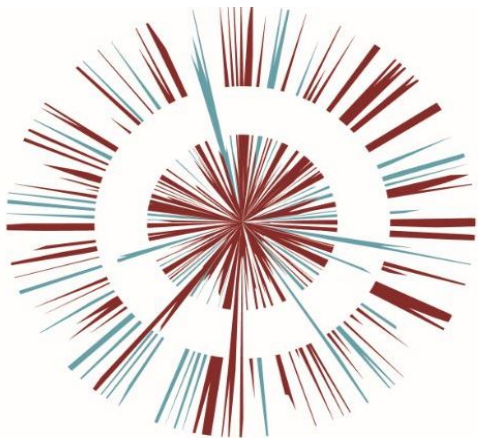




# OMEGA ZONE 8, ST HELENS

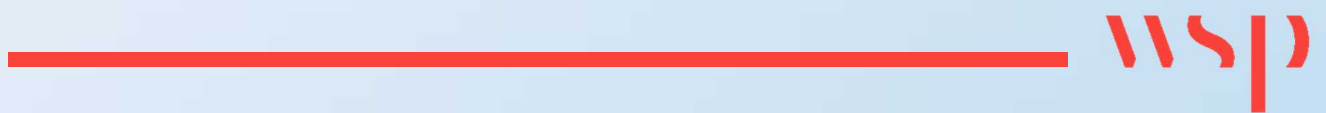
Omega St Helens Ltd / T. J. Morris Limited



Drainage Strategy  
Appendix D  
OPP DOC. 8.3

# Appendix D

## UNITED UTILITIES SEWER RECORDS





**WSP**

3 white rose office park  
millshaw park lane,  
leeds,  
ls11 0dl

**FAO:**

**How to contact us:**

**United Utilities Water Limited  
Property Searches  
Haweswater House  
Lingley Mere Business Park  
Great Sankey  
Warrington  
WA5 3LP**

**Telephone: 0370 7510101**

**E-mail: [propertysearches@uuplc.co.uk](mailto:propertysearches@uuplc.co.uk)**

**Your Ref: Omega 8  
Our Ref: UUPS-ORD-135906  
Date: 13/11/2019**

**Dear Sirs**

**Location: Omega Business park**

I acknowledge with thanks your request dated 13/11/2019 for information on the location of our services.

Please find enclosed plans showing the approximate position of United Utilities' apparatus known to be in the vicinity of this site.

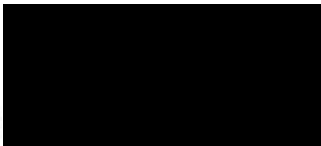
The enclosed plans are being provided to you subject to the United Utilities terms and conditions for both the wastewater and water distribution plans which are shown attached.

If you are planning works anywhere in the North West, please read United Utilities' access statement before you start work to check how it will affect our network. <http://www.unitedutilities.com/work-near-asset.aspx>.

I trust the above meets with your requirements and look forward to hearing from you should you need anything further.

If you have any queries regarding this matter please [contact us](#).

Yours Faithfully,



Karen McCormack  
Property Searches Manager

## **TERMS AND CONDITIONS - WASTEWATER AND WATER DISTRIBUTION PLANS**

These provisions apply to the public sewerage, water distribution and telemetry systems (including sewers which are the subject of an agreement under Section 104 of the Water Industry Act 1991 and mains installed in accordance with the agreement for the self construction of water mains) (UUWL apparatus) of United Utilities Water Limited "(UUWL)".

### **TERMS AND CONDITIONS:**

- This Map and any information supplied with it is issued subject to the provisions contained below, to the exclusion of all others and no party relies upon any representation, warranty, collateral contract or other assurance of any person (whether party to this agreement or not) that is not set out in this agreement or the documents referred to in it.
- This Map and any information supplied with it is provided for general guidance only and no representation, undertaking or warranty as to its accuracy, completeness or being up to date is given or implied.
- In particular, the position and depth of any UUWL apparatus shown on the Map are approximate only. UUWL strongly recommends that a comprehensive survey is undertaken in addition to reviewing this Map to determine and ensure the precise location of any UUWL apparatus. The exact location, positions and depths should be obtained by excavation trial holes.
- The location and position of private drains, private sewers and service pipes to properties are not normally shown on this Map but their presence must be anticipated and accounted for and you are strongly advised to carry out your own further enquiries and investigations in order to locate the same.
- The position and depth of UUWL apparatus is subject to change and therefore this Map is issued subject to any removal or change in location of the same. The onus is entirely upon you to confirm whether any changes to the Map have been made subsequent to issue and prior to any works being carried out.
- This Map and any information shown on it or provided with it must not be relied upon in the event of any development, construction or other works (including but not limited to any excavations) in the vicinity of UUWL apparatus or for the purpose of determining the suitability of a point of connection to the sewerage or other distribution systems.
- No person or legal entity, including any company shall be relieved from any liability howsoever and whensoever arising for any damage caused to UUWL apparatus by reason of the actual position and/or depths of UUWL apparatus being different from those shown on the Map and any information supplied with it.
- If any provision contained herein is or becomes legally invalid or unenforceable, it will be taken to be severed from the remaining provisions which shall be unaffected and continue in full force and affect.
- This agreement shall be governed by English law and all parties submit to the exclusive jurisdiction of the English courts, save that nothing will prevent UUWL from bringing proceedings in any other competent jurisdiction, whether concurrently or otherwise.





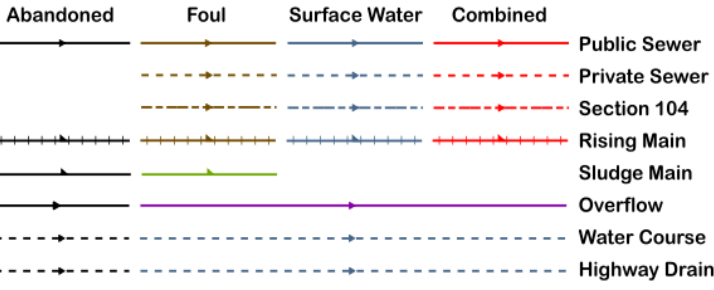
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Reho Cover Func Invert Size x Size y Shape Mat Length Grad

Reho Cover Func Invert Size x Size y Shape Mat Length Grad

LEGEND



All point assets follow the standard colour convention:  
red - combined  
blue - surface water  
brown - foul  
purple - overflow

- Manhole
- Head of System
- Extent of Survey
- Rodding Eye
- Inlet
- Discharge Point
- Vortex
- Penstock
- Washout Chamber
- Valve
- Air Valve
- Non Return Valve
- Soakaway
- Gully
- Cascade
- Flow Meter
- Hatch Box
- Oil Interceptor
- Summit
- Drop Shaft
- Orifice Plate
- Side Entry Manhole
- Outfall
- Screen Chamber
- Inspection Chamber
- Bifurcation Chamber
- Lamp Hole
- T Junction / Saddle
- Catchpit
- Valve Chamber
- Vent Column
- Vortex Chamber
- Penstock Chamber
- Network Storage Tank
- Sewer Overflow
- Ww Treatment Works
- Ww Pumping Station
- Septic Tank
- Control Kiosk
- Change of Characteristic

MANHOLE FUNCTION

- FO Foul
- SW Surface Water
- CO Combined
- OV Overflow

SEWER SHAPE

- CI Circular
- EG Egg
- OV Oval
- FT Flat Top
- RE Rectangular
- SQ Square
- TR Trapezoidal
- AR Arch
- BA Barrel
- HO HorseShoe
- UN Unspecified

SEWER MATERIAL

- AC Asbestos Cement
- BR Brick
- PE Polyethylene
- RP Reinforced Plastic Matrix
- CO Concrete
- CSB Concrete Segment Bolted
- CSU Concrete Segment Unbolted
- CC Concrete Box Culverted
- PSC Plastic / Steel Composite
- GRC Glass Reinforced Plastic
- DI Ductile Iron
- PVC Polyvinyl Chloride
- CI Cast Iron
- SI Spun Iron
- ST Steel
- VC Vitrified Clay
- PP Polypropylene
- PF Pitch Fibre
- MAC Masonry, Coursed
- MAR Masonry, Random
- U Unspecified

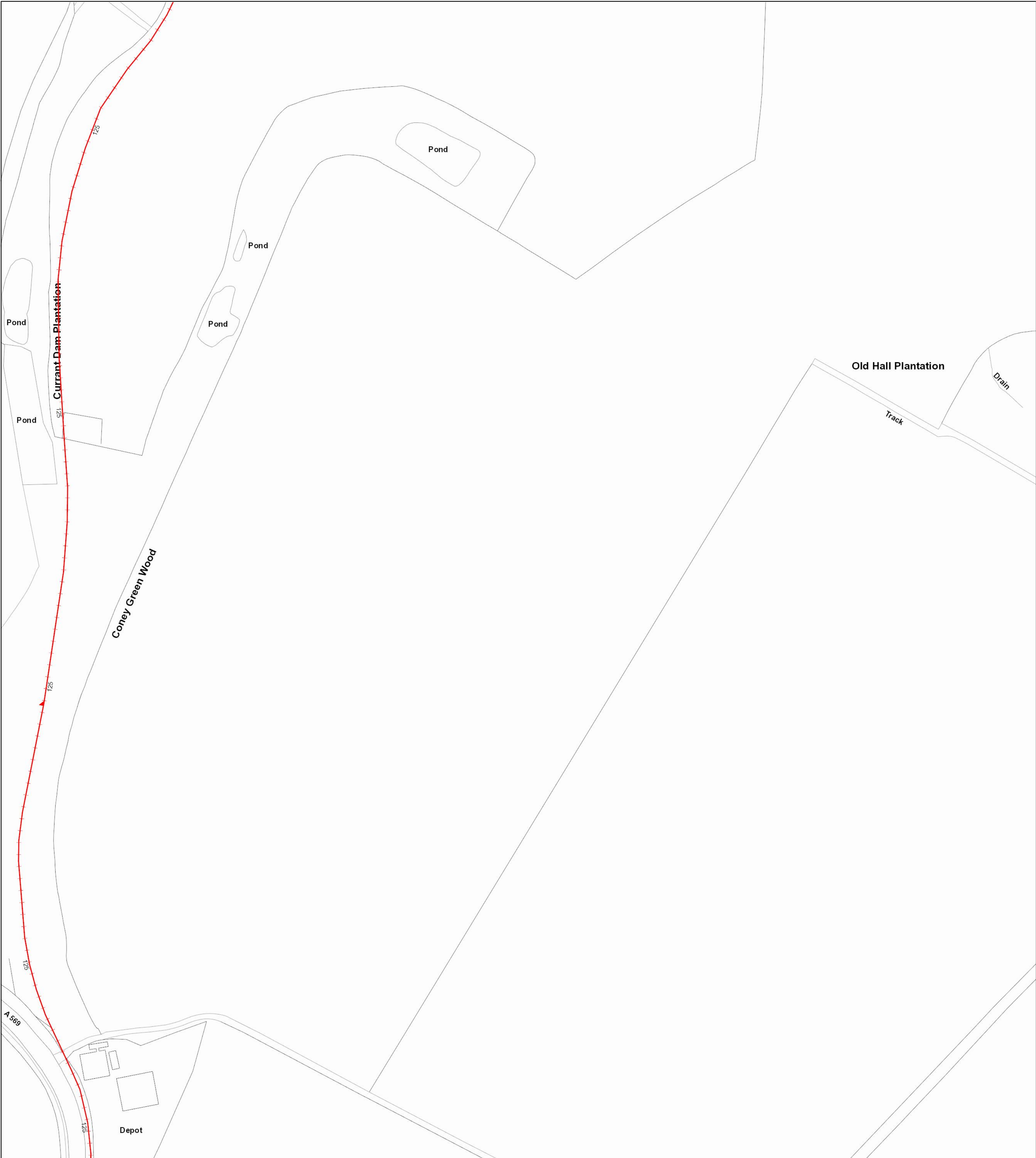
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Omega Business park,

OS sheet Number: SJ5390NE  
Scale: 1:1250  
Nodes: 0  
Date: 13/11/2019  
Sheet: 1 of 15

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Reho	Cover	Func	Invert	Size x	Size y	Shape	Matl	Length	Grad
------	-------	------	--------	--------	--------	-------	------	--------	------

LEGEND

Abandoned	Foul	Surface Water	Combined	Public Sewer
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----

All point assets follow the standard colour convention:  
red - combined  
blue - surface water  
brown - foul  
purple - overflow

Manhole	Side Entry Manhole
Head of System	Outfall
Extent of Survey	Screen Chamber
Rodding Eye	Inspection Chamber
Inlet	Bifurcation Chamber
Discharge Point	Lamp Hole
Vortex	T Junction / Saddle
Penstock	Catchpit
Washout Chamber	Valve Chamber
Valve	Vent Column
Air Valve	Vortex Chamber
Non Return Valve	Penstock Chamber
Soakaway	Network Storage Tank
Gully	Sewer Overflow
Cascade	Ww Treatment Works
Flow Meter	Ww Pumping Station
Hatch Box	Septic Tank
Oil Interceptor	Control Kiosk
Summit	
Drop Shaft	
Orifice Plate	

MANHOLE FUNCTION

FO	Foul
SW	Surface Water
CO	Combined
OV	Overflow

SEWER SHAPE

CI	Circular	TR	Trapezoidal
EG	Egg	AR	Arch
OV	Oval	BA	Barrel
FT	Flat Top	HO	HorseShoe
RE	Rectangular	UN	Unspecified
SQ	Square		

SEWER MATERIAL

AC	Asbestos Cement
BR	Brick
PE	Polyethylene
RP	Reinforced Plastic Matrix
CO	Concrete
CSB	Concrete Segment Bolted
CSU	Concrete Segment Unbolted
CC	Concrete Box Culvert
PSC	Plastic / Steel Composite
GRC	Glass Reinforced Plastic
DI	Ductile Iron
PVC	Polyvinyl Chloride
CI	Cast Iron
SI	Spun Iron
ST	Steel
VC	Vitrified Clay
PP	Polypropylene
PF	Pitch Fibre
MAC	Masonry, Coursed
MAR	Masonry, Random
U	Unspecified

Address or Site Reference:

Omega Business park,

OS sheet	SJ5390SE
Number:	
Scale: 1:1250	Date: 13/11/2019
Nodes: 0	
Sheet: 2 of 15	

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SEWER RECORDS

United Utilities  
helping life flow smoothly





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Reho	Cover	Func	Invert	Size x	Size y	Shape	Matl	Length	Grad
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LEGEND

Abandoned	Foul	Surface Water	Combined	Public Sewer
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----

All point assets follow the standard colour convention:  
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Manhole	Side Entry Manhole
Head of System	Outfall
Extent of Survey	Screen Chamber
Rodding Eye	Inspection Chamber
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Gully	Sewer Overflow
Cascade	Ww Treatment Works
Flow Meter	Ww Pumping Station
Hatch Box	Septic Tank
Oil Interceptor	Control Kiosk
Summit	
Drop Shaft	
Orifice Plate	

MANHOLE FUNCTION

FO	Foul
SW	Surface Water
CO	Combined
OV	Overflow

SEWER SHAPE

CI	Circular	TR	Trapezoidal
EG	Egg	AR	Arch
OV	Oval	BA	Barrel
FT	Flat Top	HO	HorseShoe
RE	Rectangular	UN	Unspecified
SQ	Square		

SEWER MATERIAL

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ST	Steel
VC	Vitrified Clay
PP	Polypropylene
PF	Pitch Fibre
MAC	Masonry, Coursed
MAR	Masonry, Random
U	Unspecified

Address or Site Reference:

Omega Business park,

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Reho	Cover	Func	Invert	Size x	Size y	Shape	Matl	Length	Grad
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Reho	Cover	Func	Invert	Size x	Size y	Shape	Matl	Length	Grad
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LEGEND

Abandoned	Foul	Surface Water	Combined	Public Sewer
-----	-----	-----	-----	-----
-----	-----	-----	-----	Private Sewer
-----	-----	-----	-----	Section 104
-----	-----	-----	-----	Rising Main
-----	-----	-----	-----	Sludge Main
-----	-----	-----	-----	Overflow
-----	-----	-----	-----	Water Course
-----	-----	-----	-----	Highway Drain

All point assets follow the standard colour convention:  
red - combined  
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brown - foul  
purple - overflow

Manhole	Side Entry Manhole
Head of System	Outfall
Extent of Survey	Screen Chamber
Rodding Eye	Inspection Chamber
Inlet	Bifurcation Chamber
Discharge Point	Lamp Hole
Vortex	T Junction / Saddle
Penstock	Catchpit
Washout Chamber	Valve Chamber
Valve	Vent Column
Air Valve	Vortex Chamber
Non Return Valve	Penstock Chamber
Soakaway	Network Storage Tank
Gully	Sewer Overflow
Cascade	Ww Treatment Works
Flow Meter	Ww Pumping Station
Hatch Box	Septic Tank
Oil Interceptor	Control Kiosk
Summit	
Drop Shaft	Change of Characteristic
Orifice Plate	

MANHOLE FUNCTION

FO	Foul
SW	Surface Water
CO	Combined
OV	Overflow

SEWER SHAPE

CI	Circular	TR	Trapezoidal
EG	Egg	AR	Arch
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SI	Spun Iron
ST	Steel
VC	Vitrified Clay
PP	Polypropylene
PF	Pitch Fibre
MAC	Masonry, Coursed
MAR	Masonry, Random
U	Unspecified

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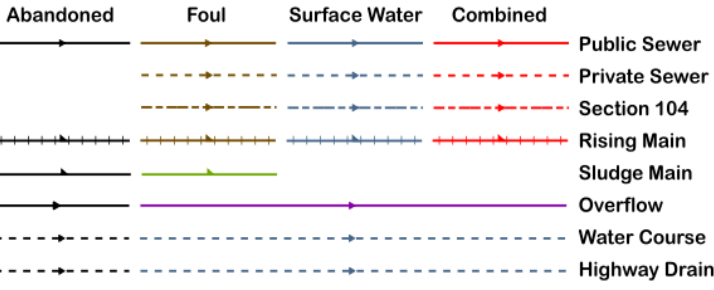
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Reho Cover Func Invert Size x Size y Shape Mat Length Grad

LEGEND



All point assets follow the standard colour convention:  
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blue - surface water  
brown - foul  
purple - overflow

- Manhole
- Head of System
- Extent of Survey
- Rodding Eye
- Inlet
- Discharge Point
- Vortex
- Penstock
- Washout Chamber
- Valve
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- Non Return Valve
- Soakaway
- Gully
- Cascade
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- Hatch Box
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- Valve Chamber
- Vent Column
- Vortex Chamber
- Penstock Chamber
- Network Storage Tank
- Sewer Overflow
- Ww Treatment Works
- Ww Pumping Station
- Septic Tank
- Control Kiosk
- Change of Characteristic

MANHOLE FUNCTION

- FO Foul
- SW Surface Water
- CO Combined
- OV Overflow

SEWER SHAPE

- CI Circular
- EG Egg
- OV Oval
- FT Flat Top
- RE Rectangular
- SQ Square
- TR Trapezoidal
- AR Arch
- BA Barrel
- HO HorseShoe
- UN Unspecified

SEWER MATERIAL

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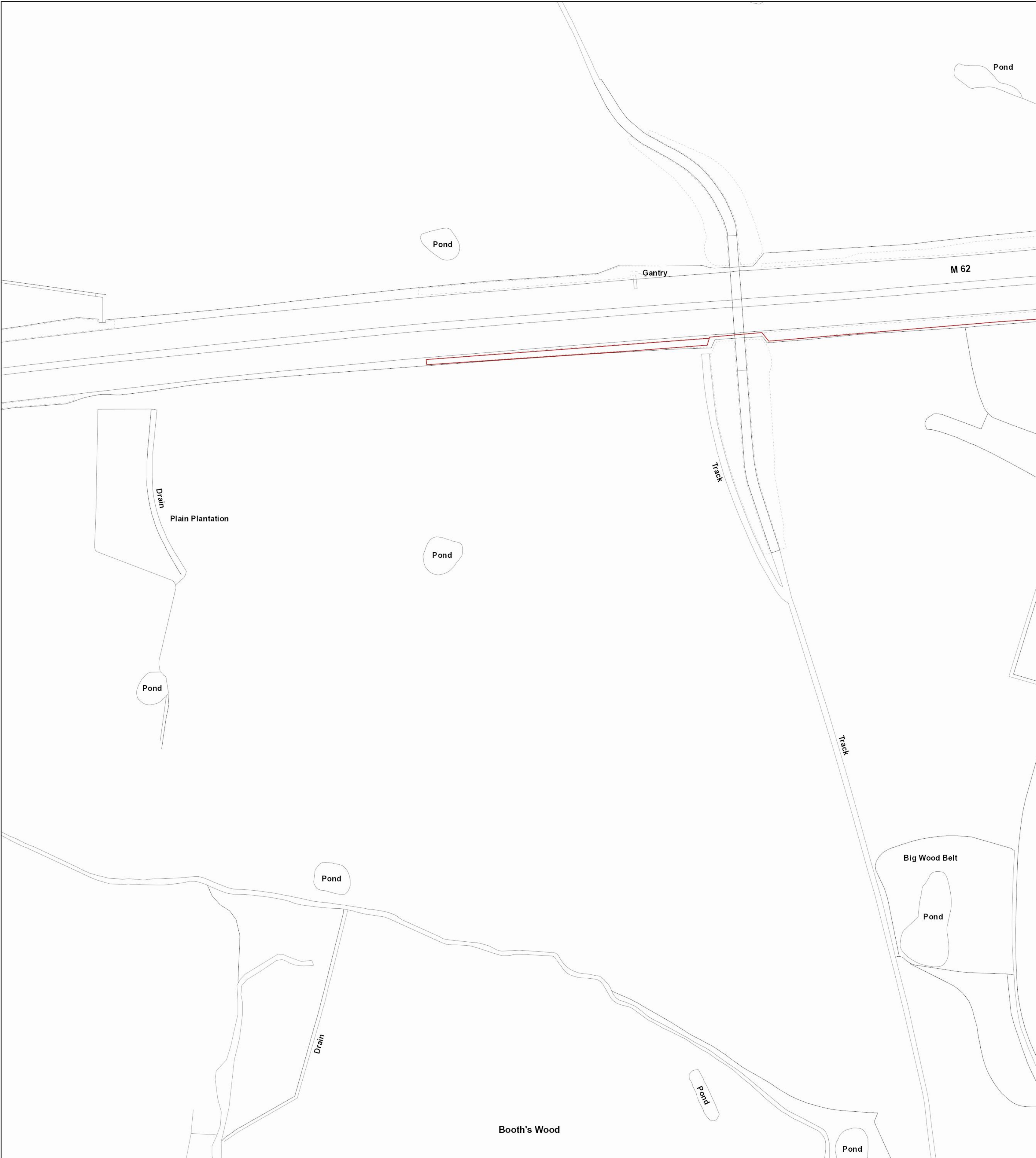
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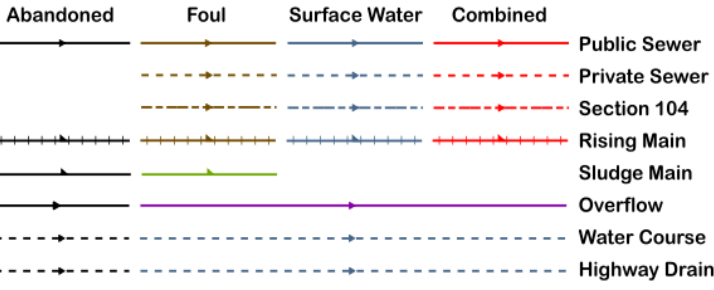
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Reho Cover Func Invert Size x Size y Shape Mat Length Grad

LEGEND



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- Head of System
- Extent of Survey
- Rodding Eye
- Inlet
- Discharge Point
- Vortex
- Penstock
- Washout Chamber
- Valve
- Air Valve
- Non Return Valve
- Soakaway
- Gully
- Cascade
- Flow Meter
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- Vent Column
- Vortex Chamber
- Penstock Chamber
- Network Storage Tank
- Sewer Overflow
- Ww Treatment Works
- Ww Pumping Station
- Septic Tank
- Control Kiosk
- Change of Characteristic

MANHOLE FUNCTION

- FO Foul
- SW Surface Water
- CO Combined
- OV Overflow

SEWER SHAPE

- CI Circular
- EG Egg
- OV Oval
- FT Flat Top
- RE Rectangular
- SQ Square
- TR Trapezoidal
- AR Arch
- BA Barrel
- HO HorseShoe
- UN Unspecified

SEWER MATERIAL

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- ST Steel
- VC Vitrified Clay
- PP Polypropylene
- PF Pitch Fibre
- MAC Masonry, Coursed
- MAR Masonry, Random
- U Unspecified

Address or Site Reference:

Omega Business park,

OS sheet Number: SJ5490NE  
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Refo	Cover	Func	Invert	Size x	Size y	Shape	Matl	Length	Grad
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LEGEND

Abandoned	Foul	Surface Water	Combined	Public Sewer
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----

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- Inlet
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- Hatch Box
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- Catchpit
- Valve Chamber
- Vent Column
- Vortex Chamber
- Penstock Chamber
- Network Storage Tank
- Sewer Overflow
- Ww Treatment Works
- Ww Pumping Station
- Septic Tank
- Control Kiosk
- Change of Characteristic

MANHOLE FUNCTION

- FO Foul
- SW Surface Water
- CO Combined
- OV Overflow

SEWER SHAPE

- CI Circular
- TR Trapezoidal
- EG Egg
- AR Arch
- OV Oval
- BA Barrel
- FT Flat Top
- HO HorseShoe
- RE Rectangular
- UN Unspecified
- SQ Square

SEWER MATERIAL

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- PVC Polyvinyl Chloride
- CI Cast Iron
- SI Spun Iron
- ST Steel
- VC Vitrified Clay
- PP Polypropylene
- PF Pitch Fibre
- MAC Masonry, Coursed
- MAR Masonry, Random
- U Unspecified

Address or Site Reference:

Omega Business park,

OS sheet SJ5490SE

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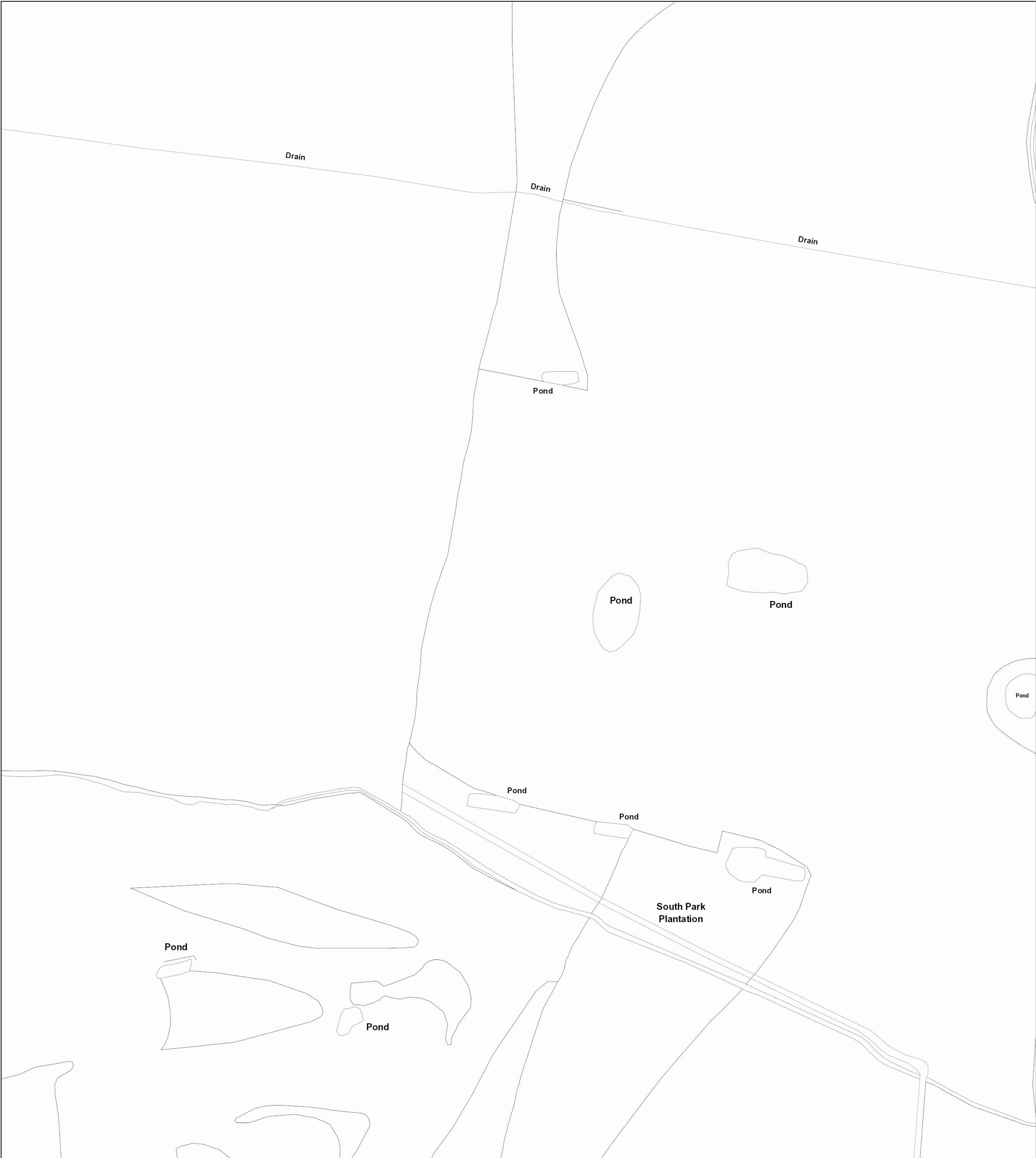
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SEWER  
RECORDS







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Refo	Cover	Func	Invert	Size x	Size y	Shape	Matl	Length	Grad
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LEGEND

Abandoned	Foul	Surface Water	Combined	Public Sewer
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----

All point assets follow the standard colour convention:  
red - combined  
blue - surface water  
brown - foul  
purple - overflow

Manhole	Side Entry Manhole
Head of System	Outfall
Extent of Survey	Screen Chamber
Rodding Eye	Inspection Chamber
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Flow Meter	Ww Pumping Station
Hatch Box	Septic Tank
Oil Interceptor	Control Kiosk
Summit	
Drop Shaft	
Orifice Plate	

MANHOLE FUNCTION

FO	Foul
SW	Surface Water
CO	Combined
OV	Overflow

SEWER SHAPE

CI	Circular	TR	Trapezoidal
EG	Egg	AR	Arch
OV	Oval	BA	Barrel
FT	Flat Top	HO	HorseShoe
RE	Rectangular	UN	Unspecified
SQ	Square		

SEWER MATERIAL

AC	Asbestos Cement
BR	Brick
PE	Polyethylene
RP	Reinforced Plastic Matrix
CO	Concrete
CSB	Concrete Segment Bolted
CSU	Concrete Segment Unbolted
CC	Concrete Box Culvert
PSC	Plastic / Steel Composite
GRC	Glass Reinforced Plastic
DI	Ductile Iron
PVC	Polyvinyl Chloride
CI	Cast Iron
SI	Spun Iron
ST	Steel
VC	Vitrified Clay
PP	Polypropylene
PF	Pitch Fibre
MAC	Masonry, Coursed
MAR	Masonry, Random
U	Unspecified

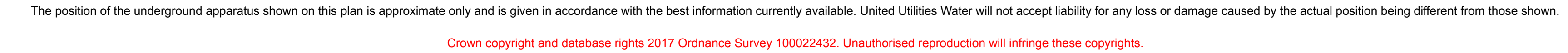
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Abandoned Foul Surface Water Combined Public Sewer  
Private Sewer  
Section 104  
Rising Main  
Sludge Main  
Overflow  
Water Course  
Highway Drain

All point assets follow the standard colour convention:

red	- combined	blue	- surface water
brown	- foul	purple	- overflow

	Manhole		Side Entry Manhole
	Head of System		Outfall
	Extending of Survey		Screen Chamber
	Roding Eye		Inspection Chamber
	Inlet		Bifurcation Chamber
	Discharge Point		Lamp Hole
	Vortex		T Junction / Saddle
	Penstock		Catchpit
	Washout Chamber		Valve Chamber
	Valve		Vent Column
	Air Valve		Vortex Chamber
	Non Return Valve		Penstock Chamber
	Soakaway		Network Storage Tank
	Gully		Sewer Overflow
	Cascade		WW Treatment Works
	Flow Meter		Ww Pumping Station
	Hatch Box		Septic Tank
	Oil Interceptor		Control Kiosk
	Summit		
	Drop Shaft		Change of Characteristic
	Orifice Plate		

FO	Foul
SW	Surface Water
CO	Combined
OV	Overflow

CI	Circular	TR	Trapezoidal
EG	Egg	AR	Arch
OV	Oval	BA	Barrel
FT	Flat Top	HO	HorseShoe
RE	Rectangular	UN	Unspecified
SQ	Square		

AC	Asbestos Cement
BR	Brick
PE	Polyethylene
RP	Reinforced Plastic Matrix
CO	Concrete
CSB	Concrete Segment Bolted
CSU	Concrete Segment Unbolted
CC	Concrete Box Culverted
PSC	Plastic / Steel Composite
GRC	Glass Reinforced Plastic
DI	Ductile Iron
PVC	Polyvinyl Chloride
CI	Cast Iron
SI	Spun Iron
ST	Steel
VC	Vitrified Clay
PP	Polypropylene
PF	Pitch Fibre
MAC	Masonry, Coursed
MAR	Masonry, Random
U	Unspecified

Omega Business park,

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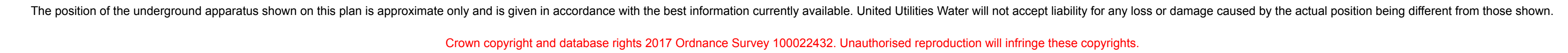


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The diagram illustrates the flow paths within a sewer network. It is organized into columns representing different types of infrastructure: Abandoned, Foul, Surface Water, Combined, Public Sewer, Private Sewer, Section 104, Rising Main, Sludge Main, Overflow, Water Course, and Highway Drain. Arrows indicate the direction of flow between these components. For example, flow goes from Abandoned to Foul, Foul to Surface Water, Surface Water to Combined, and Combined to Public Sewer. There are also direct flows from Foul to Public Sewer, Surface Water to Private Sewer, and Surface Water to Section 104. The Rising Main, Sludge Main, and Overflow components have arrows pointing towards the Water Course and Highway Drain. The Water Course and Highway Drain are the final destinations for the flow.

All point assets follow the standard colour convention:

red - combined	blue - surface water
brown - foul	purple - overflow

- Manhole
- Head of System
- Extent of Survey
- Rodding Eye
- Inlet
- Discharge Point
- Vortex
- Penstock
- Washout Chamber
- Valve
- Air Valve
- Non Return Valve
- Soakaway
- Gully
- Cascade
- Flow Meter
- Hatch Box
- Oil Interceptor
- Summit
- Drop Shaft
- Orifice Plate
- Side Entry Manhole
- Outfall
- Screen Chamber
- Inspection Chamber
- Bifurcation Chamber
- Lamp Hole
- T Junction / Saddle
- Catchpit
- Valve Chamber
- Vent Column
- Vortex Chamber
- Penstock Chamber
- Network Storage Tank
- Sewer Overflow
- Ww Treatment Works
- Ww Pumping Station
- Septic Tank
- Control Kiosk
- ▽ Change of Characteristic

## MANHOLE FUNCTION

- |    |               |
|----|---------------|
| FO | Foul          |
| SW | Surface Water |
| CO | Combined      |
| OV | Overflow      |

## SEWER SHAPE

- |    |             |    |             |
|----|-------------|----|-------------|
| CI | Circular    | TR | Trapezoidal |
| EG | Egg         | AR | Arch        |
| OV | Oval        | BA | Barrel      |
| FT | Flat Top    | HO | HorseShoe   |
| RE | Rectangular | UN | Unspecified |
| SQ | Square      |    |             |

## SEWER MATERIAL

- |     |                           |
|-----|---------------------------|
| AC  | Asbestos Cement           |
| BR  | Brick                     |
| PE  | Polyethylene              |
| RP  | Reinforced Plastic Matrix |
| CO  | Concrete                  |
| CSB | Concrete Segment Bolted   |
| CSU | Concrete Segment Unbolted |
| CC  | Concrete Box Culverted    |
| PSC | Plastic / Steel Composite |
| GRC | Glass Reinforced Plastic  |
| DI  | Ductile Iron              |
| PVC | Polyvinyl Chloride        |
| CI  | Cast Iron                 |
| SI  | Spun Iron                 |
| ST  | Steel                     |
| VC  | Vitrified Clay            |
| PP  | Polypropylene             |
| PF  | Pitch Fibre               |
| MAC | Masonry, Coursed          |
| MAR | Masonry, Random           |
| U   | Unspecified               |

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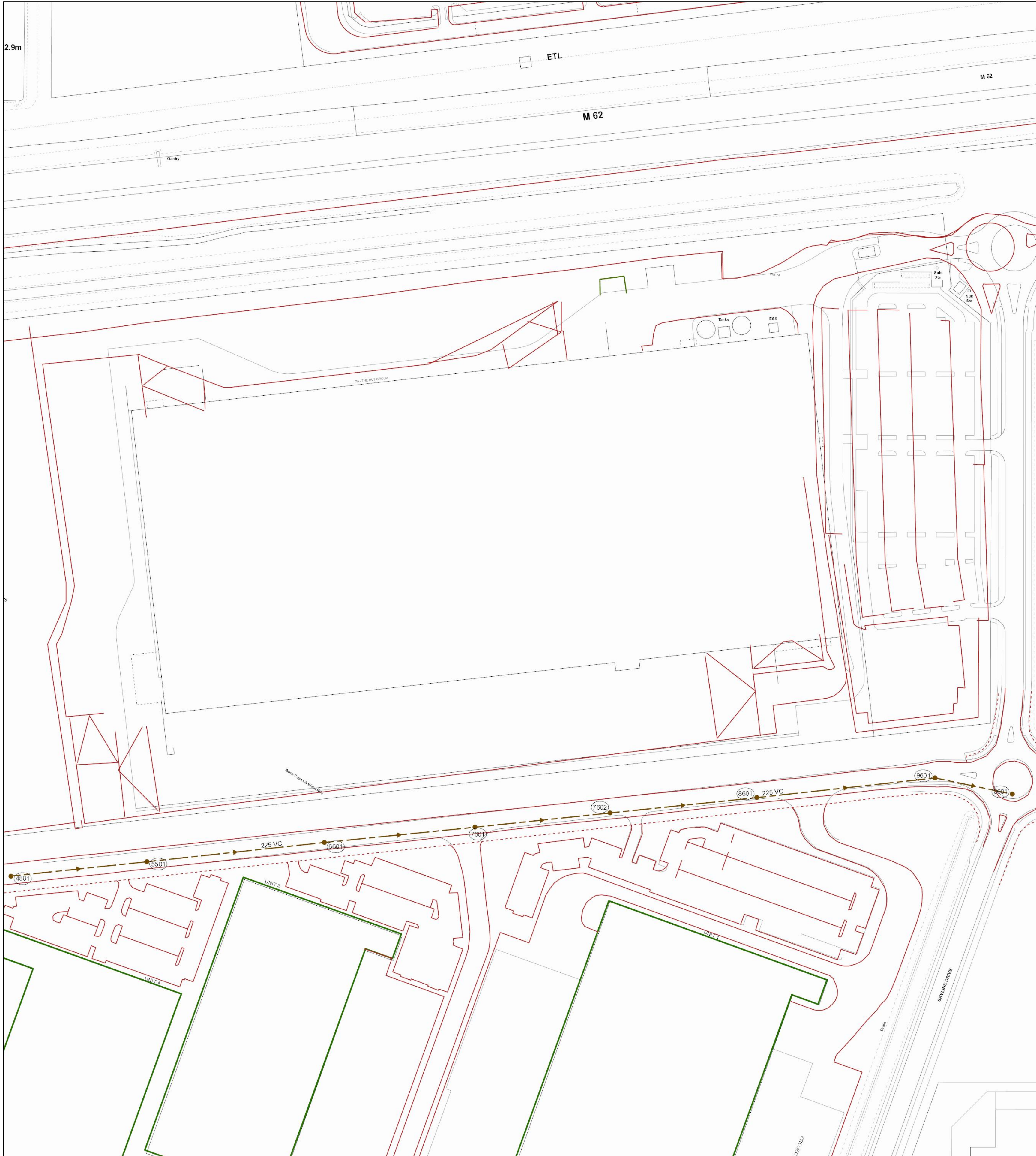
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# SEWER RECORDS





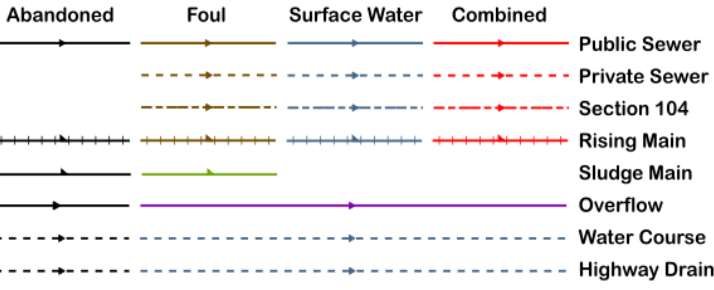


2.9m

Reho	Cover	Func	Invert	Size x	Size y	Shape	Matl	Length	Grad
7602	21.32	FO	17.09	225		VC	VC	81.20395	1 in 148
6601	21.33	FO	18.16	225		VC	VC	83.41533	1 in 149
7601	21.62	FO	17.6	225		VC	VC	75.01115	1 in 147
8601	20.64	FO	16.54	225		VC	VC	98.50434	1 in 148
4501	21.62	FO	19.32	225		VC	VC	75.25677	1 in 151
4501	21.62	FO	19.32	225		VC	VC	75.25677	1 in 151
5501	21.97	FO	18.82	225		VC	VC	98.38638	1 in 149
9601	20.5	FO	15.87	225		VC	VC	43.40433	1 in 150

Reho	Cover	Func	Invert	Size x	Size y	Shape	Matl	Length	Grad
------	-------	------	--------	--------	--------	-------	------	--------	------

LEGEND



All point assets follow the standard colour convention:  
red - combined  
blue - surface water  
brown - foul  
purple - overflow

- Manhole
- Head of System
- Extent of Survey
- Rodding Eye
- Inlet
- Discharge Point
- Vortex
- Penstock
- Washout Chamber
- Valve
- Air Valve
- Non Return Valve
- Soakaway
- Gully
- Cascade
- Flow Meter
- Hatch Box
- Oil Interceptor
- Summit
- Drop Shaft
- Orifice Plate
- Side Entry Manhole
- Outfall
- Screen Chamber
- Inspection Chamber
- Bifurcation Chamber
- Lamp Hole
- T Junction / Saddle
- Catchpit
- Valve Chamber
- Vent Column
- Vortex Chamber
- Penstock Chamber
- Network Storage Tank
- Sewer Overflow
- Ww Treatment Works
- Ww Pumping Station
- Septic Tank
- Control Kiosk
- Change of Characteristic

MANHOLE FUNCTION

- FO Foul
- SW Surface Water
- CO Combined
- OV Overflow

SEWER SHAPE

- CI Circular
- TR Trapezoidal
- EG Egg
- AR Arch
- OV Oval
- BA Barrel
- FT Flat Top
- HO HorseShoe
- RE Rectangular
- UN Unspecified
- SQ Square

SEWER MATERIAL

- AC Asbestos Cement
- BR Brick
- PE Polyethylene
- RP Reinforced Plastic Matrix
- CO Concrete
- CSB Concrete Segment Bolted
- CSU Concrete Segment Unbolted
- CC Concrete Box Culverted
- PSC Plastic / Steel Composite
- GRC Glass Reinforced Plastic
- DI Ductile Iron
- PVC Polyvinyl Chloride
- CI Cast Iron
- SI Spun Iron
- ST Steel
- VC Vitrified Clay
- PP Polypropylene
- PF Pitch Fibre
- MAC Masonry, Coursed
- MAR Masonry, Random
- U Unspecified

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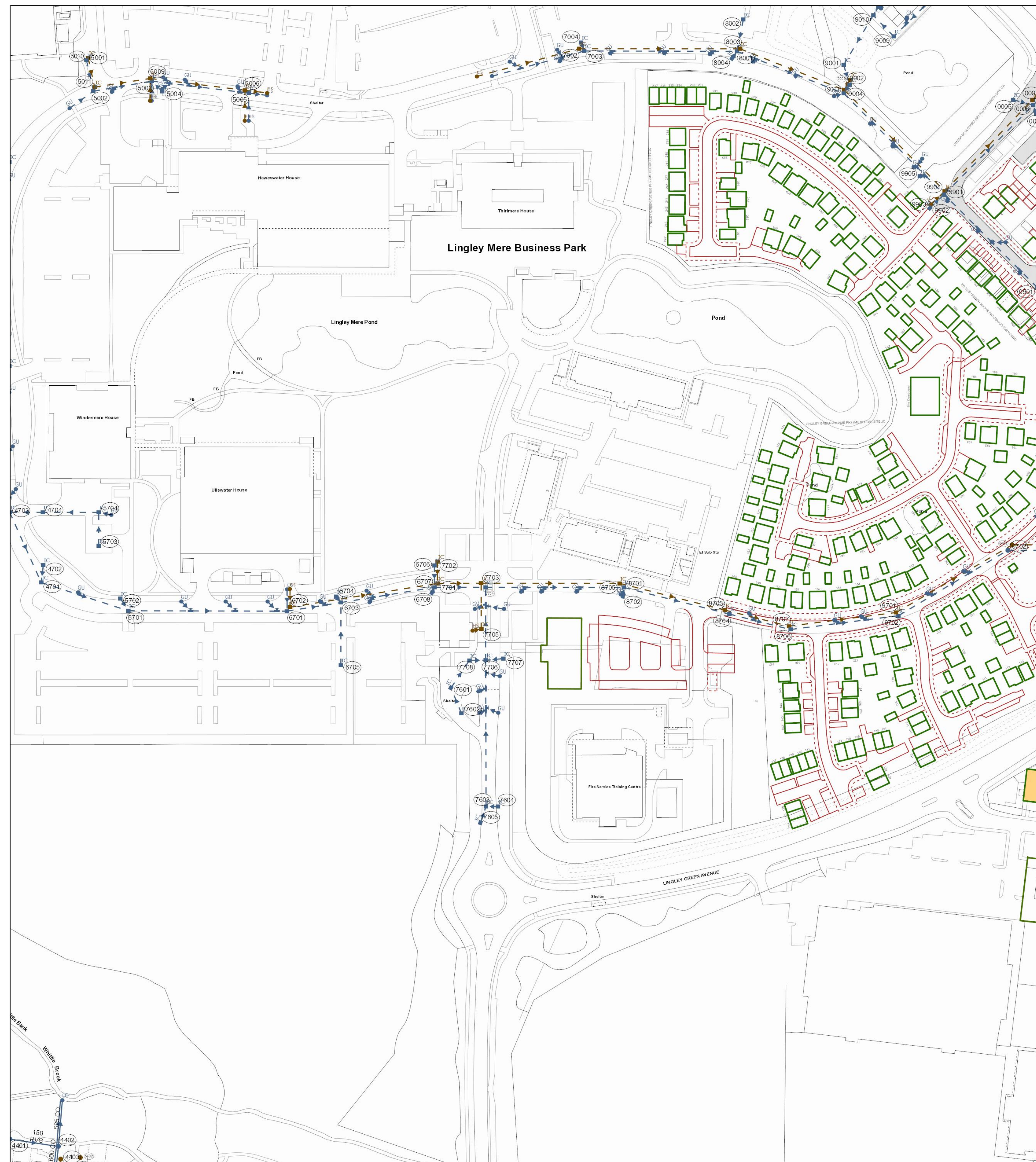
The position of the underground apparatus shown on this plan is approximate only and is given in accordance with the best information currently available. United Utilities Water will not accept liability for any loss or damage caused by the actual position being different from those shown.

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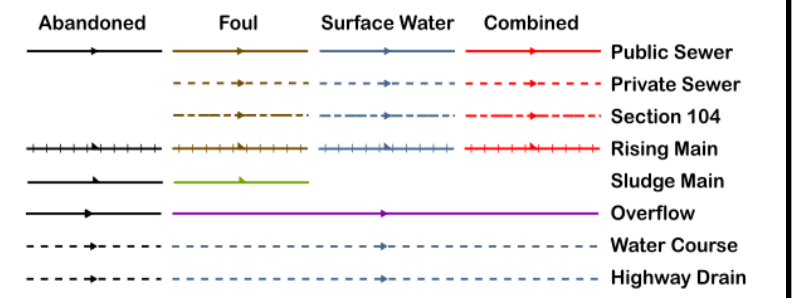




Refno	Cover	Func	Invert	Size x	Size y	Shape	Matl	Length	Grad
4401	17.01	SW	15.51	150			PVC	26.95435	1 in 50
4401	17.01	SW	15.51	150			PVC	26.95435	1 in 50
4402	16.74	SW	14.65	525			CO	26.51174	1 in 295
4402	16.74	SW	14.65	525			CO	26.51174	1 in 295
4402	16.74	SW	14.6	600			CO	26.53802	1 in 295
4402	16.74	SW	14.6	600			CO	26.53802	1 in 295
4403	16.98	FO	14.24	150			PVC	60.92249	1 in 80
4403	16.98	FO	14.24	150			PVC	60.92249	1 in 80
0702		SW	0	0			UN	45.56384	1 in 80
0701		FO	0	0			UN	79.35043	1 in 80
9103	19.5	SW	14.11	2100			CO	140.3229	1 in 246

Refno	Cover	Func	Invert	Size x	Size y	Shape	Matl	Length	Grad
-------	-------	------	--------	--------	--------	-------	------	--------	------

## LEGEND



All point assets follow the standard colour convention:

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- Manhole
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- Lamp Hole
- T Junction / Saddle
- Catchpit
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- Vent Column
- Vortex Chamber
- Penstock Chamber
- Network Storage Tank
- Sewer Overflow
- Ww Treatment Works
- Ww Pumping Station
- Septic Tank
- Control Kiosk
- ▽ Change of Characteristic

### MANHOLE FUNCTION

- |    |               |
|----|---------------|
| FO | Foul          |
| SW | Surface Water |
| CO | Combined      |
| OV | Overflow      |

## SEWER SHAPE

- |    |             |    |             |
|----|-------------|----|-------------|
| CI | Circular    | TR | Trapezoidal |
| EG | Egg         | AR | Arch        |
| OV | Oval        | BA | Barrel      |
| FT | Flat Top    | HO | HorseShoe   |
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| SQ | Square      |    |             |

## SEWER MATERIAL

- |     |                           |
|-----|---------------------------|
| AC  | Asbestos Cement           |
| BR  | Brick                     |
| PE  | Polyethylene              |
| RP  | Reinforced Plastic Matrix |
| CO  | Concrete                  |
| CSB | Concrete Segment Bolted   |
| CSU | Concrete Segment Unbolted |
| CB  | Concrete Box Culverted    |
| PSC | Plastic / Steel Composite |
| GR  | Glass Reinforced Plastic  |
| D   | Ductile Iron              |
| PVC | Polyvinyl Chloride        |
| C   | Cast Iron                 |
| SI  | Spun Iron                 |
| ST  | Steel                     |
| VC  | Vitrified Clay            |
| PP  | Polypropylene             |
| PF  | Pitch Fibre               |
| MAC | Masonry, Coursed          |
| MAR | Masonry, Random           |
| U   | Unspecified               |

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