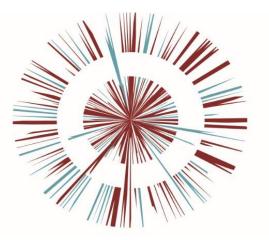


## **OMEGA ZONE 8, ST HELENS** Omega St Helens Ltd / T. J. Morris Limited



Flood Risk Assessment Appendix G-H OPP DOC. 1.5

# **Appendix G**

### UNITED UTILITIES ASSET LOCATION PLANS

Public

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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

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. <u>http://www.unitedutilities.com/work-near-asset.aspx</u>.

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,



Property Searches Manager

3 white rose office park millshaw park lane,

FAO:

leeds, Is11 0dl

WSP



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

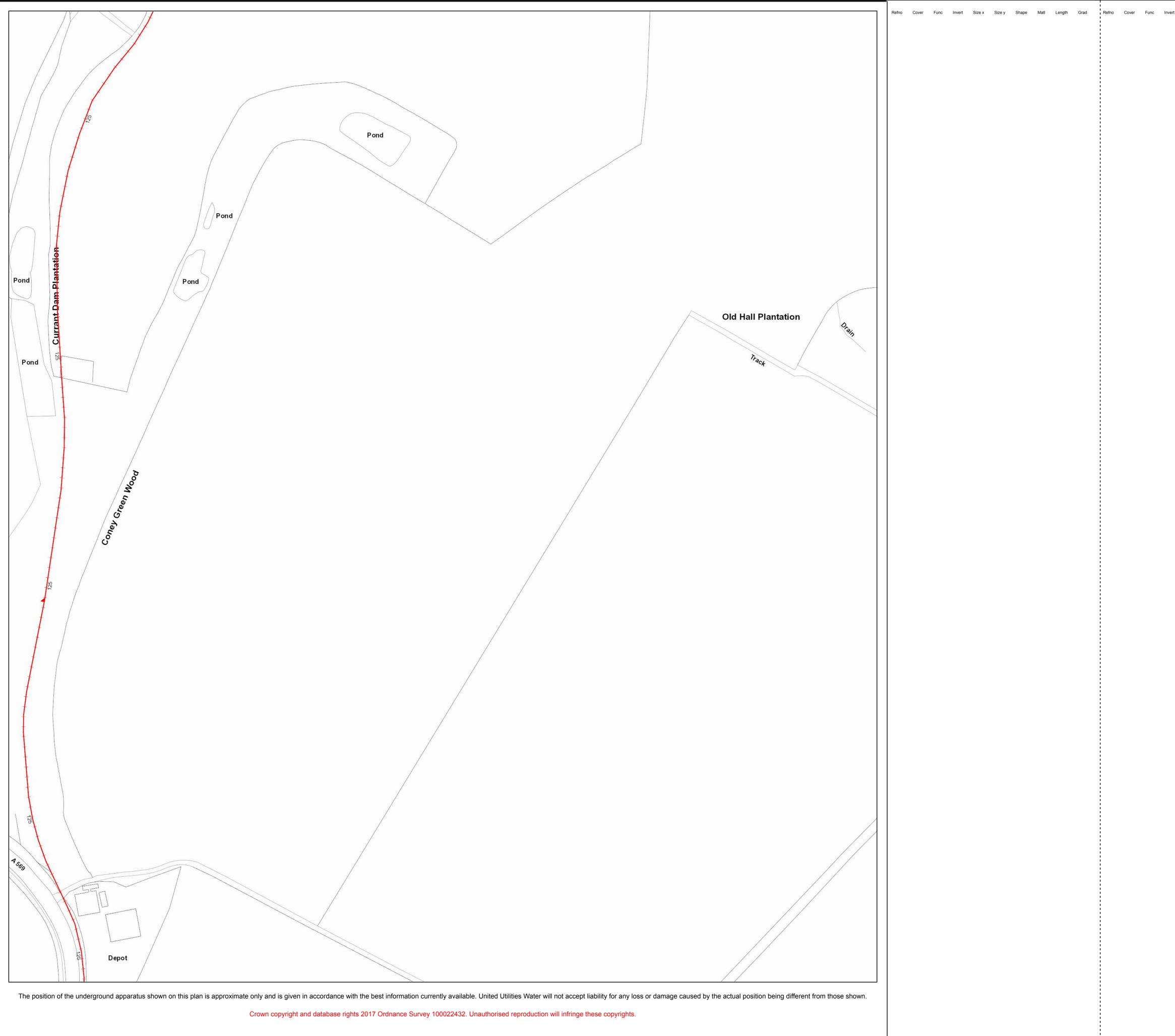
These provisions apply to the public sewerage, water distribution and telemetry systems (including sewers which are the subject of an agreement under Section 104 of the Water Industry Act 1991 and mains installed in accordance with the agreement for the self construction of water mains) (UUWL apparatus)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

#### **TERMS AND CONDITIONS:**

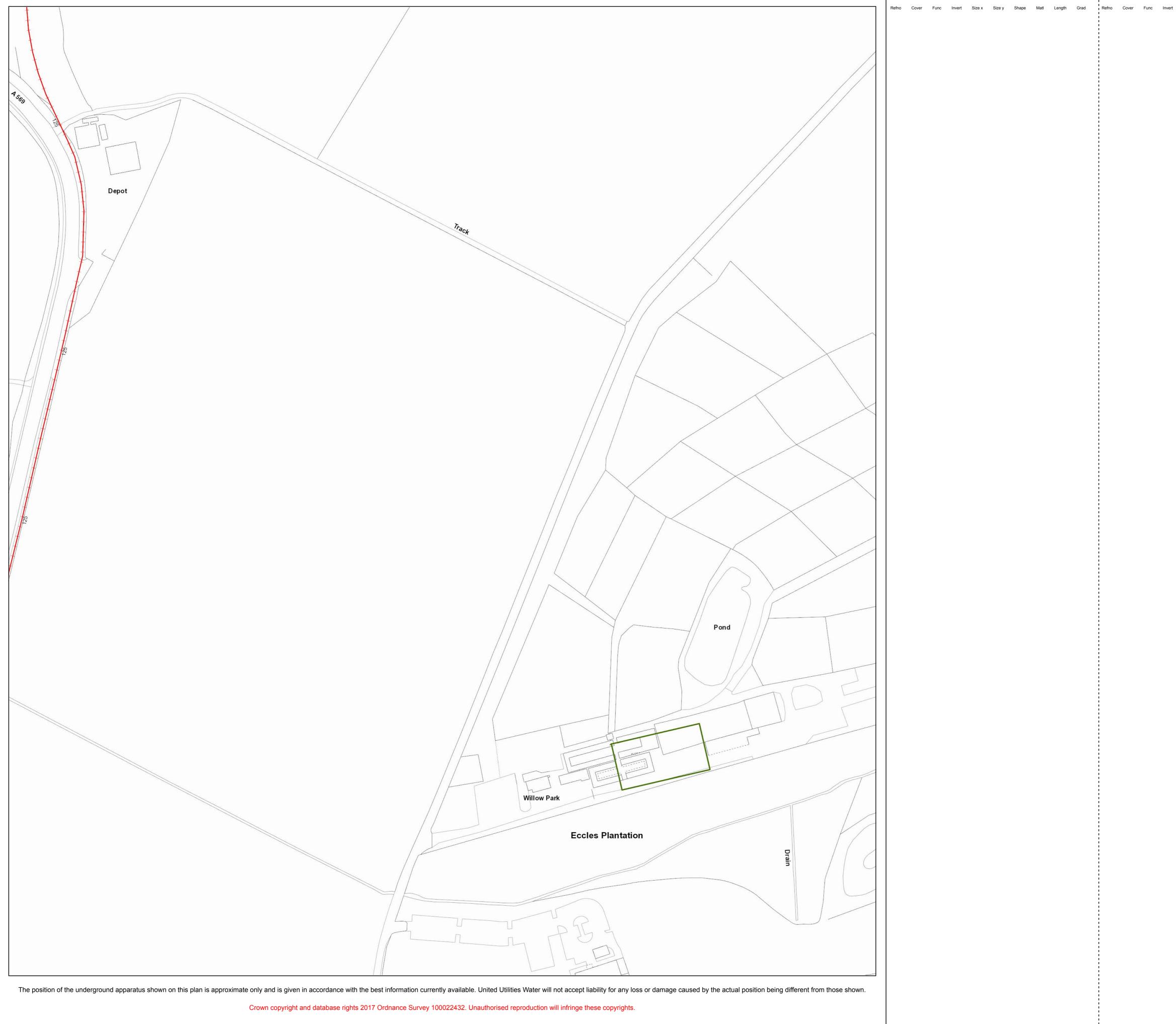
- This Map and any information supplied with it is issued subject to the provisions contained below, to the exclusion of all others and no party relies upon any representation, warranty, collateral contract or other assurance of any person (whether party to this agreement or not) that is not set out 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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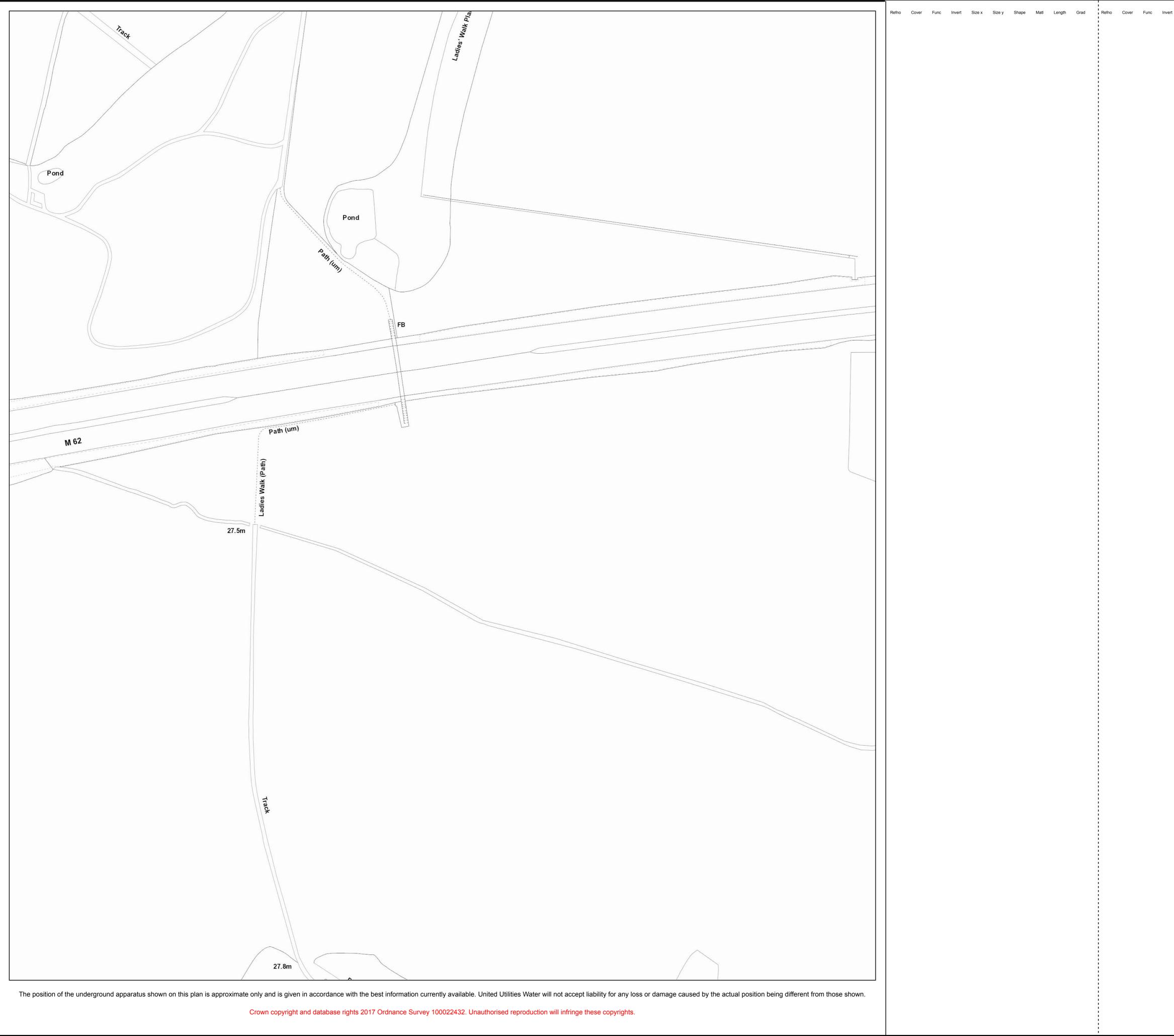
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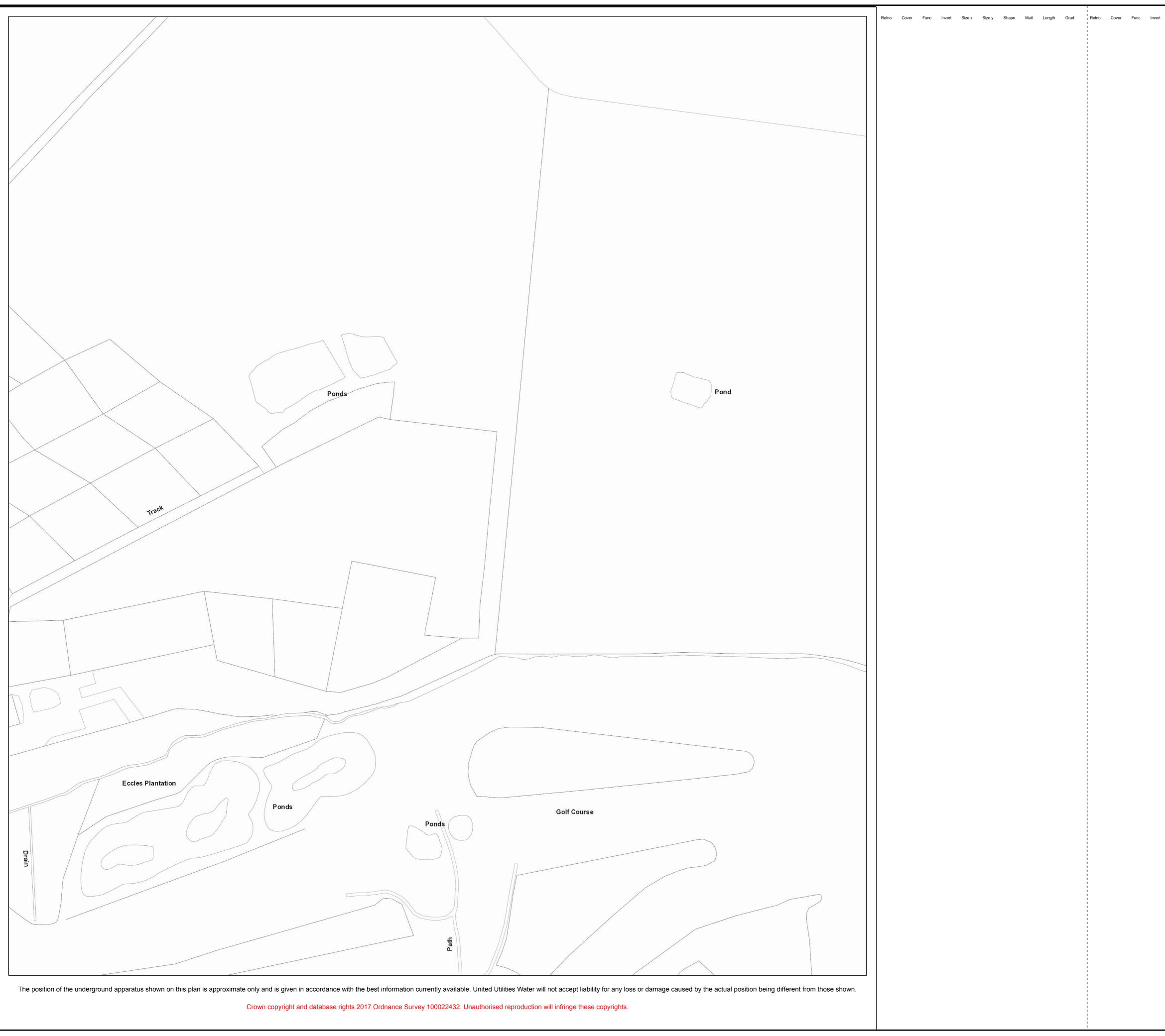
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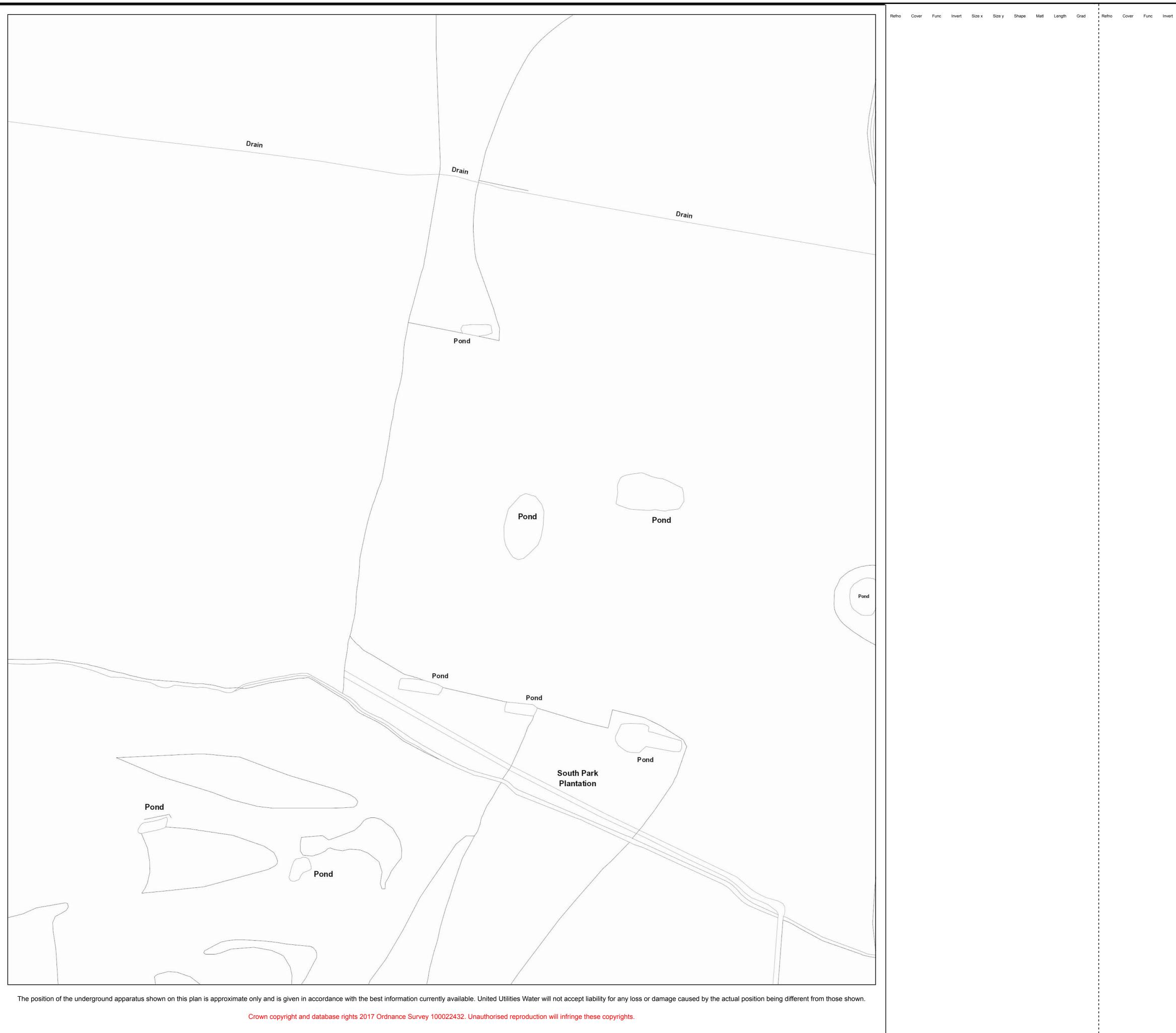


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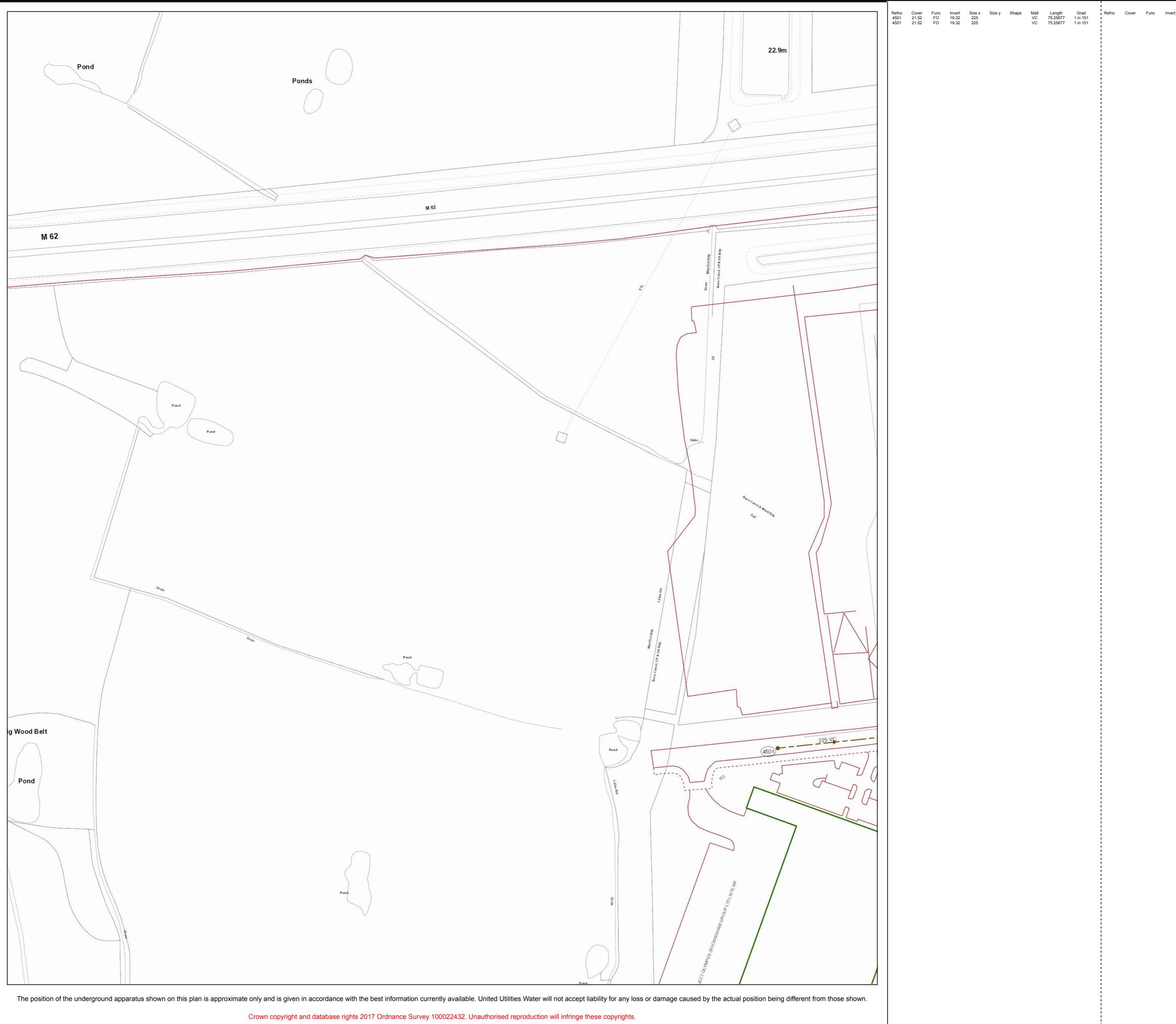
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ize y Shape Matl Length Grad	LEGEND		
	Abandoned Foul	Surface Water Combined	
		Public Sewer	
	++++++++++++++++++++++++++++++++++++++	Rising Main	
		Overflow	
		→ Water Course → Highway Drain	
	All point assets follow red - combined brown - foul	the standard colour convention: blue - surface water purple - overflow	
	• Manhole	Side Entry Manhole	
	<sup>HS</sup> Head of System <sup>ES</sup> Extent of Survey	<ul><li>Outfall</li><li>Screen Chamber</li></ul>	
	■ Rodding Eye ■ Inlet	Inspection Chamber Bifurcation Chamber	
	<ul> <li>Discharge Point</li> </ul>	Lamp Hole	
	<ul> <li>Vortex</li> <li>Penstock</li> </ul>	T Junction / Saddle Catchpit	
	Wo Washout Chamber	🤕 Valve Chamber	
	<ul> <li>Valve</li> <li>Air Valve</li> </ul>	<ul> <li>Vent Column</li> <li>Vortex Chamber</li> </ul>	
	• Non Return Valve	<ul> <li>Penstock Chamber</li> <li>Network Storage Tank</li> </ul>	
	Soakaway <sup>GU</sup> Gully	Sewer Overflow	
	Cascade	Ww Treatment Works ▲ Ww Pumping Station	
	Flow Meter HA Hatch Box	5 Septic Tank	
	OI Interceptor	Control Kiosk	
	Summit Drop Shaft	$\bigtriangledown$ Change of Characteristic	
	• Orifice Plate		
	F	O Foul W Surface Water	
		W Surface Water O Combined	
	0	V Overflow	
		SEWER SHAPE	
	CI Circu		
	EG Egg OV Oval	AR Arch BA Barrel	
	FT Flat	Top HO HorseShoe	
	RE Recta SQ Squa		
	٩	EWER MATERIAL	
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Grad	LEGEND		
Abandoned	Foul	Surface Water Combined	Public Sewer
			Private Sewer Section 104
<u>+++++×+</u>	+ ++++++++++++++++++++++++++++++++++++	+++++ <b>*</b>	Rising Main Sludge Main
		·····	Overflow Water Course
		·····	Highway Drain
	ooint assets follow red - combined rown - foul	the standard colour convention blue - surface water purple - overflow	:
• Ma	anhole	📍 Side Entry Manho	le
	ead of System ttent of Survey	<ul> <li>✓ Outfall</li> <li>I Screen Chamber</li> </ul>	
e Ro	dding Eye	Inspection Chamb	
	let scharge Point	Bifurcation Cham	ber
لاً Vo	ortex	T Junction / Sadd	e
	enstock ashout Chamber	<ul><li>Catchpit</li><li>Valve Chamber</li></ul>	
🎸 Va	alve	Vent Column Vortex Chamber	
	r Valve on Return Valve	Penstock Chambe	
<sup>50</sup> So	bakaway	<ul> <li>Network Storage</li> <li>Sewer Overflow</li> </ul>	Tank
<sup>GU</sup> Gu A Ca	ully ascade	Ww Treatment Wo	
. <sup>™</sup> Flo	ow Meter	▲ Ww Pumping Stat Septic Tank	ion
	atch Box	Control Kiosk	
<mark>-</mark> <sup>SM</sup> Su	il Interceptor ummit	abla Change of Charac	ateristic
● <sup>DS</sup> Dr	rop Shaft rifice Plate	V Gnange of Charac	Stensuc
	F	NHOLE FUNCTION O Foul W Surface Water	
	C		
	0		
		SEWER SHAPE	
	CI Circu	ılar TR Trapezoidal	
	EG Egg	AR Arch	
	OV Oval FT Flat 1		
	RE Recta	angular UN Unspecified	
	SQ Squa	re	
	9	EWER MATERIAL	
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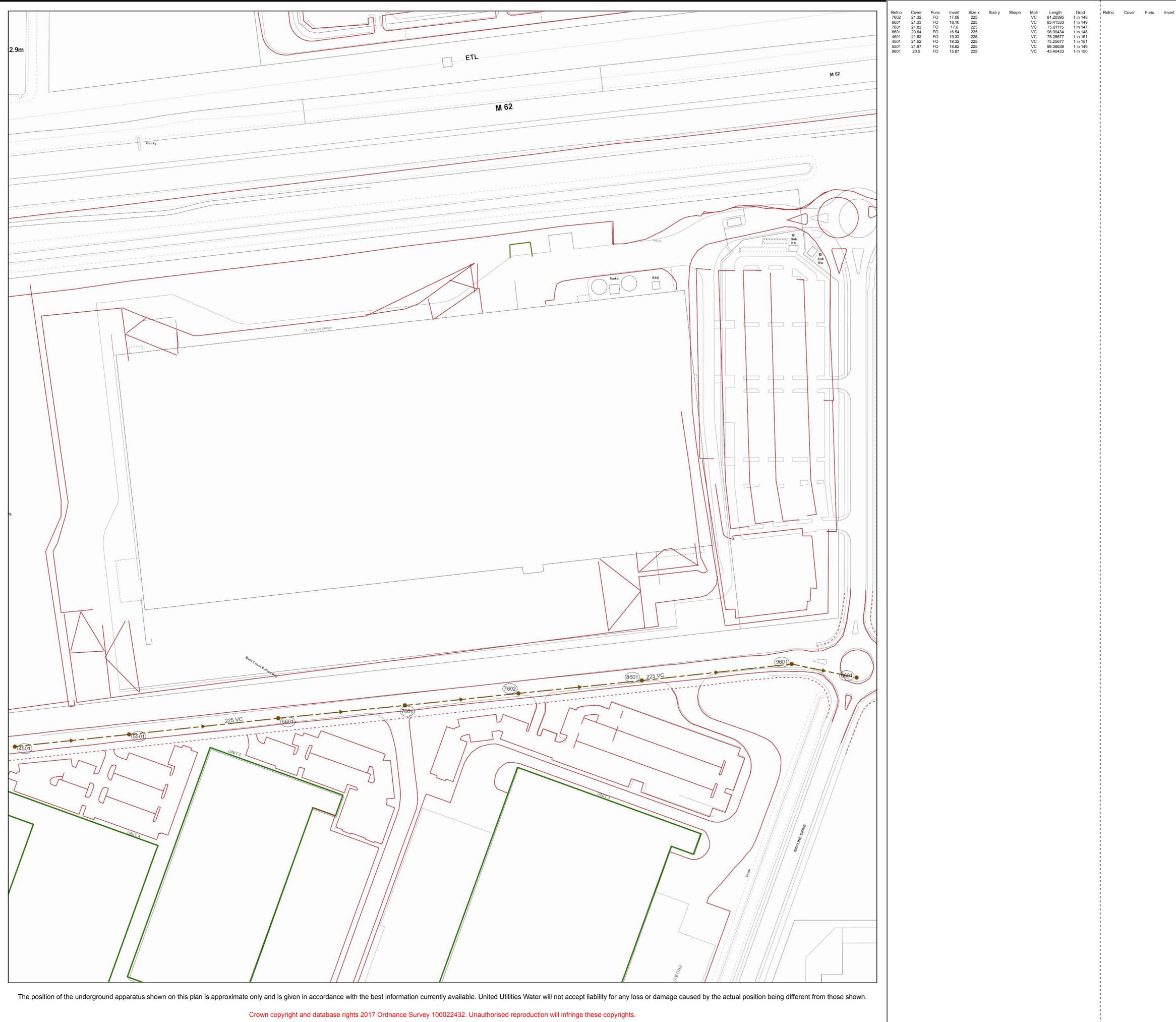


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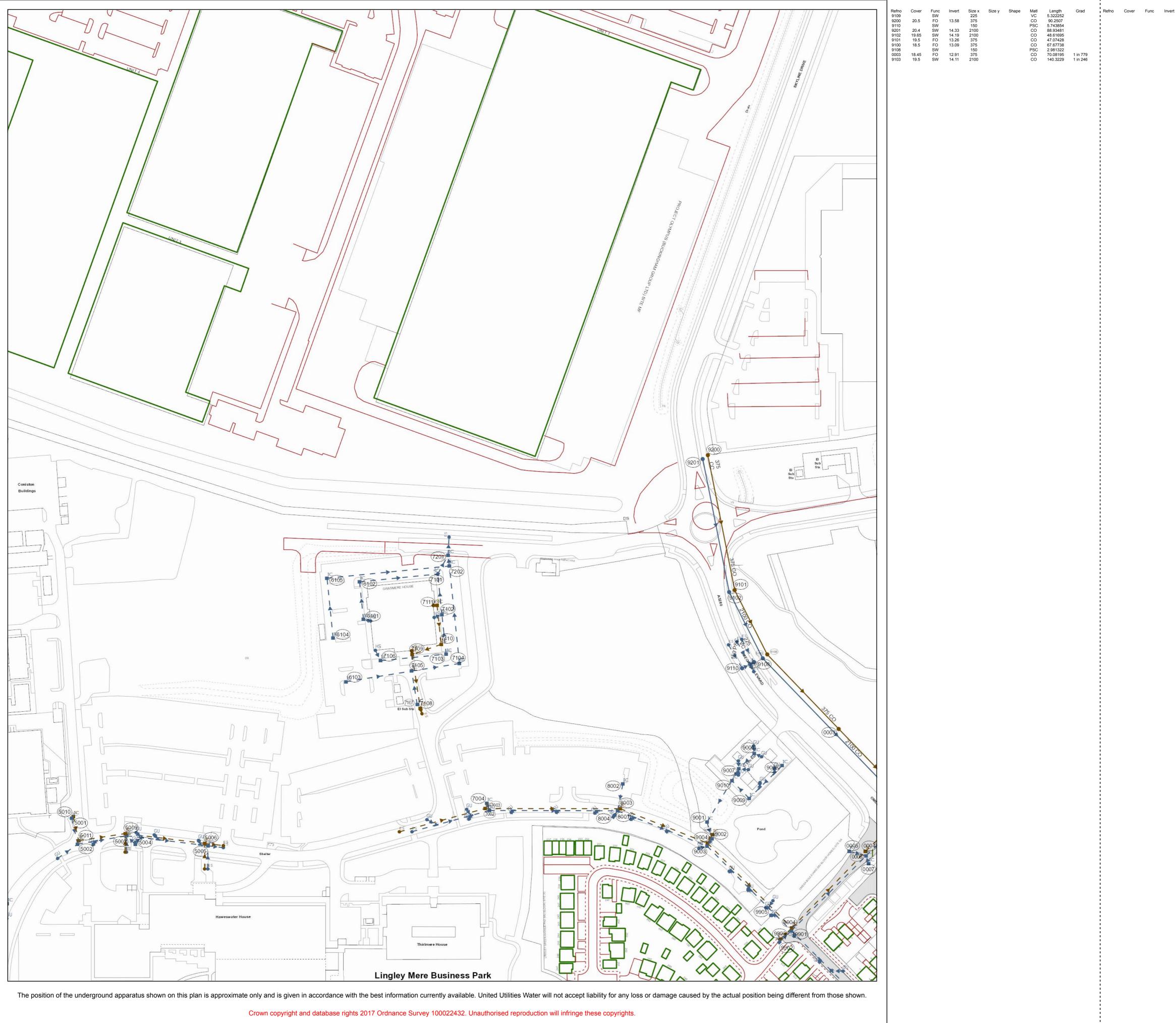
Size y Shape Matl Length Grad	LEGEND		
	Abandoned Foul	Surface Water Combined	
		Public Sewer Private Sewer Section 104	
	++++++ <b>&gt;</b>	Rising Main Sludge Main	
		Overflow →  Water Course	
		→	
	All point assets follow <mark>red</mark> - combined brown - foul	the standard colour convention: blue - surface water purple - overflow	
	Manhole	Side Entry Manhole	
	HS Head of System	C Outfall	
	Extent of Survey Rodding Eye	Screen Chamber Inspection Chamber	
	Inlet P Discharge Point	Bifurcation Chamber	
	<ul> <li><sup>DP</sup> Discharge Point</li> <li><sup>HY</sup> Vortex</li> </ul>	T Junction / Saddle	
	Penstock Wo Shout Chamber	<ul><li>Catchpit</li><li>Valve Chamber</li></ul>	
	<ul> <li>Washout Chamber</li> <li>Valve</li> </ul>	Vent Column	
	Air Valve	<ul><li>Vortex Chamber</li><li>Penstock Chamber</li></ul>	
	<ul> <li>Non Return Valve</li> <li>Soakaway</li> </ul>	Network Storage Tank	
	Gully	Sewer Overflow	
	Cascade M Flow Meter	Ww Pumping Station	
	HA Hatch Box	<ul><li>Septic Tank</li><li>Control Kiosk</li></ul>	
	<sup>OI</sup> Oil Interceptor S <sup>M</sup> Summit		
	<ul> <li>Summit</li> <li><sup>DS</sup> Drop Shaft</li> <li><sup>OP</sup> Orifice Plate</li> </ul>	$\bigtriangledown$ Change of Characteristic	
		NHOLE FUNCTION	
	F	D Foul W Surface Water	
	C		
	0	V Overflow	
		SEWER SHAPE	
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	EG Egg	AR Arch	
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	٩	EWER MATERIAL	
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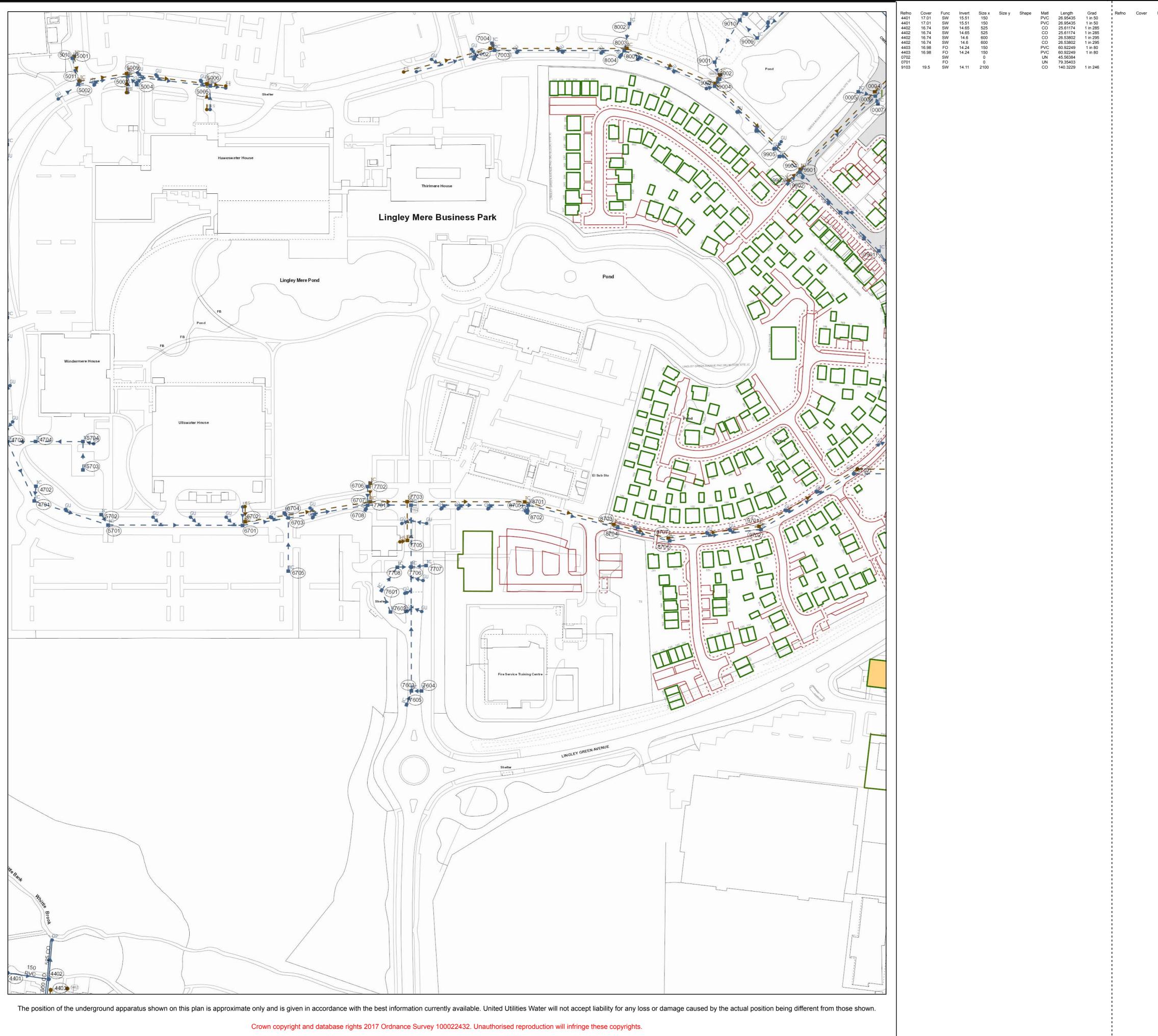


n Grad	LEGEND		
Abandoned	Foul	Surface Water Combined	Public Sewer
		····	Public Sewer Private Sewer Section 104
····		·····	Rising Main Sludge Main
			Overflow Water Course
			Water Course Highway Drain
All p	red - combined	the standard colour convention blue - surface water	:
br	own - foul	purple - overflow	
	nhole ad of System	<ul> <li>Side Entry Manho</li> <li>Outfall</li> </ul>	le
Es Ex	tent of Survey	Screen Chamber	ber
● Ro ● Inl	dding Eye et	Bifurcation Cham	
	scharge Point	Lamp Hole	e
	rtex nstock	I Junction / Saddi Catchpit	
WO Wa	shout Chamber	<ul><li>Valve Chamber</li><li>Vent Column</li></ul>	
¥ Va ■ Air	lve · Valve	<ul> <li>Vent Column</li> <li>Vortex Chamber</li> </ul>	
NRV No	n Return Valve	Penstock Chambe	
<sup>50</sup> So <sup>60</sup> Gu	akaway IIv	Sewer Overflow	
	scade	Ww Treatment Wo	
🗗 Fic	w Meter	<ul> <li>Ww Pumping Stat</li> <li>Septic Tank</li> </ul>	ion
-	tch Box Interceptor	Control Kiosk	
<sup>SM</sup> Su	mmit op Shaft	$\overline{igvee}$ Change of Charac	cteristic
	ifice Plate		
	MAI	NHOLE FUNCTION	
	FC		
	SV		
		<ul><li>Combined</li><li>V Overflow</li></ul>	
	:	SEWER SHAPE	
	CI Circu		
	EG Egg	AR Arch	
	OV Oval FT Flat T	BA Barrel op HO HorseShoe	
	RE Recta		
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		EWER MATERIAL	
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Grad	LEGEND		
Abandoned	Foul	Surface Water Combined	
		· · · · · · · · · · · · · · · · · · ·	Public Sewer Private Sewer
····			Section 104 Rising Main
			Sludge Main Overflow
		· · · · <b>·</b> · · · · · · · · · · · · · ·	Water Course Highway Drain
	red - combined	he standard colour convention blue - surface water purple - overflow	:
	nhole ad of System	<ul> <li>Side Entry Manho</li> <li>Outfall</li> </ul>	le
	tent of Survey	Screen Chamber	
<sup>RE</sup> Roo ■ Inle	dding Eye	Inspection Chamber Bifurcation Chamber Bifu	
	charge Point	Lamp Hole	
	rtex nstock	T Junction / Saddl Catchpit	e
• • •	shout Chamber	✓ Valve Chamber	
¥ Val	ve Valve	Vent Column Vortex Chamber	
NRV NO	n Return Valve	Penstock Chamber Network Storage	
● Soa ● Gu	akaway IIv	Network Storage Sewer Overflow	
o <sup>™</sup> Gu ⊷ Ca:		Ww Treatment Wo	
🖡 Flo	w Meter	<ul> <li>Ww Pumping Stat</li> <li>Septic Tank</li> </ul>	ion
•	tch Box Interceptor	🖂 Control Kiosk	
<mark>.</mark> § <sup>M</sup> Sur		$\bigtriangledown$ Change of Charac	cteristic
00	fice Plate		
	MAN	NHOLE FUNCTION	
	FC		
	SV		
		/ Overflow	
		SEWER SHAPE	
	CI Circu		
	EG Egg	AR Arch	
	OV Oval	BA Barrel	
	FT Flat T RE Recta		
	SQ Squar		
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	BR Bri PE Po		
		lyethylene inforced Plastic Matrix	
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		st Iron	
	SI Spu ST Ste	un Iron eel	
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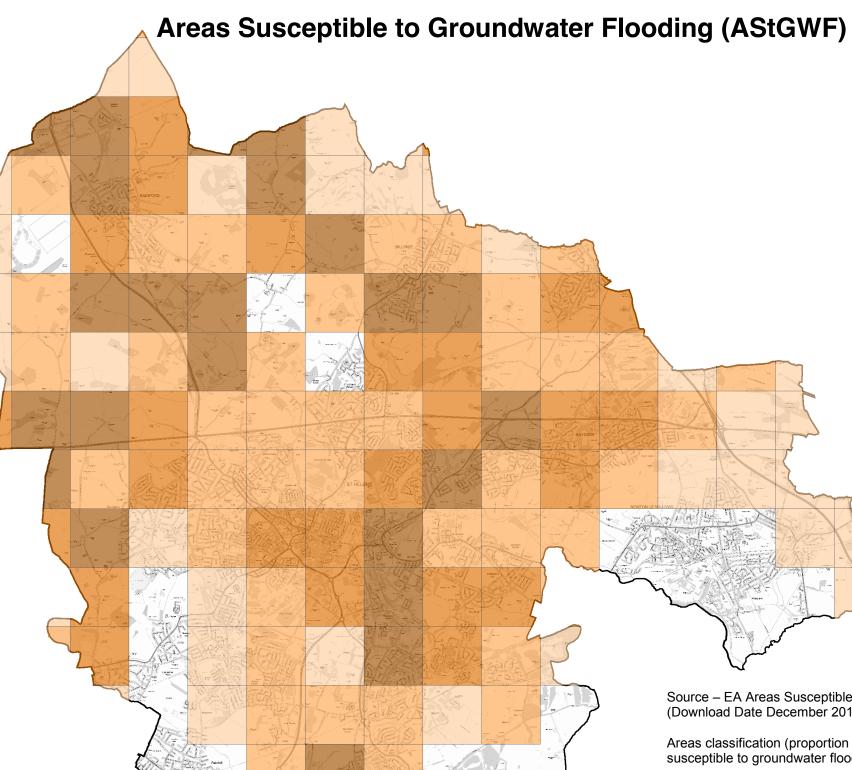


Abandoned Foul S	LEGEND		
	Surface Water Combined		
	Public Sewer		
	Rising Main		
	Sludge Main → Overflow		
	→ Water Course → Highway Drain		
All point assets follow t	he standard colour convention:		
red - combined	blue - surface water purple - overflow Side Entry Manhole		
<sup>HS</sup> Head of System	Outfall		
<ul> <li>Extent of Survey</li> <li>Rodding Eye</li> </ul>	Screen Chamber Inspection Chamber		
Inlet	Bifurcation Chamber		
<ul> <li>Discharge Point</li> <li>Vortex</li> </ul>	<ul> <li>Lamp Hole</li> <li>T Junction / Saddle</li> </ul>		
PE Penstock	<ul> <li>Catchpit</li> <li>Valve Chamber</li> </ul>		
<sup>₩0</sup> Washout Chamber <sup>₩</sup> Valve	Vent Column		
Av Air Valve	<ul><li>Vortex Chamber</li><li>Penstock Chamber</li></ul>		
<ul> <li>Non Return Valve</li> <li>Soakaway</li> </ul>	Network Storage Tank		
<sup>GU</sup> Gully	Sewer Overflow		
<sup>CA</sup> Cascade	Ww Pumping Station		
HA Hatch Box	<ul><li>Septic Tank</li><li>☑ Control Kiosk</li></ul>		
<sup>OI</sup> Oil Interceptor <sup>SM</sup> Summit			
<ul> <li><sup>DS</sup> Drop Shaft</li> <li><sup>OP</sup> Orifice Plate</li> </ul>			
MAN	NHOLE FUNCTION		
FO	) Foul		
sw			
co ov	<ul><li>Combined</li><li>/ Overflow</li></ul>		
s	SEWER SHAPE		
CI Circul: EG Egg	lar TR Trapezoidal AR Arch		
EG Egg OV Oval	AR Arch BA Barrel		
FT Flat To	op HO HorseShoe		
RE Rectar SQ Squar			
	WER MATERIAL		
AC Ast BR Brid	bestos Cement ck		
	ck lyethylene		
RP Rei	inforced Plastic Matrix		
	ncrete ncrete Segment Bolted		
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## **Appendix H**

LOCAL FLOOD RISK MANAGEMENT STRATEGY GROUNDWATER FLOODING MAPS

### **Appendix A Figure 3**



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Source – EA Areas Susceptible to Groundwater Flooding (Download Date December 2016)

Areas classification (proportion of each 1km square that is susceptible to groundwater flood emergence):

