              | MHF  | Finish node type, manhole, reference SWMH8 | 3397163 | Comment / 0 |

M/H Ref:SWMH8 | I/L : metres | M/H Depth: 0 metres

|                                                                                |                                                                       |                                              |                                                                                   |                                                        |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                           | Pipe Length Reference(PLR)<br><b>SWMH8 X</b> | Date<br><b>18/06/2019</b>                                                         | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                      | Service Grade/Structural Grade<br><b>0/0</b> | Base Unit<br><b>DDFRT6A12S</b>                                                    | Section Number<br><b>31</b>                            |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                       | Division<br>District<br>Location Details     |                                                                                   |                                                        |
| Purpose<br>Duty <b>Surface water</b><br>Catchment                              | Shape/Size <b>300mm</b><br>Material <b>Vitrified clay</b><br>Category |                                              | Start MH <b>SWMH8</b><br>End MH <b>SWMH18</b><br>Total length <b>26.43 metres</b> |                                                        |
| Scale <b>1:1.36</b><br>Direction <b>Downstream</b>                             |                                                                       |                                              |                                                                                   |                                                        |

M/H Ref: SWMH8 | I/L : metres | M/H Depth: 2660 metres

| Position                                                                          | Code | Description                                 | Photo   | Type/Grade  |
|-----------------------------------------------------------------------------------|------|---------------------------------------------|---------|-------------|
| 0.00                                                                              | MH   | Start node type, manhole, reference SWMH8   | 3397174 | Comment / 0 |
| 0.00                                                                              | WL   | Water level 5% height/diameter              | 3397175 | Comment / 0 |
|  |      |                                             |         |             |
| 26.43                                                                             | MHF  | Finish node type, manhole, reference SWMH18 | 3397211 | Comment / 0 |

M/H Ref: SWMH18 | I/L : metres | M/H Depth: 0 metres

|                                                                                |                                                                       |                                               |                                                                                    |                                                        |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                           | Pipe Length Reference(PLR)<br><b>SWMH18 X</b> | Date<br><b>18/06/2019</b>                                                          | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                      | Service Grade/Structural Grade<br><b>0/0</b>  | Base Unit<br><b>DDFRT6A12S</b>                                                     | Section Number<br><b>32</b>                            |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                       | Division<br>District<br>Location Details      |                                                                                    |                                                        |
| Purpose<br>Duty <b>Surface water</b><br>Catchment                              | Shape/Size <b>300mm</b><br>Material <b>Vitrified clay</b><br>Category |                                               | Start MH <b>SWMH18</b><br>End MH <b>SWMH19</b><br>Total length <b>28.02 metres</b> |                                                        |
| Scale <b>1:1.47</b><br>Direction <b>Downstream</b>                             |                                                                       |                                               |                                                                                    |                                                        |

M/H Ref: SWMH18 | I/L : metres | M/H Depth: 2700 metres

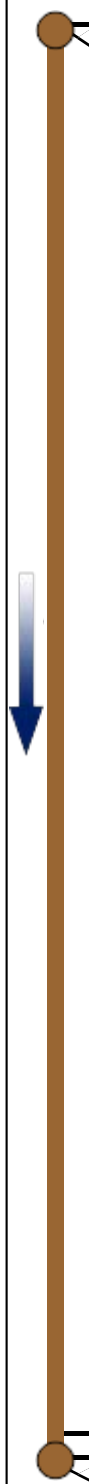
| Position | Code | Description                                 | Photo   | Type/Grade  |
|----------|------|---------------------------------------------|---------|-------------|
| 0.00     | MH   | Start node type, manhole, reference SWMH18  | 3397606 | Comment / 0 |
| 0.00     | WL   | Water level 5% height/diameter              | 3397609 | Comment / 0 |
| 7.51     | REM  | HIDDEN MANHOLE UNDER GRAVEL ACCESS ROAD     | 3397613 | Comment / 0 |
| 28.02    | REM  | NOW AT BACK DROP INTO SWMH19                | 3397627 | Comment / 0 |
| 28.02    | MHF  | Finish node type, manhole, reference SWMH19 | 3397697 | Comment / 0 |

M/H Ref: SWMH19 | I/L : metres | M/H Depth: 0 metres

| Job Number<br><b>780878</b>                                                                                                                                                                  | Surveyed by (Operator)<br><b>PAUL BAYNHAM</b> | Base Unit<br><b>DDFRT6A12S</b>                                                                                                                                                       | Date<br><b>18/06/2019</b> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| <p>From: SWMH18 / To: SWMH19<br/>Size: 300</p>  <p>7.51 M</p> <p>HIDDEN MANHOLE UNDER GRAVEL ACCESS ROAD</p> |                                               | <p>From: SWMH18 / To: SWMH19<br/>Size: 300</p>  <p>28.02 M</p> <p>NOW AT BACK DROP INTO SWMH19</p> |                           |

|                                                                                |                                                                       |                                               |                                                                                  |                                                        |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                           | Pipe Length Reference(PLR)<br><b>SWMH19 X</b> | Date<br><b>18/06/2019</b>                                                        | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                      | Service Grade/Structural Grade<br><b>0/0</b>  | Base Unit<br><b>DDFRT6A12S</b>                                                   | Section Number<br><b>33</b>                            |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                       | Division<br>District<br>Location Details      |                                                                                  |                                                        |
| Purpose<br>Duty <b>Surface water</b><br>Catchment                              | Shape/Size <b>300mm</b><br>Material <b>Vitrified clay</b><br>Category |                                               | Start MH <b>SWMH19</b><br>End MH <b>LAKE</b><br>Total length <b>49.11 metres</b> |                                                        |
| Scale <b>1:2.57</b><br>Direction <b>Downstream</b>                             |                                                                       |                                               |                                                                                  |                                                        |

M/H Ref: SWMH19 | I/L : metres | M/H Depth: 3250 metres

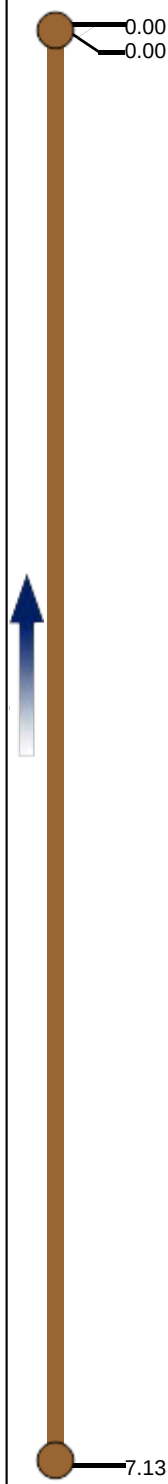
| Position                                                                          | Code | Description                                                   | Photo   | Type/Grade  |
|-----------------------------------------------------------------------------------|------|---------------------------------------------------------------|---------|-------------|
| 0.00                                                                              | MH   | Start node type, manhole, reference SWMH19                    | 3397864 | Comment / 0 |
| 0.00                                                                              | WL   | Water level 5% height/diameter                                | 3397865 | Comment / 0 |
|  |      |                                                               |         |             |
| 48.25                                                                             | REM  | HIDDEN MANHOLE                                                | 3397889 | Comment / 0 |
| 49.11                                                                             | REM  | HIGH WATER LEVELS DUE TO LAKE LEVELS UNABLE TO SURVEY FURTHER | 3397891 | Comment / 0 |
| 49.11                                                                             | OFF  | Finish node type, outfall, reference LAKE                     | 3397893 | Comment / 0 |

M/H Ref: LAKE | I/L : metres | M/H Depth: 0 metres

| Job Number<br><b>780878</b>                                                                                                                                        | Surveyed by (Operator)<br><b>PAUL BAYNHAM</b> | Base Unit<br><b>DDFRT6A12S</b>                                                                                                                                                                                      | Date<br><b>18/06/2019</b> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| <p>From: SWMH19 / To: LAKE<br/>Size: 300</p>  <p>48.25 M</p> <p>HIDDEN MANHOLE</p> |                                               | <p>From: SWMH19 / To: LAKE<br/>Size: 300</p>  <p>49.10 M</p> <p>HIGH WATER LEVELS DUE TO LAKE LEVELS UNABLE TO SURVEY FURTHER</p> |                           |

|                                                                                |                                                                  |                                              |                                                                                 |                                                        |
|--------------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                      | Pipe Length Reference(PLR)<br><b>FWMH6 X</b> | Date<br><b>18/06/2019</b>                                                       | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                 | Service Grade/Structural Grade<br><b>0/0</b> | Base Unit<br><b>DDFRT6A12S</b>                                                  | Section Number<br><b>34</b>                            |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                  | Division<br>District<br>Location Details     |                                                                                 |                                                        |
| Purpose<br>Duty <b>Foul</b><br>Catchment                                       | Shape/Size <b>150mm</b><br>Material <b>Cast iron</b><br>Category |                                              | Start MH <b>FWMH7</b><br>End MH <b>FWMH6</b><br>Total length <b>7.13 metres</b> |                                                        |
| Scale <b>1:0.37</b><br>Direction <b>Upstream</b>                               |                                                                  |                                              |                                                                                 |                                                        |

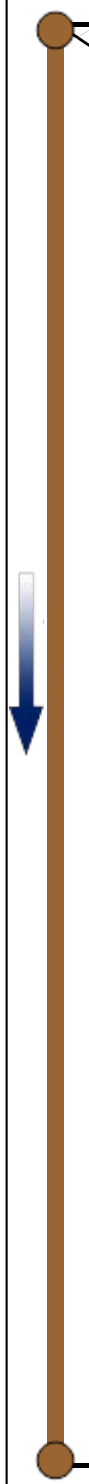
M/H Ref:FWMH7 | I/L : metres | M/H Depth: 1580 metres

| Position                                                                          | Code | Description                                | Photo   | Type/Grade  |
|-----------------------------------------------------------------------------------|------|--------------------------------------------|---------|-------------|
| 0.00                                                                              | MH   | Start node type, manhole, reference FWMH7  | 3398047 | Comment / 0 |
| 0.00                                                                              | WL   | Water level 5% height/diameter             | 3398054 | Comment / 0 |
|  |      |                                            |         |             |
| 7.13                                                                              | MHF  | Finish node type, manhole, reference FWMH6 | 3398065 | Comment / 0 |

M/H Ref:FWMH6 | I/L : metres | M/H Depth: 1560 metres

|                                                                                |                                                                  |                                              |                                                                                 |                                                        |
|--------------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                      | Pipe Length Reference(PLR)<br><b>FWMH7 X</b> | Date<br><b>18/06/2019</b>                                                       | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                 | Service Grade/Structural Grade<br><b>0/0</b> | Base Unit<br><b>DDFRT6A12S</b>                                                  | Section Number<br><b>35</b>                            |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                  | Division<br>District<br>Location Details     |                                                                                 |                                                        |
| Purpose<br>Duty <b>Foul</b><br>Catchment                                       | Shape/Size <b>150mm</b><br>Material <b>Cast iron</b><br>Category |                                              | Start MH <b>FWMH7</b><br>End MH <b>FWMH9</b><br>Total length <b>42.9 metres</b> |                                                        |
| Scale <b>1:2.20</b><br>Direction <b>Downstream</b>                             |                                                                  |                                              |                                                                                 |                                                        |

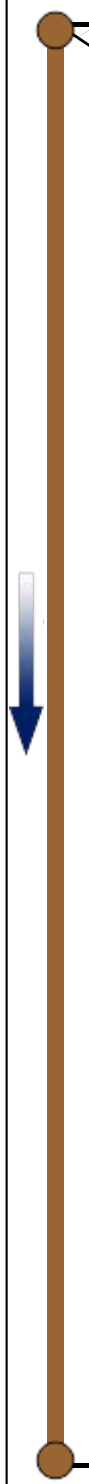
M/H Ref:FWMH7 | I/L : metres | M/H Depth: 1580 metres

| Position                                                                          | Code | Description                                | Photo   | Type/Grade  |
|-----------------------------------------------------------------------------------|------|--------------------------------------------|---------|-------------|
| 0.00                                                                              | MH   | Start node type, manhole, reference FWMH7  | 3398118 | Comment / 0 |
| 0.00                                                                              | WL   | Water level 5% height/diameter             | 3398119 | Comment / 0 |
|  |      |                                            |         |             |
| 42.90                                                                             | MHF  | Finish node type, manhole, reference FWMH9 | 3398175 | Comment / 0 |

M/H Ref:FWMH9 | I/L : metres | M/H Depth: 0 metres

|                                                                                |                                                              |                                              |                                                                                 |                                                        |
|--------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                  | Pipe Length Reference(PLR)<br><b>FWMH8 X</b> | Date<br><b>18/06/2019</b>                                                       | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                             | Service Grade/Structural Grade<br><b>0/0</b> | Base Unit<br><b>DDFRT6A12S</b>                                                  | Section Number<br><b>36</b>                            |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                              | Division<br>District<br>Location Details     |                                                                                 |                                                        |
| Purpose<br>Duty <b>Foul</b><br>Catchment                                       | Shape/Size <b>100mm</b><br>Material <b>Liner</b><br>Category |                                              | Start MH <b>FWMH8</b><br>End MH <b>FWMH7</b><br>Total length <b>6.23 metres</b> |                                                        |
| Scale <b>1:0.31</b><br>Direction <b>Downstream</b>                             |                                                              |                                              |                                                                                 |                                                        |

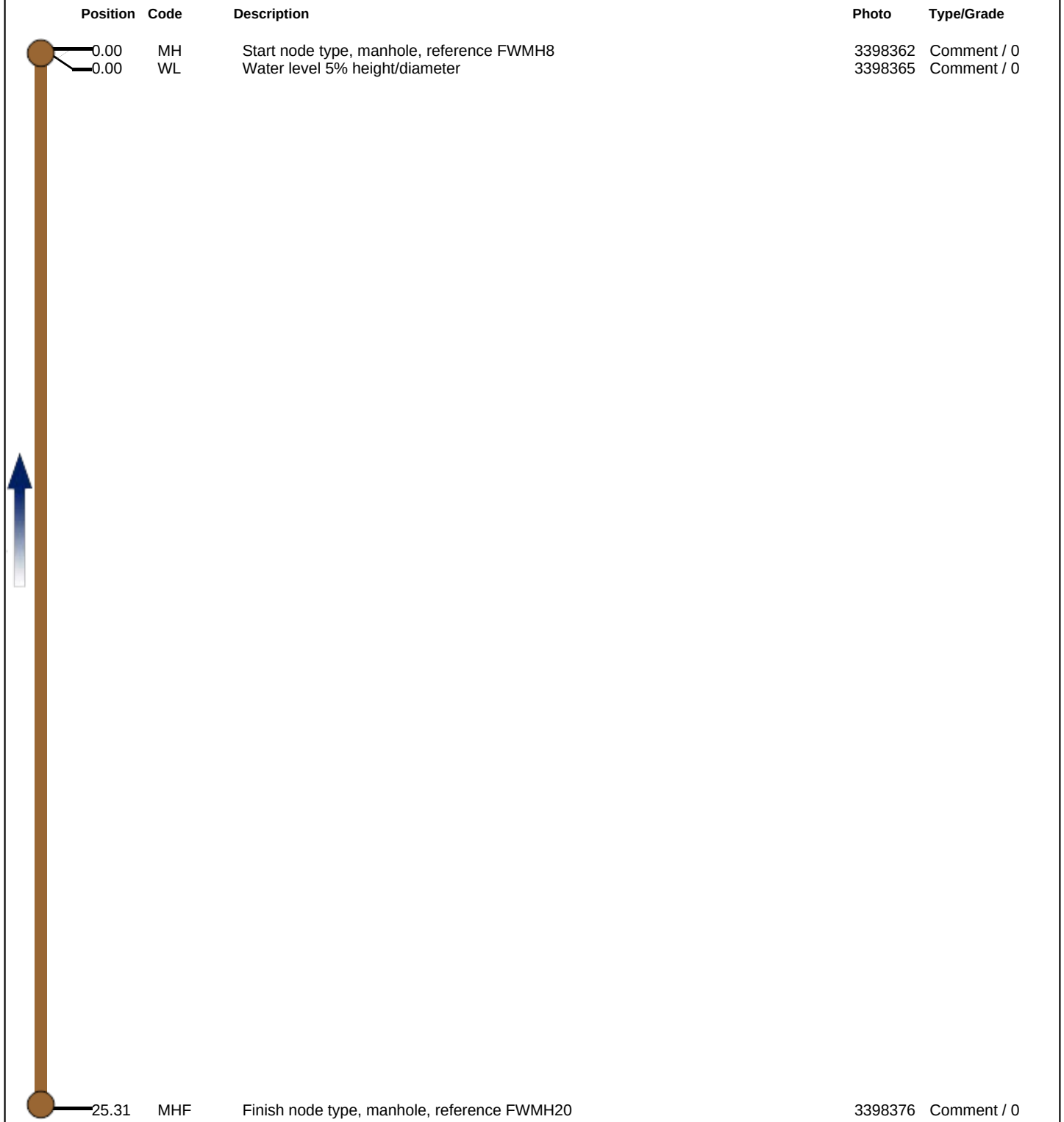
M/H Ref:FWMH8 | I/L : metres | M/H Depth: 1400 metres

| Position                                                                          | Code | Description                                | Photo   | Type/Grade  |
|-----------------------------------------------------------------------------------|------|--------------------------------------------|---------|-------------|
| 0.00                                                                              | MH   | Start node type, manhole, reference FWMH8  | 3398326 | Comment / 0 |
| 0.00                                                                              | WL   | Water level 5% height/diameter             | 3398328 | Comment / 0 |
|  |      |                                            |         |             |
| 6.23                                                                              | MHF  | Finish node type, manhole, reference FWMH7 | 3398359 | Comment / 0 |

M/H Ref:FWMH7 | I/L : metres | M/H Depth: 1580 metres

|                                                                                |                                                              |                                               |                                                                                   |                                                        |
|--------------------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                  | Pipe Length Reference(PLR)<br><b>FWMH20 X</b> | Date<br><b>18/06/2019</b>                                                         | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                             | Service Grade/Structural Grade<br><b>0/0</b>  | Base Unit<br><b>DDFRT6A12S</b>                                                    | Section Number<br><b>37</b>                            |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                              | Division<br>District<br>Location Details      |                                                                                   |                                                        |
| Purpose<br>Duty <b>Foul</b><br>Catchment                                       | Shape/Size <b>100mm</b><br>Material <b>Liner</b><br>Category |                                               | Start MH <b>FWMH8</b><br>End MH <b>FWMH20</b><br>Total length <b>25.31 metres</b> |                                                        |
| Scale <b>1:1.31</b><br>Direction <b>Upstream</b>                               |                                                              |                                               |                                                                                   |                                                        |

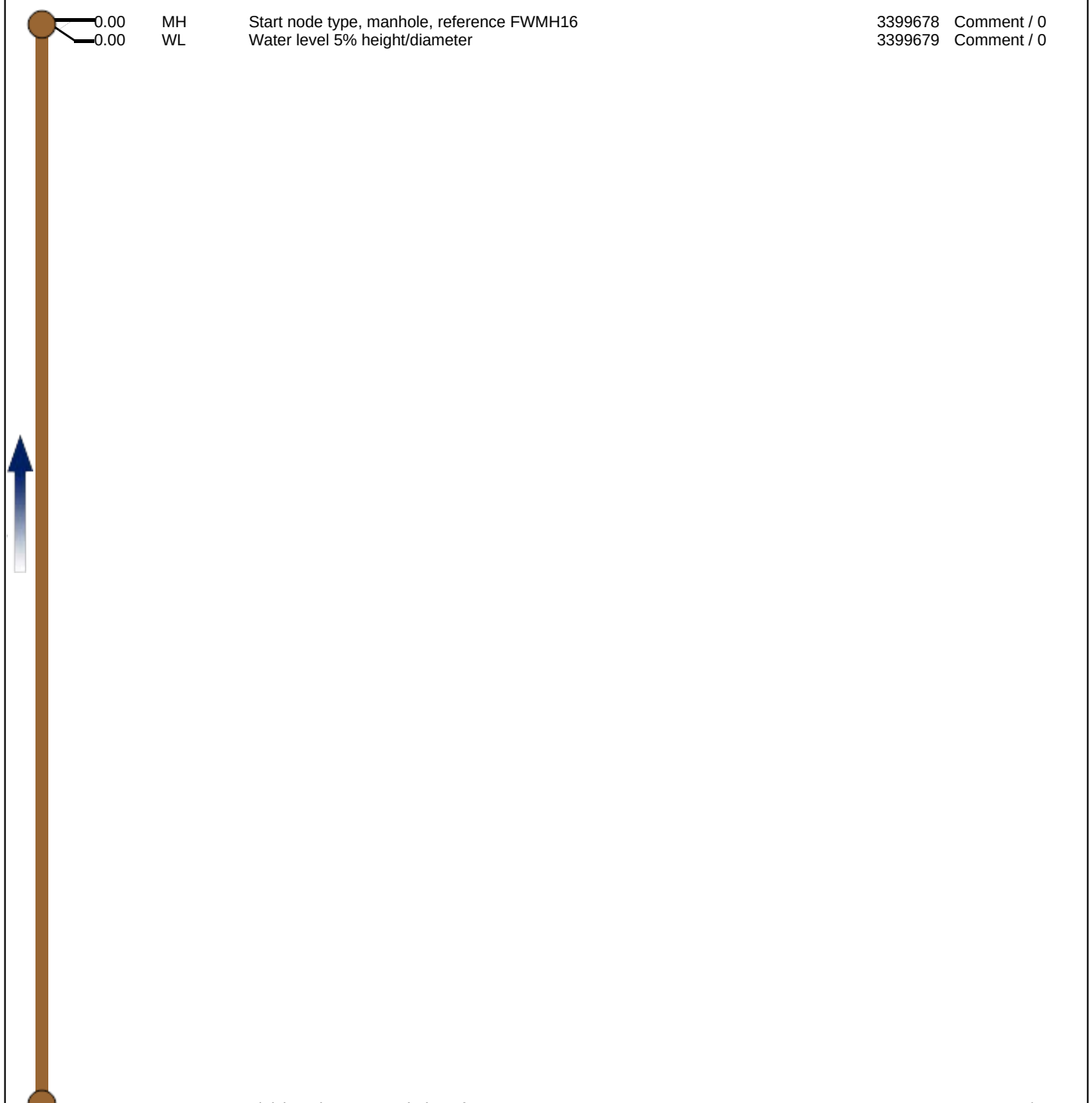
M/H Ref:FWMH8 | I/L : metres | M/H Depth: 1400 metres

| Position                                                                           | Code | Description                                 | Photo   | Type/Grade  |
|------------------------------------------------------------------------------------|------|---------------------------------------------|---------|-------------|
| 0.00                                                                               | MH   | Start node type, manhole, reference FWMH8   | 3398362 | Comment / 0 |
| 0.00                                                                               | WL   | Water level 5% height/diameter              | 3398365 | Comment / 0 |
|  |      |                                             |         |             |
| 25.31                                                                              | MHF  | Finish node type, manhole, reference FWMH20 | 3398376 | Comment / 0 |

M/H Ref:FWMH20 | I/L : metres | M/H Depth: 1170 metres

|                                                                                |                                                                       |                                                                                   |                                |                                   |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------|-----------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                           | Pipe Length Reference(PLR)<br><b>FWMH19 X</b>                                     | Date<br><b>18/06/2019</b>      | Pre Cleaned<br><b>Not Cleaned</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                      | Service Grade/Structural Grade<br><b>0/0</b>                                      | Base Unit<br><b>DDFRT6A12S</b> | Section Number<br><b>38</b>       |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                       | Division<br>District<br>Location Details                                          |                                |                                   |
| Purpose<br>Duty <b>Foul</b><br>Catchment                                       | Shape/Size <b>100mm</b><br>Material <b>Vitrified clay</b><br>Category | Start MH <b>FWMH16</b><br>End MH <b>FWMH19</b><br>Total length <b>9.16 metres</b> |                                |                                   |
| Scale <b>1:0.47</b><br>Direction <b>Upstream</b>                               |                                                                       |                                                                                   |                                |                                   |

M/H Ref:FWMH16 | I/L : metres | M/H Depth: 860 metres

| Position                                                                           | Code | Description                                 | Photo   | Type/Grade  |
|------------------------------------------------------------------------------------|------|---------------------------------------------|---------|-------------|
| 0.00                                                                               | MH   | Start node type, manhole, reference FWMH16  | 3399678 | Comment / 0 |
| 0.00                                                                               | WL   | Water level 5% height/diameter              | 3399679 | Comment / 0 |
|  |      |                                             |         |             |
| 9.16                                                                               | MHF  | Finish node type, manhole, reference FWMH19 | 3399680 | Comment / 0 |

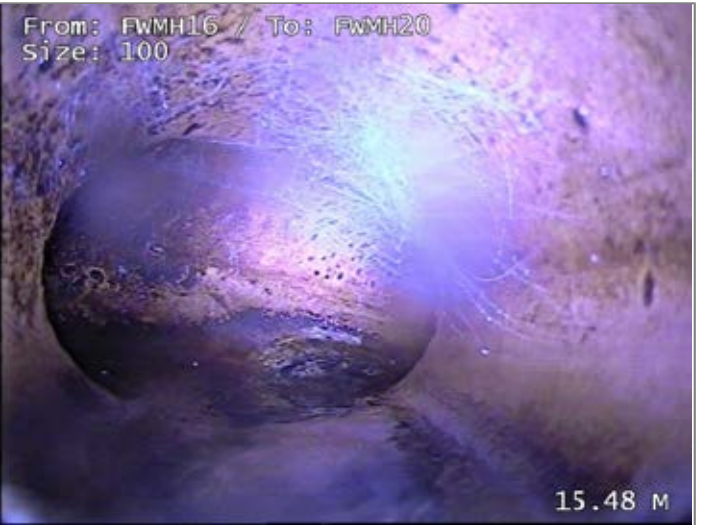
M/H Ref:FWMH19 | I/L : metres | M/H Depth: 0 metres

|                                                                                |                                                                       |                                               |                                                                                    |                                   |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                           | Pipe Length Reference(PLR)<br><b>FWMH16 X</b> | Date<br><b>18/06/2019</b>                                                          | Pre Cleaned<br><b>Not Cleaned</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                      | Service Grade/Structural Grade<br><b>0/0</b>  | Base Unit<br><b>DDFRT6A12S</b>                                                     | Section Number<br><b>39</b>       |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                       | Division<br>District<br>Location Details      |                                                                                    |                                   |
| Purpose<br>Duty <b>Foul</b><br>Catchment                                       | Shape/Size <b>100mm</b><br>Material <b>Vitrified clay</b><br>Category |                                               | Start MH <b>FWMH16</b><br>End MH <b>FWMH23</b><br>Total length <b>25.72 metres</b> |                                   |
| Scale <b>1:1.31</b><br>Direction <b>Downstream</b>                             |                                                                       |                                               |                                                                                    |                                   |

M/H Ref:FWMH16 | I/L : metres | M/H Depth: 860 metres

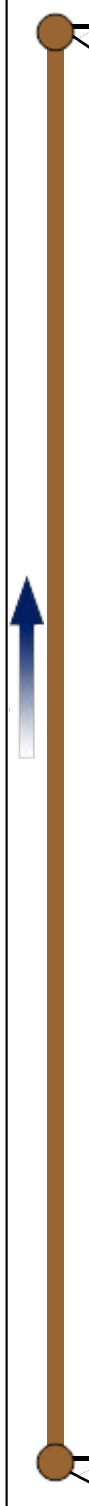
| Position | Code | Description                                 | Photo   | Type/Grade  |
|----------|------|---------------------------------------------|---------|-------------|
| 0.00     | MH   | Start node type, manhole, reference FWMH16  | 3399682 | Comment / 0 |
| 0.00     | WL   | Water level 5% height/diameter              | 3399683 | Comment / 0 |
| 7.79     | REM  | JOINS ANOTHER PIPE                          | 3399684 | Comment / 0 |
| 15.48    | REM  | JOINS ANOTHER PIPE                          | 3399685 | Comment / 0 |
| 25.72    | MHF  | Finish node type, manhole, reference FWMH23 | 3399686 | Comment / 0 |

M/H Ref:FWMH23 | I/L : metres | M/H Depth: 0 metres

| Job Number<br><b>780878</b>                                                                                                                                             | Surveyed by (Operator)<br><b>PAUL BAYNHAM</b> | Base Unit<br><b>DDFRT6A12S</b>                                                                                                                                             | Date<br><b>18/06/2019</b> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| <p>From: FWMH16 / To: FWMH20<br/>Size: 100</p>  <p>8.07 M</p> <p>JOINS ANOTHER PIPE</p> |                                               | <p>From: FWMH16 / To: FWMH20<br/>Size: 100</p>  <p>15.48 M</p> <p>JOINS ANOTHER PIPE</p> |                           |

|                                                                                |                             |                                                                       |                                |                                                                                    |
|--------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b> | Pipe Length Reference(PLR)<br><b>FWMH17 X</b>                         | Date<br><b>18/06/2019</b>      | Pre Cleaned<br><b>Not Cleaned</b>                                                  |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present            | Service Grade/Structural Grade<br><b>3/0</b>                          | Base Unit<br><b>DDFRT6A12S</b> | Section Number<br><b>40</b>                                                        |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                             | Division<br>District<br>Location Details                              |                                |                                                                                    |
| Purpose<br>Duty <b>Foul</b><br>Catchment                                       |                             | Shape/Size <b>100mm</b><br>Material <b>Vitrified clay</b><br>Category |                                | Start MH <b>FWMH16</b><br>End MH <b>FWMH17</b><br>Total length <b>14.52 metres</b> |
| Scale <b>1:0.73</b><br>Direction <b>Upstream</b>                               |                             |                                                                       |                                |                                                                                    |

M/H Ref:FWMH16 | I/L : metres | M/H Depth: 860 metres

| Position                                                                          | Code | Description                                 | Photo   | Type/Grade  |
|-----------------------------------------------------------------------------------|------|---------------------------------------------|---------|-------------|
| 0.00                                                                              | MH   | Start node type, manhole, reference FWMH16  | 3399688 | Comment / 0 |
| 0.00                                                                              | WL   | Water level 5% height/diameter              | 3399690 | Comment / 0 |
|  |      |                                             |         |             |
| 14.52                                                                             | RM   | Roots mass 10% cross-sectional area loss    | 3399691 | Service / 3 |
| 14.52                                                                             | MHF  | Finish node type, manhole, reference FWMH17 | 3399692 | Comment / 0 |

M/H Ref:FWMH17 | I/L : metres | M/H Depth: 610 metres

Job Number  
**780878**

Surveyed by (Operator)  
**PAUL BAYNHAM**

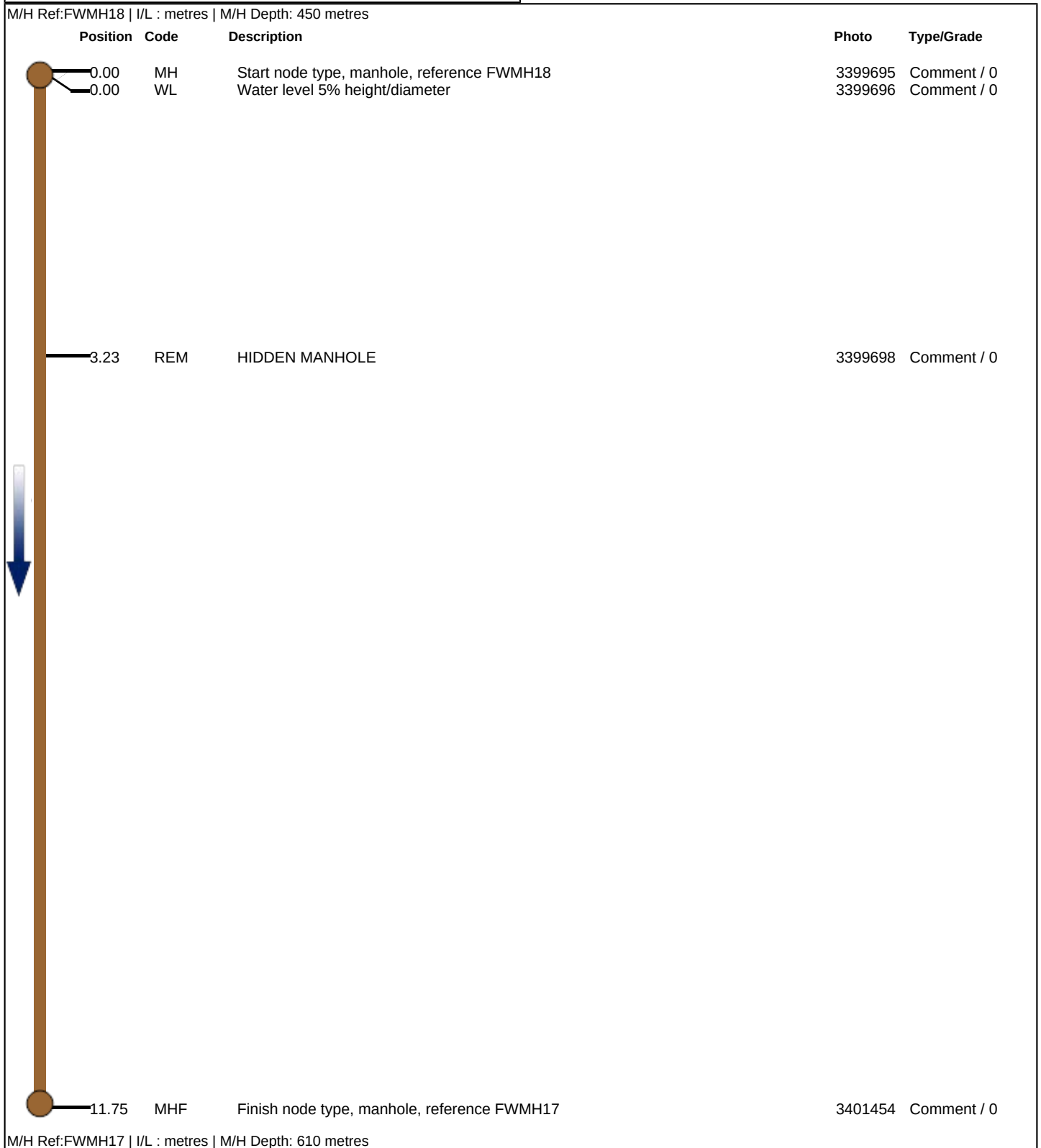
Base Unit  
**DDFRT6A12S**

Date  
**18/06/2019**



Roots mass 10% cross-sectional area loss

|                                                                                |                                                                           |                                               |                                                                                    |                                                        |
|--------------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                               | Pipe Length Reference(PLR)<br><b>FWMH18 X</b> | Date<br><b>18/06/2019</b>                                                          | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                          | Service Grade/Structural Grade<br><b>0/0</b>  | Base Unit<br><b>DDFRT6A12S</b>                                                     | Section Number<br><b>41</b>                            |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                           | Division<br>District<br>Location Details      |                                                                                    |                                                        |
| Purpose<br>Duty <b>Foul</b><br>Catchment                                       | Shape/Size <b>100mm</b><br>Material <b>Polyvinyl chloride</b><br>Category |                                               | Start MH <b>FWMH18</b><br>End MH <b>FWMH17</b><br>Total length <b>11.75 metres</b> |                                                        |
| Scale <b>1:0.58</b><br>Direction <b>Downstream</b>                             |                                                                           |                                               |                                                                                    |                                                        |



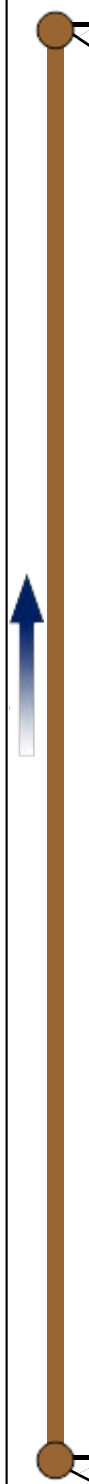
|                             |                                               |                                |                           |
|-----------------------------|-----------------------------------------------|--------------------------------|---------------------------|
| Job Number<br><b>780878</b> | Surveyed by (Operator)<br><b>PAUL BAYNHAM</b> | Base Unit<br><b>DDFRT6A12S</b> | Date<br><b>18/06/2019</b> |
|-----------------------------|-----------------------------------------------|--------------------------------|---------------------------|



HIDDEN MANHOLE

|                                                                                |                                                                       |                                               |                                                                                   |                                                        |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                           | Pipe Length Reference(PLR)<br><b>FWMH23 X</b> | Date<br><b>20/06/2019</b>                                                         | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                      | Service Grade/Structural Grade<br><b>0/0</b>  | Base Unit<br><b>DDFRT6A12S</b>                                                    | Section Number<br><b>42</b>                            |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                       | Division<br>District<br>Location Details      |                                                                                   |                                                        |
| Purpose<br>Duty <b>Foul</b><br>Catchment                                       | Shape/Size <b>100mm</b><br>Material <b>Vitrified clay</b><br>Category |                                               | Start MH <b>FWMH20</b><br>End MH <b>FWMH23</b><br>Total length <b>4.51 metres</b> |                                                        |
| Scale <b>1:0.21</b><br>Direction <b>Upstream</b>                               |                                                                       |                                               |                                                                                   |                                                        |

M/H Ref:FWMH20 | I/L : metres | M/H Depth: 1170 metres

| Position                                                                          | Code | Description                                            | Photo   | Type/Grade  |
|-----------------------------------------------------------------------------------|------|--------------------------------------------------------|---------|-------------|
| 0.00                                                                              | MH   | Start node type, manhole, reference FWMH20             | 3404870 | Comment / 0 |
| 0.00                                                                              | WL   | Water level 5% height/diameter                         | 3404871 | Comment / 0 |
|  |      |                                                        |         |             |
| 4.51                                                                              | REM  | UNABLE TO GET CAMERA THROUGH LINER WITH SKID ON        | 3404873 | Comment / 0 |
| 4.51                                                                              | MCZ  | Material of drain/sewer changes to LINER at this point | 3404879 | Comment / 0 |

M/H Ref:FWMH23 | I/L : metres | M/H Depth: 0 metres

Job Number  
**780878**

Surveyed by (Operator)  
**PAUL BAYNHAM**

Base Unit  
**DDFRT6A12S**

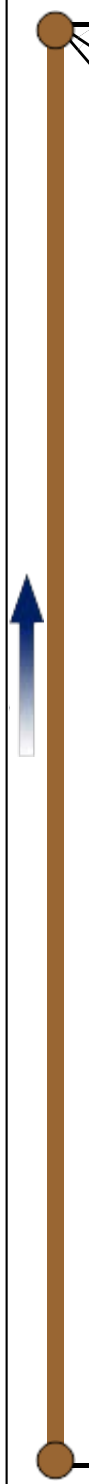
Date  
**20/06/2019**



UNABLE TO GET CAMERA THROUGH LINER WITH SKID ON

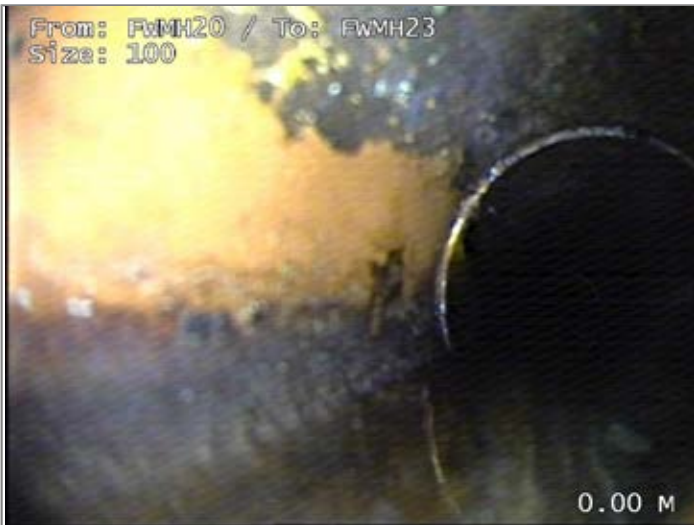
|                                                                                |                                                                       |                                               |                                                                                    |                                                        |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                           | Pipe Length Reference(PLR)<br><b>FWMH23 X</b> | Date<br><b>20/06/2019</b>                                                          | Pre Cleaned<br><b>Flushed through to enable survey</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                      | Service Grade/Structural Grade<br><b>0/0</b>  | Base Unit<br><b>DDFRT6A12S</b>                                                     | Section Number<br><b>43</b>                            |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                       | Division<br>District<br>Location Details      |                                                                                    |                                                        |
| Purpose<br>Duty <b>Foul</b><br>Catchment                                       | Shape/Size <b>100mm</b><br>Material <b>Vitrified clay</b><br>Category |                                               | Start MH <b>FWMH20</b><br>End MH <b>FWMH23</b><br>Total length <b>31.98 metres</b> |                                                        |
| Scale <b>1:1.63</b><br>Direction <b>Upstream</b>                               |                                                                       |                                               |                                                                                    |                                                        |

M/H Ref:FWMH20 | I/L : metres | M/H Depth: 1170 metres

| Position                                                                          | Code | Description                                 | Photo   | Type/Grade  |
|-----------------------------------------------------------------------------------|------|---------------------------------------------|---------|-------------|
| 0.00                                                                              | MH   | Start node type, manhole, reference FWMH20  | 3404889 | Comment / 0 |
| 0.00                                                                              | WL   | Water level 5% height/diameter              | 3404890 | Comment / 0 |
| 0.00                                                                              | REM  | WITHOUT CAMERA SKID                         | 3404898 | Comment / 0 |
|  |      |                                             |         |             |
| 31.98                                                                             | MHF  | Finish node type, manhole, reference FWMH23 | 3405333 | Comment / 0 |

M/H Ref:FWMH23 | I/L : metres | M/H Depth: 0 metres

|                             |                                               |                                |                           |
|-----------------------------|-----------------------------------------------|--------------------------------|---------------------------|
| Job Number<br><b>780878</b> | Surveyed by (Operator)<br><b>PAUL BAYNHAM</b> | Base Unit<br><b>DDFRT6A12S</b> | Date<br><b>20/06/2019</b> |
|-----------------------------|-----------------------------------------------|--------------------------------|---------------------------|



WITHOUT CAMERA SKID

|                                                                                |                                                                  |                                                                                |                                |                                   |
|--------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------|-----------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                      | Pipe Length Reference(PLR)<br><b>FWMH9 X</b>                                   | Date<br><b>20/06/2019</b>      | Pre Cleaned<br><b>Not Cleaned</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                 | Service Grade/Structural Grade<br><b>0/0</b>                                   | Base Unit<br><b>DDFRT6A12S</b> | Section Number<br><b>44</b>       |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                  | Division<br>District<br>Location Details                                       |                                |                                   |
| Purpose<br>Duty <b>Foul</b><br>Catchment                                       | Shape/Size <b>150mm</b><br>Material <b>Cast iron</b><br>Category | Start MH <b>FWMH25</b><br>End MH <b>FWMH9</b><br>Total length <b>48 metres</b> |                                |                                   |
| Scale <b>1:2.52</b><br>Direction <b>Upstream</b>                               |                                                                  |                                                                                |                                |                                   |

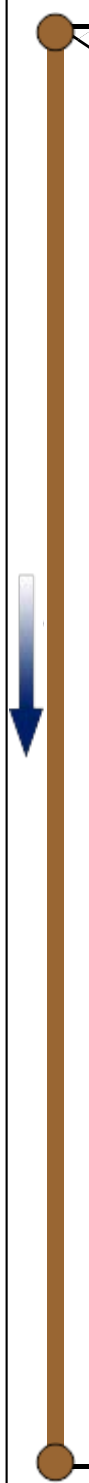
M/H Ref:FWMH25 | I/L : metres | M/H Depth: 2480 metres

| Position                                                                          | Code | Description                                | Photo   | Type/Grade  |
|-----------------------------------------------------------------------------------|------|--------------------------------------------|---------|-------------|
| 0.00                                                                              | MH   | Start node type, manhole, reference FWMH25 | 3405344 | Comment / 0 |
| 0.00                                                                              | WL   | Water level 5% height/diameter             | 3405347 | Comment / 0 |
|  |      |                                            |         |             |
| 48.00                                                                             | MHF  | Finish node type, manhole, reference FWMH9 | 3405430 | Comment / 0 |

M/H Ref:FWMH9 | I/L : metres | M/H Depth: 0 metres

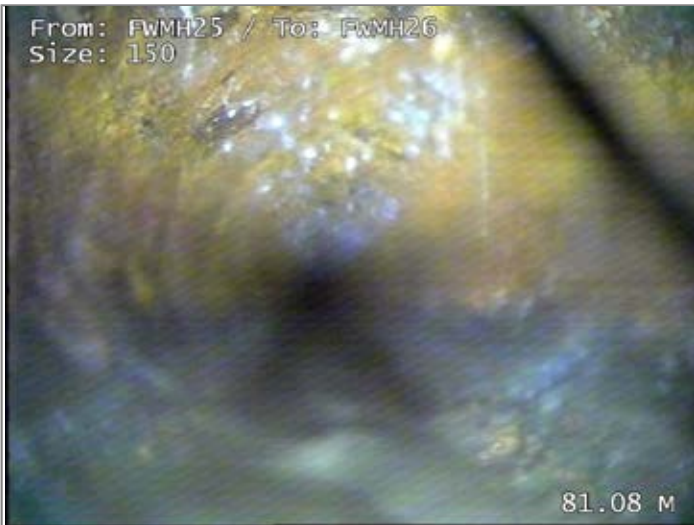
|                                                                                |                                                                  |                                                                                    |                                |                                   |
|--------------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------|-----------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                      | Pipe Length Reference(PLR)<br><b>FWMH25 X</b>                                      | Date<br><b>20/06/2019</b>      | Pre Cleaned<br><b>Not Cleaned</b> |
| Weather<br><b>3 - Light Rain</b>                                               | Customer Present                                                 | Service Grade/Structural Grade<br><b>0/0</b>                                       | Base Unit<br><b>DDFRT6A12S</b> | Section Number<br><b>45</b>       |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                  | Division<br>District<br>Location Details                                           |                                |                                   |
| Purpose<br>Duty <b>Foul</b><br>Catchment                                       | Shape/Size <b>150mm</b><br>Material <b>Cast iron</b><br>Category | Start MH <b>FWMH25</b><br>End MH <b>FWMH26</b><br>Total length <b>81.08 metres</b> |                                |                                   |
| Scale <b>1:4.25</b><br>Direction <b>Downstream</b>                             |                                                                  |                                                                                    |                                |                                   |

M/H Ref:FWMH25 | I/L : metres | M/H Depth: 0 metres

| Position                                                                          | Code | Description                                                    | Photo   | Type/Grade  |
|-----------------------------------------------------------------------------------|------|----------------------------------------------------------------|---------|-------------|
| 0.00                                                                              | MH   | Start node type, manhole, reference FWMH25                     | 3405462 | Comment / 0 |
| 0.00                                                                              | WL   | Water level 5% height/diameter                                 | 3405463 | Comment / 0 |
|  |      |                                                                |         |             |
| 81.08                                                                             | REM  | UNABLE TO PUSH ANY FURTHER AND LOCATE MANHOLE RAN OUT OF CABLE | 3405507 | Comment / 0 |

M/H Ref:FWMH26 | I/L : metres | M/H Depth: 0 metres

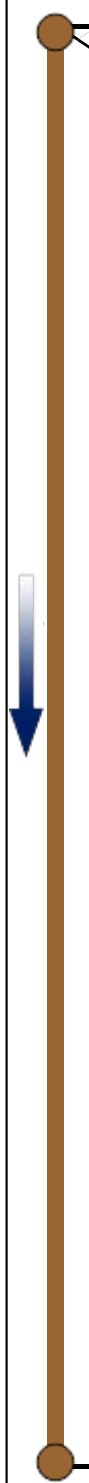
|                             |                                               |                                |                           |
|-----------------------------|-----------------------------------------------|--------------------------------|---------------------------|
| Job Number<br><b>780878</b> | Surveyed by (Operator)<br><b>PAUL BAYNHAM</b> | Base Unit<br><b>DDFRT6A12S</b> | Date<br><b>20/06/2019</b> |
|-----------------------------|-----------------------------------------------|--------------------------------|---------------------------|



UNABLE TO PUSH ANY FURTHER AND LOCATE MANHOLE RAN  
OUT OF CABLE

|                                                                                |                                                                       |                                                                                    |                                |                                   |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------|-----------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                           | Pipe Length Reference(PLR)<br><b>FWMH24 X</b>                                      | Date<br><b>20/06/2019</b>      | Pre Cleaned<br><b>Not Cleaned</b> |
| Weather<br><b>1 - Dry</b>                                                      | Customer Present                                                      | Service Grade/Structural Grade<br><b>0/0</b>                                       | Base Unit<br><b>DDFRT6A12S</b> | Section Number<br><b>46</b>       |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                       | Division<br>District<br>Location Details                                           |                                |                                   |
| Purpose<br>Duty <b>Foul</b><br>Catchment                                       | Shape/Size <b>100mm</b><br>Material <b>Vitrified clay</b><br>Category | Start MH <b>FWMH24</b><br>End MH <b>FWMH19</b><br>Total length <b>11.82 metres</b> |                                |                                   |
| Scale <b>1:0.58</b><br>Direction <b>Downstream</b>                             |                                                                       |                                                                                    |                                |                                   |

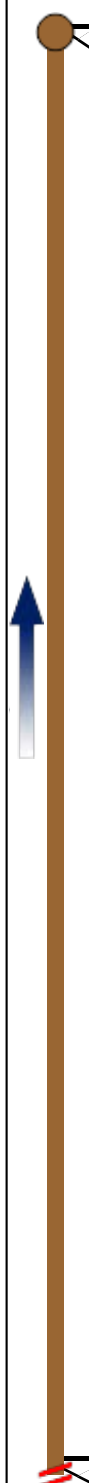
M/H Ref:FWMH24 | I/L : metres | M/H Depth: 1180 metres

| Position                                                                          | Code | Description                                 | Photo   | Type/Grade  |
|-----------------------------------------------------------------------------------|------|---------------------------------------------|---------|-------------|
| 0.00                                                                              | MH   | Start node type, manhole, reference FWMH24  | 3406492 | Comment / 0 |
| 0.00                                                                              | WL   | Water level 5% height/diameter              | 3406494 | Comment / 0 |
|  |      |                                             |         |             |
| 11.82                                                                             | MHF  | Finish node type, manhole, reference FWMH19 | 3406495 | Comment / 0 |

M/H Ref:FWMH19 | I/L : metres | M/H Depth: 1390 metres

|                                                                                |                                                                       |                                                                                  |                                |                                   |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------------------|--------------------------------|-----------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                           | Pipe Length Reference(PLR)<br><b>SWMH6 X</b>                                     | Date<br><b>20/06/2019</b>      | Pre Cleaned<br><b>Not Cleaned</b> |
| Weather<br><b>1 - Dry</b>                                                      | Customer Present                                                      | Service Grade/Structural Grade<br><b>0/5</b>                                     | Base Unit<br><b>DDFRT6A12S</b> | Section Number<br><b>47</b>       |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                       | Division<br>District<br>Location Details                                         |                                |                                   |
| Purpose<br>Duty <b>Surface water</b><br>Catchment                              | Shape/Size <b>150mm</b><br>Material <b>Vitrified clay</b><br>Category | Start MH <b>SWMH18</b><br>End MH <b>SWMH6</b><br>Total length <b>8.57 metres</b> |                                |                                   |
| Scale <b>1:0.42</b><br>Direction <b>Upstream</b>                               |                                                                       |                                                                                  |                                |                                   |

M/H Ref:SWMH18 | I/L : metres | M/H Depth: 2700 metres

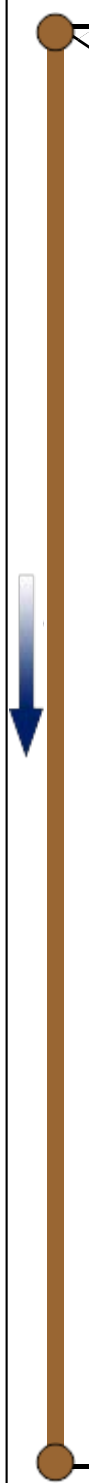
| Position                                                                          | Code | Description                                                       | Photo   | Type/Grade            |
|-----------------------------------------------------------------------------------|------|-------------------------------------------------------------------|---------|-----------------------|
| 0.00                                                                              | MH   | Start node type, manhole, reference SWMH18                        | 3406760 | Comment / 0           |
| 0.00                                                                              | WL   | Water level 5% height/diameter                                    | 3406762 | Comment / 0           |
|  |      |                                                                   |         |                       |
| 8.57                                                                              | XP   | <b>Collapsed drain/sewer 100%</b>                                 | 3406763 | <b>Structural / 5</b> |
| 8.57                                                                              | SA   | Survey abandoned - Remark: ABANDONED SURVEY DUE TO COLLAPSED PIPE | 3406764 | Comment / 0           |

M/H Ref:SWMH6 | I/L : metres | M/H Depth: 0 metres

| Job Number<br><b>780878</b>                                                                                                                                                                                                                                                                                                                                                                                                                   | Surveyed by (Operator)<br><b>PAUL BAYNHAM</b> | Base Unit<br><b>DDFRT6A12S</b> | Date<br><b>20/06/2019</b> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------|---------------------------|
| <div> <div> <p>From: SWMH18 / To: SWMH6<br/>Size: 150</p>  <p>8.59 M</p> <p>Collapsed drain/sewer 100%</p> </div> <div> <p>From: SWMH18 / To: SWMH6<br/>Size: 150</p>  <p>8.57 M</p> <p>Survey abandoned - Remark: ABANDONED SURVEY DUE TO COLLAPSED PIPE</p> </div> </div> |                                               |                                |                           |

|                                                                                |                                                                           |                                                                               |                                |                                   |
|--------------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------|-----------------------------------|
| Surveyed by (Operator)<br><b>PAUL BAYNHAM</b>                                  | Job Number<br><b>780878</b>                                               | Pipe Length Reference(PLR)<br><b>FWMH27 X</b>                                 | Date<br><b>21/06/2019</b>      | Pre Cleaned<br><b>Not Cleaned</b> |
| Weather<br><b>1 - Dry</b>                                                      | Customer Present                                                          | Service Grade/Structural Grade<br><b>0/0</b>                                  | Base Unit<br><b>DDFRT6A12S</b> | Section Number<br><b>48</b>       |
| Road <b>BBC</b><br>Place <b>CAVERSHAM PARK</b><br>Location <b>PEPPARD ROAD</b> |                                                                           | Division<br>District<br>Location Details                                      |                                |                                   |
| Purpose<br>Duty <b>Foul</b><br>Catchment                                       | Shape/Size <b>100mm</b><br>Material <b>Polyvinyl chloride</b><br>Category | Start MH <b>FWMH27</b><br>End MH <b>TANK</b><br>Total length <b>16 metres</b> |                                |                                   |
| Scale <b>1:0.84</b><br>Direction <b>Downstream</b>                             |                                                                           |                                                                               |                                |                                   |

M/H Ref:FWMH27 | I/L : metres | M/H Depth: 650 metres

| Position                                                                          | Code | Description                                          | Photo   | Type/Grade  |
|-----------------------------------------------------------------------------------|------|------------------------------------------------------|---------|-------------|
| 0.00                                                                              | MH   | Start node type, manhole, reference FWMH27           | 3408427 | Comment / 0 |
| 0.00                                                                              | WL   | Water level 5% height/diameter                       | 3408428 | Comment / 0 |
|  |      |                                                      |         |             |
| 16.00                                                                             | ICF  | Finish node type, inspection chamber, reference TANK | 3408432 | Comment / 0 |

M/H Ref:TANK | I/L : metres | M/H Depth: 3700 metres

## Structural Defects (SRM 4)

| Job Number<br>780878 |             |      |     | Surveyed by (Operator)<br>PAUL BAYNHAM |            |                    | Base Unit<br>DDFRT6A12S |                   |      | Date<br>13/06/2019 |       |            |             |
|----------------------|-------------|------|-----|----------------------------------------|------------|--------------------|-------------------------|-------------------|------|--------------------|-------|------------|-------------|
| No.                  | PLR         | Dir. | Use | Shape/Size                             | Date       | Mat.               | Total Length            | Inspection Length | Cat. | Peak Score         | Grade | Mean Score | Total Score |
| 1                    | SWMH1 X     | U    | S   | 150                                    | 13/06/2019 | Vitrified clay     | 14.1 metres             | 14.1              |      | 0                  | 1     | 0          | 0           |
| 2                    | SWMH2 X     | D    | S   | 150                                    | 13/06/2019 | Vitrified clay     | 19.67 metres            | 19.67             |      | 0                  | 1     | 0          | 0           |
| 3                    | SWMH3 X     | U    | S   | 225                                    | 13/06/2019 | Vitrified clay     | 40.05 metres            | 40.05             |      | 0                  | 1     | 0          | 0           |
| 4                    | SWMH4 X     | D    | S   | 225                                    | 13/06/2019 | Vitrified clay     | 23.11 metres            | 23.11             |      | 0                  | 1     | 0          | 0           |
| 5                    | SWMH5 X     | D    | S   | 225                                    | 13/06/2019 | Vitrified clay     | 25.89 metres            | 25.89             |      | 0                  | 1     | 0          | 0           |
| 6                    | FWMH1 X     | U    | F   | 100                                    | 13/06/2019 | Cast iron          | 22.02 metres            | 22.02             |      | 0                  | 1     | 0          | 0           |
| 7                    | PUMP STATIX | U    | F   | 100                                    | 13/06/2019 | Cast iron          | 36.16 metres            | 36.16             |      | 0                  | 1     | 0          | 0           |
| 8                    | FWMH3 X     | D    | F   | 150                                    | 13/06/2019 | Cast iron          | 22.02 metres            | 22.02             |      | 0                  | 1     | 0          | 0           |
| 9                    | FWMH2 X     | U    | F   | 150                                    | 13/06/2019 | Cast iron          | 6.21 metres             | 6.21              |      | 0                  | 1     | 0          | 0           |
| 10                   | FWMH4 X     | U    | F   | 150                                    | 13/06/2019 | Cast iron          | 30.38 metres            | 30.38             |      | 0                  | 1     | 0          | 0           |
| 11                   | FWMH5 X     | D    | F   | 150                                    | 13/06/2019 | Cast iron          | 14.34 metres            | 14.34             |      | 0                  | 1     | 0          | 0           |
| 12                   | FWMH1B X    | D    | F   | 150                                    | 13/06/2019 | Vitrified clay     | 1.67 metres             | 1.67              |      | 40                 | 3     | 23.95      | 40          |
| 13                   | FWMH1A X    | D    | F   | 150                                    | 13/06/2019 | Vitrified clay     | 16.49 metres            | 16.49             |      | 10                 | 2     | 6.06       | 100         |
| 14                   | FWMH11 X    | U    | F   | 100                                    | 13/06/2019 | Vitrified clay     | 10.04 metres            | 10.04             |      | 0                  | 1     | 0          | 0           |
| 15                   | FWMH12 X    | U    | F   | 100                                    | 13/06/2019 | Vitrified clay     | 7.07 metres             | 7.07              |      | 0                  | 1     | 0          | 0           |
| 16                   | FWMH10 X    | D    | F   | 100                                    | 13/06/2019 | Vitrified clay     | 10.73 metres            | 10.73             |      | 40                 | 3     | 4.66       | 50          |
| 17                   | FWMH13 X    | U    | F   | 100                                    | 13/06/2019 | Vitrified clay     | 6.36 metres             | 6.36              |      | 0                  | 1     | 0          | 0           |
| 18                   | SWMH9 X     | U    | S   | 150                                    | 13/06/2019 | Vitrified clay     | 11.36 metres            | 11.36             |      | 80                 | 4     | 7.04       | 80          |
| 19                   | SWMH10 X    | D    | S   | 150                                    | 13/06/2019 | Vitrified clay     | 26.41 metres            | 26.41             |      | 0                  | 1     | 0          | 0           |
| 20                   | SWMH11 X    | U    | S   | 150                                    | 13/06/2019 | Vitrified clay     | 9.44 metres             | 9.44              |      | 0                  | 1     | 0          | 0           |
| 21                   | SWMH12 X    | D    | S   | 150                                    | 13/06/2019 | Vitrified clay     | 1.87 metres             | 1.87              |      | 0                  | 1     | 0          | 0           |
| 22                   | SWMH15 X    | U    | S   | 225                                    | 13/06/2019 | Vitrified clay     | 20.52 metres            | 20.52             |      | 0                  | 1     | 0          | 0           |
| 23                   | SWMH14 X    | D    | S   | 225                                    | 13/06/2019 | Vitrified clay     | 32.75 metres            | 32.75             |      | 0                  | 1     | 0          | 0           |
| 24                   | FWMH14 X    | U    | F   | 100                                    | 13/06/2019 | Cast iron          | 27.49 metres            | 27.49             |      | 0                  | 1     | 0          | 0           |
| 25                   | FWMH15 X    | D    | F   | 100                                    | 13/06/2019 | Cast iron          | 36.31 metres            | 36.31             |      | 0                  | 1     | 0          | 0           |
| 26                   | FWMH22 X    | U    | F   | 100                                    | 13/06/2019 | Polyvinyl chloride | 4.95 metres             | 4.95              |      | 0                  | 1     | 0          | 0           |
| 27                   | FWMH21 X    | D    | F   | 100                                    | 13/06/2019 | Liner              | 18.81 metres            | 18.81             |      | 0                  | 1     | 0          | 0           |
| 28                   | SWMH17 X    | D    | S   | 100                                    | 13/06/2019 | Polyvinyl chloride | 12.69 metres            | 12.69             |      | 0                  | 1     | 0          | 0           |
| 29                   | SWMH16 X    | U    | S   | 225                                    | 13/06/2019 | Vitrified clay     | 0 metres                | 29.64             |      | 0                  | 1     | 0          | 0           |

## Structural Defects (SRM 4)

| Job Number<br><b>780878</b> |          |      |     | Surveyed by (Operator)<br><b>PAUL BAYNHAM</b> |            | Base Unit<br><b>DDFRT6A12S</b> |              |                   | Date<br><b>13/06/2019</b> |            |       |            |             |
|-----------------------------|----------|------|-----|-----------------------------------------------|------------|--------------------------------|--------------|-------------------|---------------------------|------------|-------|------------|-------------|
| No.                         | PLR      | Dir. | Use | Shape/Size                                    | Date       | Mat.                           | Total Length | Inspection Length | Cat.                      | Peak Score | Grade | Mean Score | Total Score |
| 30                          | SWMH7 X  | D    | S   | 300                                           | 13/06/2019 | Vitrified clay                 | 8.95 metres  | 8.95              |                           | 0          | 1     | 0          | 0           |
| 31                          | SWMH8 X  | D    | S   | 300                                           | 13/06/2019 | Vitrified clay                 | 26.43 metres | 26.43             |                           | 0          | 1     | 0          | 0           |
| 32                          | SWMH18 X | D    | S   | 300                                           | 13/06/2019 | Vitrified clay                 | 28.02 metres | 28.02             |                           | 0          | 1     | 0          | 0           |
| 33                          | SWMH19 X | D    | S   | 300                                           | 13/06/2019 | Vitrified clay                 | 49.11 metres | 49.11             |                           | 0          | 1     | 0          | 0           |
| 34                          | FWMH6 X  | U    | F   | 150                                           | 13/06/2019 | Cast iron                      | 7.13 metres  | 7.13              |                           | 0          | 1     | 0          | 0           |
| 35                          | FWMH7 X  | D    | F   | 150                                           | 13/06/2019 | Cast iron                      | 42.9 metres  | 42.9              |                           | 0          | 1     | 0          | 0           |
| 36                          | FWMH8 X  | D    | F   | 100                                           | 13/06/2019 | Liner                          | 6.23 metres  | 6.23              |                           | 0          | 1     | 0          | 0           |
| 37                          | FWMH20 X | U    | F   | 100                                           | 13/06/2019 | Liner                          | 25.31 metres | 25.31             |                           | 0          | 1     | 0          | 0           |
| 38                          | FWMH19 X | U    | F   | 100                                           | 13/06/2019 | Vitrified clay                 | 9.16 metres  | 9.16              |                           | 0          | 1     | 0          | 0           |
| 39                          | FWMH16 X | D    | F   | 100                                           | 13/06/2019 | Vitrified clay                 | 25.72 metres | 25.72             |                           | 0          | 1     | 0          | 0           |
| 40                          | FWMH17 X | U    | F   | 100                                           | 13/06/2019 | Vitrified clay                 | 14.52 metres | 14.52             |                           | 0          | 1     | 0          | 0           |
| 41                          | FWMH18 X | D    | F   | 100                                           | 13/06/2019 | Polyvinyl chloride             | 11.75 metres | 11.75             |                           | 0          | 1     | 0          | 0           |
| 42                          | FWMH23 X | U    | F   | 100                                           | 13/06/2019 | Vitrified clay                 | 4.51 metres  | 4.51              |                           | 0          | 1     | 0          | 0           |
| 43                          | FWMH23 X | U    | F   | 100                                           | 13/06/2019 | Vitrified clay                 | 31.98 metres | 31.98             |                           | 0          | 1     | 0          | 0           |
| 44                          | FWMH9 X  | U    | F   | 150                                           | 13/06/2019 | Cast iron                      | 48 metres    | 48                |                           | 0          | 1     | 0          | 0           |
| 45                          | FWMH25 X | D    | F   | 150                                           | 13/06/2019 | Cast iron                      | 81.08 metres | 81.08             |                           | 0          | 1     | 0          | 0           |
| 46                          | FWMH24 X | D    | F   | 100                                           | 13/06/2019 | Vitrified clay                 | 11.82 metres | 11.82             |                           | 0          | 1     | 0          | 0           |
| 47                          | SWMH6 X  | U    | S   | 150                                           | 13/06/2019 | Vitrified clay                 | 8.57 metres  | 8.57              |                           | 165        | 5     | 19.25      | 165         |
| 48                          | FWMH27 X | D    | F   | 100                                           | 13/06/2019 | Polyvinyl chloride             | 16 metres    | 16                |                           | 0          | 1     | 0          | 0           |

## Service Defects (SRM 4)

| Job Number<br>780878 |             |      |     | Surveyed by (Operator)<br>PAUL BAYNHAM |            |                    | Base Unit<br>DDFRT6A12S |                   |      | Date<br>13/06/2019 |       |            |             |
|----------------------|-------------|------|-----|----------------------------------------|------------|--------------------|-------------------------|-------------------|------|--------------------|-------|------------|-------------|
| No.                  | PLR         | Dir. | Use | Shape/Size                             | Date       | Mat.               | Total Length            | Inspection Length | Cat. | Peak Score         | Grade | Mean Score | Total Score |
| 1                    | SWMH1 X     | U    | S   | 150                                    | 13/06/2019 | Vitrified clay     | 14.1 metres             | 14.1              |      | 0                  | 1     | 0          | 0           |
| 2                    | SWMH2 X     | D    | S   | 150                                    | 13/06/2019 | Vitrified clay     | 19.67 metres            | 19.67             |      | 0                  | 1     | 0          | 0           |
| 3                    | SWMH3 X     | U    | S   | 225                                    | 13/06/2019 | Vitrified clay     | 40.05 metres            | 40.05             |      | 0                  | 1     | 0          | 0           |
| 4                    | SWMH4 X     | D    | S   | 225                                    | 13/06/2019 | Vitrified clay     | 23.11 metres            | 23.11             |      | 0                  | 1     | 0          | 0           |
| 5                    | SWMH5 X     | D    | S   | 225                                    | 13/06/2019 | Vitrified clay     | 25.89 metres            | 25.89             |      | 10                 | 5     | 0.39       | 10          |
| 6                    | FWMH1 X     | U    | F   | 100                                    | 13/06/2019 | Cast iron          | 22.02 metres            | 22.02             |      | 0                  | 1     | 0          | 0           |
| 7                    | PUMP STATIX | U    | F   | 100                                    | 13/06/2019 | Cast iron          | 36.16 metres            | 36.16             |      | 0                  | 1     | 0          | 0           |
| 8                    | FWMH3 X     | D    | F   | 150                                    | 13/06/2019 | Cast iron          | 22.02 metres            | 22.02             |      | 0                  | 1     | 0          | 0           |
| 9                    | FWMH2 X     | U    | F   | 150                                    | 13/06/2019 | Cast iron          | 6.21 metres             | 6.21              |      | 0                  | 1     | 0          | 0           |
| 10                   | FWMH4 X     | U    | F   | 150                                    | 13/06/2019 | Cast iron          | 30.38 metres            | 30.38             |      | 0                  | 1     | 0          | 0           |
| 11                   | FWMH5 X     | D    | F   | 150                                    | 13/06/2019 | Cast iron          | 14.34 metres            | 14.34             |      | 0                  | 1     | 0          | 0           |
| 12                   | FWMH1B X    | D    | F   | 150                                    | 13/06/2019 | Vitrified clay     | 1.67 metres             | 1.67              |      | 0                  | 1     | 0          | 0           |
| 13                   | FWMH1A X    | D    | F   | 150                                    | 13/06/2019 | Vitrified clay     | 16.49 metres            | 16.49             |      | 0                  | 1     | 0          | 0           |
| 14                   | FWMH11 X    | U    | F   | 100                                    | 13/06/2019 | Vitrified clay     | 10.04 metres            | 10.04             |      | 0                  | 1     | 0          | 0           |
| 15                   | FWMH12 X    | U    | F   | 100                                    | 13/06/2019 | Vitrified clay     | 7.07 metres             | 7.07              |      | 0                  | 1     | 0          | 0           |
| 16                   | FWMH10 X    | D    | F   | 100                                    | 13/06/2019 | Vitrified clay     | 10.73 metres            | 10.73             |      | 0                  | 1     | 0          | 0           |
| 17                   | FWMH13 X    | U    | F   | 100                                    | 13/06/2019 | Vitrified clay     | 6.36 metres             | 6.36              |      | 0                  | 1     | 0          | 0           |
| 18                   | SWMH9 X     | U    | S   | 150                                    | 13/06/2019 | Vitrified clay     | 11.36 metres            | 11.36             |      | 0                  | 1     | 0          | 0           |
| 19                   | SWMH10 X    | D    | S   | 150                                    | 13/06/2019 | Vitrified clay     | 26.41 metres            | 26.41             |      | 0                  | 1     | 0          | 0           |
| 20                   | SWMH11 X    | U    | S   | 150                                    | 13/06/2019 | Vitrified clay     | 9.44 metres             | 9.44              |      | 0                  | 1     | 0          | 0           |
| 21                   | SWMH12 X    | D    | S   | 150                                    | 13/06/2019 | Vitrified clay     | 1.87 metres             | 1.87              |      | 0                  | 1     | 0          | 0           |
| 22                   | SWMH15 X    | U    | S   | 225                                    | 13/06/2019 | Vitrified clay     | 20.52 metres            | 20.52             |      | 0                  | 1     | 0          | 0           |
| 23                   | SWMH14 X    | D    | S   | 225                                    | 13/06/2019 | Vitrified clay     | 32.75 metres            | 32.75             |      | 0                  | 1     | 0          | 0           |
| 24                   | FWMH14 X    | U    | F   | 100                                    | 13/06/2019 | Cast iron          | 27.49 metres            | 27.49             |      | 0                  | 1     | 0          | 0           |
| 25                   | FWMH15 X    | D    | F   | 100                                    | 13/06/2019 | Cast iron          | 36.31 metres            | 36.31             |      | 0                  | 1     | 0          | 0           |
| 26                   | FWMH22 X    | U    | F   | 100                                    | 13/06/2019 | Polyvinyl chloride | 4.95 metres             | 4.95              |      | 0                  | 1     | 0          | 0           |
| 27                   | FWMH21 X    | D    | F   | 100                                    | 13/06/2019 | Liner              | 18.81 metres            | 18.81             |      | 0                  | 1     | 0          | 0           |
| 28                   | SWMH17 X    | D    | S   | 100                                    | 13/06/2019 | Polyvinyl chloride | 12.69 metres            | 12.69             |      | 0                  | 1     | 0          | 0           |
| 29                   | SWMH16 X    | U    | S   | 225                                    | 13/06/2019 | Vitrified clay     | 0 metres                | 29.64             |      | 0                  | 1     | 0          | 0           |

# Service Defects (SRM 4)

| Job Number<br>780878 |          |      |     | Surveyed by (Operator)<br>PAUL BAYNHAM |            | Base Unit<br>DDFRT6A12S |              |                   | Date<br>13/06/2019 |            |       |            |             |
|----------------------|----------|------|-----|----------------------------------------|------------|-------------------------|--------------|-------------------|--------------------|------------|-------|------------|-------------|
| No.                  | PLR      | Dir. | Use | Shape/Size                             | Date       | Mat.                    | Total Length | Inspection Length | Cat.               | Peak Score | Grade | Mean Score | Total Score |
| 30                   | SWMH7 X  | D    | S   | 300                                    | 13/06/2019 | Vitrified clay          | 8.95 metres  | 8.95              |                    | 0          | 1     | 0          | 0           |
| 31                   | SWMH8 X  | D    | S   | 300                                    | 13/06/2019 | Vitrified clay          | 26.43 metres | 26.43             |                    | 0          | 1     | 0          | 0           |
| 32                   | SWMH18 X | D    | S   | 300                                    | 13/06/2019 | Vitrified clay          | 28.02 metres | 28.02             |                    | 0          | 1     | 0          | 0           |
| 33                   | SWMH19 X | D    | S   | 300                                    | 13/06/2019 | Vitrified clay          | 49.11 metres | 49.11             |                    | 0          | 1     | 0          | 0           |
| 34                   | FWMH6 X  | U    | F   | 150                                    | 13/06/2019 | Cast iron               | 7.13 metres  | 7.13              |                    | 0          | 1     | 0          | 0           |
| 35                   | FWMH7 X  | D    | F   | 150                                    | 13/06/2019 | Cast iron               | 42.9 metres  | 42.9              |                    | 0          | 1     | 0          | 0           |
| 36                   | FWMH8 X  | D    | F   | 100                                    | 13/06/2019 | Liner                   | 6.23 metres  | 6.23              |                    | 0          | 1     | 0          | 0           |
| 37                   | FWMH20 X | U    | F   | 100                                    | 13/06/2019 | Liner                   | 25.31 metres | 25.31             |                    | 0          | 1     | 0          | 0           |
| 38                   | FWMH19 X | U    | F   | 100                                    | 13/06/2019 | Vitrified clay          | 9.16 metres  | 9.16              |                    | 0          | 1     | 0          | 0           |
| 39                   | FWMH16 X | D    | F   | 100                                    | 13/06/2019 | Vitrified clay          | 25.72 metres | 25.72             |                    | 0          | 1     | 0          | 0           |
| 40                   | FWMH17 X | U    | F   | 100                                    | 13/06/2019 | Vitrified clay          | 14.52 metres | 14.52             |                    | 4          | 3     | 0.28       | 4           |
| 41                   | FWMH18 X | D    | F   | 100                                    | 13/06/2019 | Polyvinyl chloride      | 11.75 metres | 11.75             |                    | 0          | 1     | 0          | 0           |
| 42                   | FWMH23 X | U    | F   | 100                                    | 13/06/2019 | Vitrified clay          | 4.51 metres  | 4.51              |                    | 0          | 1     | 0          | 0           |
| 43                   | FWMH23 X | U    | F   | 100                                    | 13/06/2019 | Vitrified clay          | 31.98 metres | 31.98             |                    | 0          | 1     | 0          | 0           |
| 44                   | FWMH9 X  | U    | F   | 150                                    | 13/06/2019 | Cast iron               | 48 metres    | 48                |                    | 0          | 1     | 0          | 0           |
| 45                   | FWMH25 X | D    | F   | 150                                    | 13/06/2019 | Cast iron               | 81.08 metres | 81.08             |                    | 0          | 1     | 0          | 0           |
| 46                   | FWMH24 X | D    | F   | 100                                    | 13/06/2019 | Vitrified clay          | 11.82 metres | 11.82             |                    | 0          | 1     | 0          | 0           |
| 47                   | SWMH6 X  | U    | S   | 150                                    | 13/06/2019 | Vitrified clay          | 8.57 metres  | 8.57              |                    | 0          | 1     | 0          | 0           |
| 48                   | FWMH27 X | D    | F   | 100                                    | 13/06/2019 | Polyvinyl chloride      | 16 metres    | 16                |                    | 0          | 1     | 0          | 0           |

## Report Summary

|                             |                                               |                                |                           |
|-----------------------------|-----------------------------------------------|--------------------------------|---------------------------|
| Job Number<br><b>780878</b> | Surveyed by (Operator)<br><b>PAUL BAYNHAM</b> | Base Unit<br><b>DDFRT6A12S</b> | Date<br><b>13/06/2019</b> |
|-----------------------------|-----------------------------------------------|--------------------------------|---------------------------|

### Job Information

Total Distance Surveyed: **966.1 metres**  
 Engineer: **PAUL BAYNHAM**  
 Number of Surveys: **48**  
 Number of Surveys grade 4 or above: **2**

### Section 1 Overview (13/06/2019)

Manholes: **SWMH2 to SWMH1**  
 Pipe Length: **14.1 metres**  
 Structural Grade: **0**  
 Service Grade: **0**  
 Material: **Vitrified clay**  
 Pipe Size: **150mm**  
 Use: **Surface water**

### Section 2 Overview (13/06/2019)

Manholes: **SWMH2 to SWMH3**  
 Pipe Length: **19.67 metres**  
 Structural Grade: **0**  
 Service Grade: **0**  
 Material: **Vitrified clay**  
 Pipe Size: **150mm**  
 Use: **Surface water**

### Section 3 Overview (13/06/2019)

Manholes: **SWMH4 to SWMH3**  
 Pipe Length: **40.05 metres**  
 Structural Grade: **0**  
 Service Grade: **0**  
 Material: **Vitrified clay**  
 Pipe Size: **225mm**  
 Use: **Surface water**

### Section 4 Overview (13/06/2019)

Manholes: **SWMH4 to SWMH5**  
 Pipe Length: **23.11 metres**  
 Structural Grade: **0**  
 Service Grade: **0**  
 Material: **Vitrified clay**  
 Pipe Size: **225mm**  
 Use: **Surface water**

### Section 5 Overview (13/06/2019)

Manholes: **SWMH5 to SWMH18**  
 Pipe Length: **25.89 metres**  
 Structural Grade: **0**  
 Service Grade: **5**  
 Material: **Vitrified clay**  
 Pipe Size: **225mm**  
 Use: **Surface water**

## Report Summary

| Job Number<br><b>780878</b>                                                                                                                                                                                                                                | Surveyed by (Operator)<br><b>PAUL BAYNHAM</b> | Base Unit<br><b>DDFRT6A12S</b> | Date<br><b>13/06/2019</b> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------|---------------------------|
| <b>Section 6 Overview (13/06/2019)</b><br>Manholes: <b>FWMH2 to FWMH1</b><br>Pipe Length: <b>22.02 metres</b><br>Structural Grade: <b>0</b><br>Service Grade: <b>0</b><br>Material: <b>Cast iron</b><br>Pipe Size: <b>100mm</b><br>Use: <b>Foul</b>        |                                               |                                |                           |
| <b>Section 7 Overview (13/06/2019)</b><br>Manholes: <b>FWMH1 to PUMP STATION</b><br>Pipe Length: <b>36.16 metres</b><br>Structural Grade: <b>0</b><br>Service Grade: <b>0</b><br>Material: <b>Cast iron</b><br>Pipe Size: <b>100mm</b><br>Use: <b>Foul</b> |                                               |                                |                           |
| <b>Section 8 Overview (13/06/2019)</b><br>Manholes: <b>FWMH3 to FWMH4</b><br>Pipe Length: <b>22.02 metres</b><br>Structural Grade: <b>0</b><br>Service Grade: <b>0</b><br>Material: <b>Cast iron</b><br>Pipe Size: <b>150mm</b><br>Use: <b>Foul</b>        |                                               |                                |                           |
| <b>Section 9 Overview (13/06/2019)</b><br>Manholes: <b>FWMH3 to FWMH2</b><br>Pipe Length: <b>6.21 metres</b><br>Structural Grade: <b>0</b><br>Service Grade: <b>0</b><br>Material: <b>Cast iron</b><br>Pipe Size: <b>150mm</b><br>Use: <b>Foul</b>         |                                               |                                |                           |
| <b>Section 10 Overview (13/06/2019)</b><br>Manholes: <b>FWMH5 to FWMH4</b><br>Pipe Length: <b>30.38 metres</b><br>Structural Grade: <b>0</b><br>Service Grade: <b>0</b><br>Material: <b>Cast iron</b><br>Pipe Size: <b>150mm</b><br>Use: <b>Foul</b>       |                                               |                                |                           |
| <b>Section 11 Overview (13/06/2019)</b><br>Manholes: <b>FWMH5 to FWMH6</b><br>Pipe Length: <b>14.34 metres</b><br>Structural Grade: <b>0</b><br>Service Grade: <b>0</b><br>Material: <b>Cast iron</b><br>Pipe Size: <b>150mm</b><br>Use: <b>Foul</b>       |                                               |                                |                           |

## Report Summary

| Job Number<br><b>780878</b>                                                                                                                                                                                                                                       | Surveyed by (Operator)<br><b>PAUL BAYNHAM</b> | Base Unit<br><b>DDFRT6A12S</b> | Date<br><b>13/06/2019</b> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------|---------------------------|
| <b>Section 12 Overview (14/06/2019)</b><br>Manholes: <b>FWMH1B to PUMP STATION</b><br>Pipe Length: <b>1.67 metres</b><br>Structural Grade: <b>3</b><br>Service Grade: <b>0</b><br>Material: <b>Vitrified clay</b><br>Pipe Size: <b>150mm</b><br>Use: <b>Foul</b>  |                                               |                                |                           |
| <b>Section 13 Overview (14/06/2019)</b><br>Manholes: <b>FWMH1A to PUMP STATION</b><br>Pipe Length: <b>16.49 metres</b><br>Structural Grade: <b>2</b><br>Service Grade: <b>0</b><br>Material: <b>Vitrified clay</b><br>Pipe Size: <b>150mm</b><br>Use: <b>Foul</b> |                                               |                                |                           |
| <b>Section 14 Overview (14/06/2019)</b><br>Manholes: <b>FWMH10 to FWMH11</b><br>Pipe Length: <b>10.04 metres</b><br>Structural Grade: <b>0</b><br>Service Grade: <b>0</b><br>Material: <b>Vitrified clay</b><br>Pipe Size: <b>100mm</b><br>Use: <b>Foul</b>       |                                               |                                |                           |
| <b>Section 15 Overview (14/06/2019)</b><br>Manholes: <b>FWMH11 to FWMH12</b><br>Pipe Length: <b>7.07 metres</b><br>Structural Grade: <b>0</b><br>Service Grade: <b>0</b><br>Material: <b>Vitrified clay</b><br>Pipe Size: <b>100mm</b><br>Use: <b>Foul</b>        |                                               |                                |                           |
| <b>Section 16 Overview (14/06/2019)</b><br>Manholes: <b>FWMH10 to FWMH9</b><br>Pipe Length: <b>10.73 metres</b><br>Structural Grade: <b>3</b><br>Service Grade: <b>0</b><br>Material: <b>Vitrified clay</b><br>Pipe Size: <b>100mm</b><br>Use: <b>Foul</b>        |                                               |                                |                           |
| <b>Section 17 Overview (14/06/2019)</b><br>Manholes: <b>FWMH12 to FWMH13</b><br>Pipe Length: <b>6.36 metres</b><br>Structural Grade: <b>0</b><br>Service Grade: <b>0</b><br>Material: <b>Vitrified clay</b><br>Pipe Size: <b>100mm</b><br>Use: <b>Foul</b>        |                                               |                                |                           |

## Report Summary

| Job Number<br><b>780878</b>                                                                                                                                                                                                                                          | Surveyed by (Operator)<br><b>PAUL BAYNHAM</b> | Base Unit<br><b>DDFRT6A12S</b> | Date<br><b>13/06/2019</b> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------|---------------------------|
| <b>Section 18 Overview (17/06/2019)</b><br>Manholes: <b>SWMH10 to SWMH9</b><br>Pipe Length: <b>11.36 metres</b><br>Structural Grade: <b>4</b><br>Service Grade: <b>0</b><br>Material: <b>Vitrified clay</b><br>Pipe Size: <b>150mm</b><br>Use: <b>Surface water</b>  |                                               |                                |                           |
| <b>Section 19 Overview (17/06/2019)</b><br>Manholes: <b>SWMH10 to SWMH11</b><br>Pipe Length: <b>26.41 metres</b><br>Structural Grade: <b>0</b><br>Service Grade: <b>0</b><br>Material: <b>Vitrified clay</b><br>Pipe Size: <b>150mm</b><br>Use: <b>Surface water</b> |                                               |                                |                           |
| <b>Section 20 Overview (17/06/2019)</b><br>Manholes: <b>SWMH12 to SWMH11</b><br>Pipe Length: <b>9.44 metres</b><br>Structural Grade: <b>0</b><br>Service Grade: <b>0</b><br>Material: <b>Vitrified clay</b><br>Pipe Size: <b>150mm</b><br>Use: <b>Surface water</b>  |                                               |                                |                           |
| <b>Section 21 Overview (17/06/2019)</b><br>Manholes: <b>SWMH12 to RWP</b><br>Pipe Length: <b>1.87 metres</b><br>Structural Grade: <b>0</b><br>Service Grade: <b>0</b><br>Material: <b>Vitrified clay</b><br>Pipe Size: <b>150mm</b><br>Use: <b>Surface water</b>     |                                               |                                |                           |
| <b>Section 22 Overview (17/06/2019)</b><br>Manholes: <b>SWMH14 to SWMH15</b><br>Pipe Length: <b>20.52 metres</b><br>Structural Grade: <b>0</b><br>Service Grade: <b>0</b><br>Material: <b>Vitrified clay</b><br>Pipe Size: <b>225mm</b><br>Use: <b>Surface water</b> |                                               |                                |                           |
| <b>Section 23 Overview (17/06/2019)</b><br>Manholes: <b>SWMH14 to SWMH16</b><br>Pipe Length: <b>32.75 metres</b><br>Structural Grade: <b>0</b><br>Service Grade: <b>0</b><br>Material: <b>Vitrified clay</b><br>Pipe Size: <b>225mm</b><br>Use: <b>Surface water</b> |                                               |                                |                           |

## Report Summary

| Job Number<br><b>780878</b>                                                                                                                                                                                                                                             | Surveyed by (Operator)<br><b>PAUL BAYNHAM</b> | Base Unit<br><b>DDFRT6A12S</b> | Date<br><b>13/06/2019</b> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------|---------------------------|
| <b>Section 24 Overview (17/06/2019)</b><br>Manholes: <b>FWMH15 to FWMH14</b><br>Pipe Length: <b>27.49 metres</b><br>Structural Grade: <b>0</b><br>Service Grade: <b>0</b><br>Material: <b>Cast iron</b><br>Pipe Size: <b>100mm</b><br>Use: <b>Foul</b>                  |                                               |                                |                           |
| <b>Section 25 Overview (17/06/2019)</b><br>Manholes: <b>FWMH15 to FWMH3</b><br>Pipe Length: <b>36.31 metres</b><br>Structural Grade: <b>0</b><br>Service Grade: <b>0</b><br>Material: <b>Cast iron</b><br>Pipe Size: <b>100mm</b><br>Use: <b>Foul</b>                   |                                               |                                |                           |
| <b>Section 26 Overview (17/06/2019)</b><br>Manholes: <b>FWMH21 to FWMH22</b><br>Pipe Length: <b>4.95 metres</b><br>Structural Grade: <b>0</b><br>Service Grade: <b>0</b><br>Material: <b>Polyvinyl chloride</b><br>Pipe Size: <b>100mm</b><br>Use: <b>Foul</b>          |                                               |                                |                           |
| <b>Section 27 Overview (17/06/2019)</b><br>Manholes: <b>FWMH21 to FWMH20</b><br>Pipe Length: <b>18.81 metres</b><br>Structural Grade: <b>0</b><br>Service Grade: <b>0</b><br>Material: <b>Liner</b><br>Pipe Size: <b>100mm</b><br>Use: <b>Foul</b>                      |                                               |                                |                           |
| <b>Section 28 Overview (17/06/2019)</b><br>Manholes: <b>SWMH17 to SWMH6</b><br>Pipe Length: <b>12.69 metres</b><br>Structural Grade: <b>0</b><br>Service Grade: <b>0</b><br>Material: <b>Polyvinyl chloride</b><br>Pipe Size: <b>100mm</b><br>Use: <b>Surface water</b> |                                               |                                |                           |
| <b>Section 29 Overview (17/06/2019)</b><br>Manholes: <b>SWMH7 to SWMH16</b><br>Pipe Length: <b>0 metres</b><br>Structural Grade: <b>0</b><br>Service Grade:<br>Material: <b>Vitrified clay</b><br>Pipe Size: <b>225mm</b><br>Use: <b>Surface water</b>                  |                                               |                                |                           |

## Report Summary

| Job Number<br><b>780878</b>                                                                                                                                                                                                                                          | Surveyed by (Operator)<br><b>PAUL BAYNHAM</b> | Base Unit<br><b>DDFRT6A12S</b> | Date<br><b>13/06/2019</b> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------|---------------------------|
| <b>Section 30 Overview (18/06/2019)</b><br>Manholes: <b>SWMH7 to SWMH8</b><br>Pipe Length: <b>8.95 metres</b><br>Structural Grade: <b>0</b><br>Service Grade: <b>0</b><br>Material: <b>Vitrified clay</b><br>Pipe Size: <b>300mm</b><br>Use: <b>Surface water</b>    |                                               |                                |                           |
| <b>Section 31 Overview (18/06/2019)</b><br>Manholes: <b>SWMH8 to SWMH18</b><br>Pipe Length: <b>26.43 metres</b><br>Structural Grade: <b>0</b><br>Service Grade: <b>0</b><br>Material: <b>Vitrified clay</b><br>Pipe Size: <b>300mm</b><br>Use: <b>Surface water</b>  |                                               |                                |                           |
| <b>Section 32 Overview (18/06/2019)</b><br>Manholes: <b>SWMH18 to SWMH19</b><br>Pipe Length: <b>28.02 metres</b><br>Structural Grade: <b>0</b><br>Service Grade: <b>0</b><br>Material: <b>Vitrified clay</b><br>Pipe Size: <b>300mm</b><br>Use: <b>Surface water</b> |                                               |                                |                           |
| <b>Section 33 Overview (18/06/2019)</b><br>Manholes: <b>SWMH19 to LAKE</b><br>Pipe Length: <b>49.11 metres</b><br>Structural Grade: <b>0</b><br>Service Grade: <b>0</b><br>Material: <b>Vitrified clay</b><br>Pipe Size: <b>300mm</b><br>Use: <b>Surface water</b>   |                                               |                                |                           |
| <b>Section 34 Overview (18/06/2019)</b><br>Manholes: <b>FWMH7 to FWMH6</b><br>Pipe Length: <b>7.13 metres</b><br>Structural Grade: <b>0</b><br>Service Grade: <b>0</b><br>Material: <b>Cast iron</b><br>Pipe Size: <b>150mm</b><br>Use: <b>Foul</b>                  |                                               |                                |                           |
| <b>Section 35 Overview (18/06/2019)</b><br>Manholes: <b>FWMH7 to FWMH9</b><br>Pipe Length: <b>42.9 metres</b><br>Structural Grade: <b>0</b><br>Service Grade: <b>0</b><br>Material: <b>Cast iron</b><br>Pipe Size: <b>150mm</b><br>Use: <b>Foul</b>                  |                                               |                                |                           |

## Report Summary

| Job Number<br><b>780878</b>                                                                                                                                                                                                                                     | Surveyed by (Operator)<br><b>PAUL BAYNHAM</b> | Base Unit<br><b>DDFRT6A12S</b> | Date<br><b>13/06/2019</b> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------|---------------------------|
| <b>Section 36 Overview (18/06/2019)</b><br>Manholes: <b>FWMH8 to FWMH7</b><br>Pipe Length: <b>6.23 metres</b><br>Structural Grade: <b>0</b><br>Service Grade: <b>0</b><br>Material: <b>Liner</b><br>Pipe Size: <b>100mm</b><br>Use: <b>Foul</b>                 |                                               |                                |                           |
| <b>Section 37 Overview (18/06/2019)</b><br>Manholes: <b>FWMH8 to FWMH20</b><br>Pipe Length: <b>25.31 metres</b><br>Structural Grade: <b>0</b><br>Service Grade: <b>0</b><br>Material: <b>Liner</b><br>Pipe Size: <b>100mm</b><br>Use: <b>Foul</b>               |                                               |                                |                           |
| <b>Section 38 Overview (18/06/2019)</b><br>Manholes: <b>FWMH16 to FWMH19</b><br>Pipe Length: <b>9.16 metres</b><br>Structural Grade: <b>0</b><br>Service Grade: <b>0</b><br>Material: <b>Vitrified clay</b><br>Pipe Size: <b>100mm</b><br>Use: <b>Foul</b>      |                                               |                                |                           |
| <b>Section 39 Overview (18/06/2019)</b><br>Manholes: <b>FWMH16 to FWMH23</b><br>Pipe Length: <b>25.72 metres</b><br>Structural Grade: <b>0</b><br>Service Grade: <b>0</b><br>Material: <b>Vitrified clay</b><br>Pipe Size: <b>100mm</b><br>Use: <b>Foul</b>     |                                               |                                |                           |
| <b>Section 40 Overview (18/06/2019)</b><br>Manholes: <b>FWMH16 to FWMH17</b><br>Pipe Length: <b>14.52 metres</b><br>Structural Grade: <b>0</b><br>Service Grade: <b>3</b><br>Material: <b>Vitrified clay</b><br>Pipe Size: <b>100mm</b><br>Use: <b>Foul</b>     |                                               |                                |                           |
| <b>Section 41 Overview (18/06/2019)</b><br>Manholes: <b>FWMH18 to FWMH17</b><br>Pipe Length: <b>11.75 metres</b><br>Structural Grade: <b>0</b><br>Service Grade: <b>0</b><br>Material: <b>Polyvinyl chloride</b><br>Pipe Size: <b>100mm</b><br>Use: <b>Foul</b> |                                               |                                |                           |

## Report Summary

| Job Number<br><b>780878</b>                                                                                                                                                                                                                                        | Surveyed by (Operator)<br><b>PAUL BAYNHAM</b> | Base Unit<br><b>DDFRT6A12S</b> | Date<br><b>13/06/2019</b> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------|---------------------------|
| <b>Section 42 Overview (20/06/2019)</b><br>Manholes: <b>FWMH20 to FWMH23</b><br>Pipe Length: <b>4.51 metres</b><br>Structural Grade: <b>0</b><br>Service Grade: <b>0</b><br>Material: <b>Vitrified clay</b><br>Pipe Size: <b>100mm</b><br>Use: <b>Foul</b>         |                                               |                                |                           |
| <b>Section 43 Overview (20/06/2019)</b><br>Manholes: <b>FWMH20 to FWMH23</b><br>Pipe Length: <b>31.98 metres</b><br>Structural Grade: <b>0</b><br>Service Grade: <b>0</b><br>Material: <b>Vitrified clay</b><br>Pipe Size: <b>100mm</b><br>Use: <b>Foul</b>        |                                               |                                |                           |
| <b>Section 44 Overview (20/06/2019)</b><br>Manholes: <b>FWMH25 to FWMH9</b><br>Pipe Length: <b>48 metres</b><br>Structural Grade: <b>0</b><br>Service Grade: <b>0</b><br>Material: <b>Cast iron</b><br>Pipe Size: <b>150mm</b><br>Use: <b>Foul</b>                 |                                               |                                |                           |
| <b>Section 45 Overview (20/06/2019)</b><br>Manholes: <b>FWMH25 to FWMH26</b><br>Pipe Length: <b>81.08 metres</b><br>Structural Grade: <b>0</b><br>Service Grade: <b>0</b><br>Material: <b>Cast iron</b><br>Pipe Size: <b>150mm</b><br>Use: <b>Foul</b>             |                                               |                                |                           |
| <b>Section 46 Overview (20/06/2019)</b><br>Manholes: <b>FWMH24 to FWMH19</b><br>Pipe Length: <b>11.82 metres</b><br>Structural Grade: <b>0</b><br>Service Grade: <b>0</b><br>Material: <b>Vitrified clay</b><br>Pipe Size: <b>100mm</b><br>Use: <b>Foul</b>        |                                               |                                |                           |
| <b>Section 47 Overview (20/06/2019)</b><br>Manholes: <b>SWMH18 to SWMH6</b><br>Pipe Length: <b>8.57 metres</b><br>Structural Grade: <b>5</b><br>Service Grade: <b>0</b><br>Material: <b>Vitrified clay</b><br>Pipe Size: <b>150mm</b><br>Use: <b>Surface water</b> |                                               |                                |                           |

## Report Summary

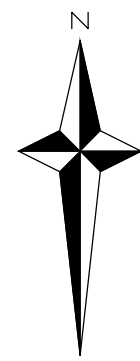
|                             |                                               |                                |                           |
|-----------------------------|-----------------------------------------------|--------------------------------|---------------------------|
| Job Number<br><b>780878</b> | Surveyed by (Operator)<br><b>PAUL BAYNHAM</b> | Base Unit<br><b>DDFRT6A12S</b> | Date<br><b>13/06/2019</b> |
|-----------------------------|-----------------------------------------------|--------------------------------|---------------------------|

### Section 48 Overview (21/06/2019)

Manholes: **FWMH27 to TANK**  
 Pipe Length: **16 metres**  
 Structural Grade: **0**  
 Service Grade: **0**  
 Material: **Polyvinyl chloride**  
 Pipe Size: **100mm**  
 Use: **Foul**

## **Appendix K**

### **Foul Water Drainage Catchment Plan**



- NOTES
1. This drawing to be read in conjunction with all relevant documents and specifications.
  2. Dimensions are scalable for 'Planning' purposes only.
  3. Any discrepancies found between information shown on this or any other drawing shall be reported to the Engineer immediately and prior to works commencing on site.
  4. Site layout provided by BHP Harwood Architects, drawing no. 3251.P.104, Rev AH, dated February 2024.
- KEY

- Catchment A - New direct gravity connection to Thames Water sewer in Peppard Road
- Catchment B - Existing/ Indirect private gravity connection to Thames Water sewer to be re-used.
- Catchment C - New indirect pumped connection to Thames Water sewer

|      |                                                |                          |      |
|------|------------------------------------------------|--------------------------|------|
| P6   | Updated to suit the Architect's latest layout. | 26/02/2024<br>A. Persins | JH   |
| P5   | Care Home moved to Catchment A.                | 30/06/2023<br>A. Persins | AP   |
| P4   | Updated to suit the Architect's latest layout. | 16/06/2023<br>A. Persins | AP   |
| P3   | Updated to suit the Architect's latest layout. | 05/12/2022<br>K. Hulse   | AP   |
| P2   | Updated to suit the Architect's latest layout. | —<br>A. Persins          | JH   |
| P1   | First issue for PLANNING.                      | 10/12/2021<br>A. Persins | JH   |
| Rev. | Description                                    | Date                     | Chkd |

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postbox@glanvillegroup.com www.glanvillegroup.com

Client :  
Beechcroft Developments Ltd

Project :  
Caversham Park  
Peppard Road, Reading  
RG4 8TZ

Title :  
Proposed Foul Drainage Catchment Plan

Project Engineer : A. Persins Scale : 1:250 @ A1  
Project Director : J. Hanlon Date : December 2022  
Status : PLANNING

Drawing No. 8210940-SK07 Rev P6

## **Appendix L**

### **Correspondence with Thames Water**



Mr Aleksejs Persins

Glanville Consultants  
Cornerstone House  
62 Foxhall Road  
Didcot  
Oxfordshire  
OX11 7AD



23 December 2021

## Pre-planning enquiry: Capacity concerns

**Site: Caversham Park, Reading, Berkshire, RG4 8TZ**

Dear Aleks

Thank you for providing information on your development.

*Connect to Thames Water foul sewer under Peppard Road at two locations:*

*Catchments A & C into public manhole 1301 in front of the site access in Peppard Road. Foul water from Catchment C to be pumped into chamber at the head of the run of Catchment A and discharged into Thames Water sewer by gravity. Planning 33 living units in Catchment A (21 houses and 12 flats) & 53 units (41 houses and 12 flats) in Catchment C.*

*Catchment B will be connected to the existing private, which appears to connect onto public at Peppard Road.*

We have completed the assessment of the foul water flows and surface water run-off based on the information submitted in your application with the purpose of assessing sewerage capacity within the existing Thames Water sewer network.

### Foul Water

We've assessed your **foul water** proposals but unfortunately we're unable to meet the needs of your development at this time.

In order to ensure we make the appropriate upgrades – or 'off-site reinforcement' – to serve the remainder of your development, we'll need to carry out modelling work, design a solution and build the necessary improvements. This work is done at our cost.

Once we've begun modelling, we may need to contact you to discuss changing the connection point for capacity reasons. Please note that we'll pay the cost of covering any extra distance if the connection needs to be made at a point further away than the nearest practicable point of at least the same diameter.

### How long could modelling and reinforcement take?

Typical timescales for a development of your size are:

Modelling: 8 months  
Design: 6 months  
Construction: 6 months  
Total: 20 months

If the time you're likely to take from planning and construction through to first occupancy is longer than this, we'll be able to carry out the necessary upgrades in time for your development. If it's shorter, please contact me on the number below to discuss the timing of our activities.

### What do you need to tell us before we start modelling?

We will only carry out modelling once we're confident that your development will proceed. In order to have this confidence, we'll need to know that you **own the land and have either outline or full planning permission**. Please email this information to us as soon as you have it.

If you'd like us to start modelling work ahead of this point, we can do this if you agree to underwrite the cost of modelling and design. That means we'll fund the work – but you agree to pay the cost if you don't achieve first occupancy within five years.

If the modelling shows we need to carry out reinforcement work, then before we start construction we'll need you to supply us with notification that you've confirmed your F10 – Notification of construction project - submission to the Health and Safety Executive.

### Surface Water

In accordance with the Building Act 2000 Clause H3.3, positive connection of surface water to a public sewer will only be consented when it can be demonstrated that the hierarchy of disposal methods have been examined and proven to be impracticable. Before we can consider your surface water needs, you'll need written approval from the lead local flood authority that you have followed the sequential approach to the disposal of surface water and considered all practical means.

The disposal hierarchy being:

- 1) rainwater use as a resource (for example rainwater harvesting, blue roofs for irrigation)
- 2) rainwater infiltration to ground at or close to source
- 3) rainwater attenuation in green infrastructure features for gradual release (for example green roofs, rain gardens)
- 4) rainwater discharge direct to a watercourse (unless not appropriate)
- 5) controlled rainwater discharge to a surface water sewer or drain
- 6) controlled rainwater discharge to a combined sewer.

Where connection to the public sewerage network is required to manage surface water flows we will accept these flows at a discharge rate in line with CIRIA's best practice guide on SuDS or that stated within the sites planning approval.

Please see the attached 'Planning your wastewater' leaflet for additional information.

### What do I need to do next?

If you've satisfied the points above, then you should compare your own timeline with the typical timescales we've suggested for our activities. If the time you're likely to take from planning and construction through to first occupancy is **more** than the total time we're likely to take, we'll be able to carry out the necessary upgrades in time for your development.

If it's **less** than this, you might want to ask us to start modelling earlier – in which case we'll require you to underwrite the cost, as noted above.

If you've any further questions, please contact me on 07747 642978.

Yours sincerely

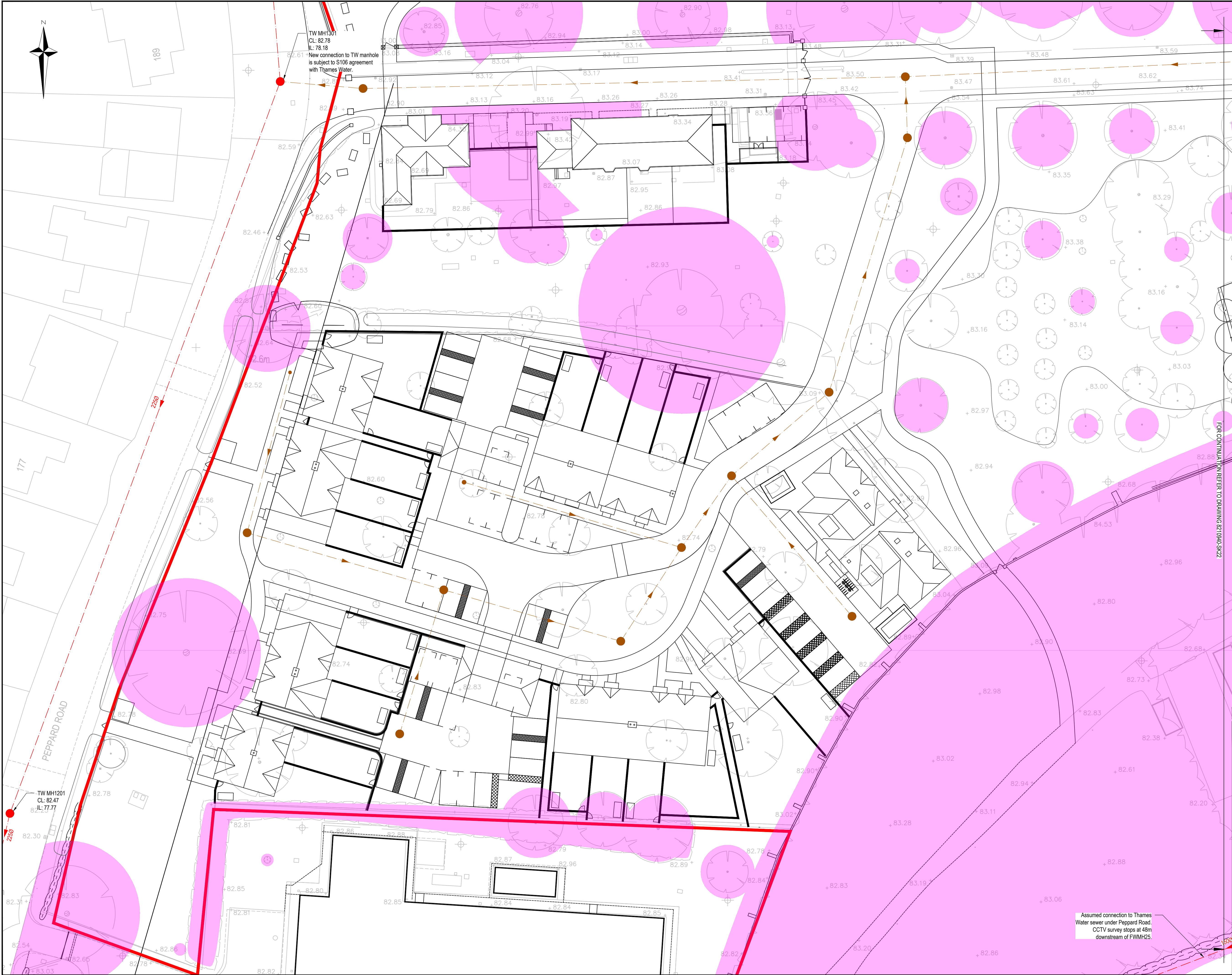
**Leigh Khan**

Adoption Engineer

Developer Services – Adoptions Engineer, Sewer Adoptions Team

## **Appendix M**

### **Indicative Foul Water Drainage Strategy**



KEY PLAN

NOTES

1. This drawing to be read in conjunction with all relevant documents and specifications.
2. Dimensions are scalable for 'Planning' purposes only.
3. Any discrepancies found between information shown on this or any other drawing shall be reported to the Engineer immediately and prior to works commencing on site.
4. Site layout provided by BHP Harwood Architects, drawing no. 3251.P.104, Rev AH, dated February 2024.
5. Topographical survey provided by Midland Survey Ltd.

KEY

PROPOSED DRAINAGE

- Foul water (FW) sewer
- FW manhole
- FW inspection chamber

EXISTING DRAINAGE

- Thames Water foul water (FW) sewer
- Thames Water FW manhole
- Tree root protection area

FOR CONTINUATION REFER TO DRAWING 8210940-SK22

|      |                                                |                          |      |
|------|------------------------------------------------|--------------------------|------|
| P6   | Updated to suit the Architect's latest layout. | 26/02/2024<br>A. Persins | JH   |
| P5   | Updated in line with Client's comments.        | 30/06/2023<br>A. Persins | JH   |
| P4   | Updated to suit the Architect's latest layout. | 16/06/2023<br>A. Persins | JH   |
| P3   | Updated to suit the Architect's latest layout. | 06/12/2022<br>A. Persins | JH   |
| P2   | Updated to suit the Architect's latest layout. | 08/03/2022<br>A. Persins | JH   |
| P1   | First issue for PLANNING.                      | 10/12/2021<br>A. Persins | JH   |
| Rev. | Description                                    | Date                     | Chkd |

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Client : Beechcroft Developments Ltd

Project : Caversham Park  
Peppard Road, Reading  
RG4 8TZ

Title : Indicative Foul Water Drainage Strategy  
Catchment A  
Sheet 1

Project Engineer : A. Persins Scale : 1:250 @ A1  
Project Director : J. Hanlon Date : December 2021  
Status : PLANNING

Drawing No. 8210940-SK21 Rev P6